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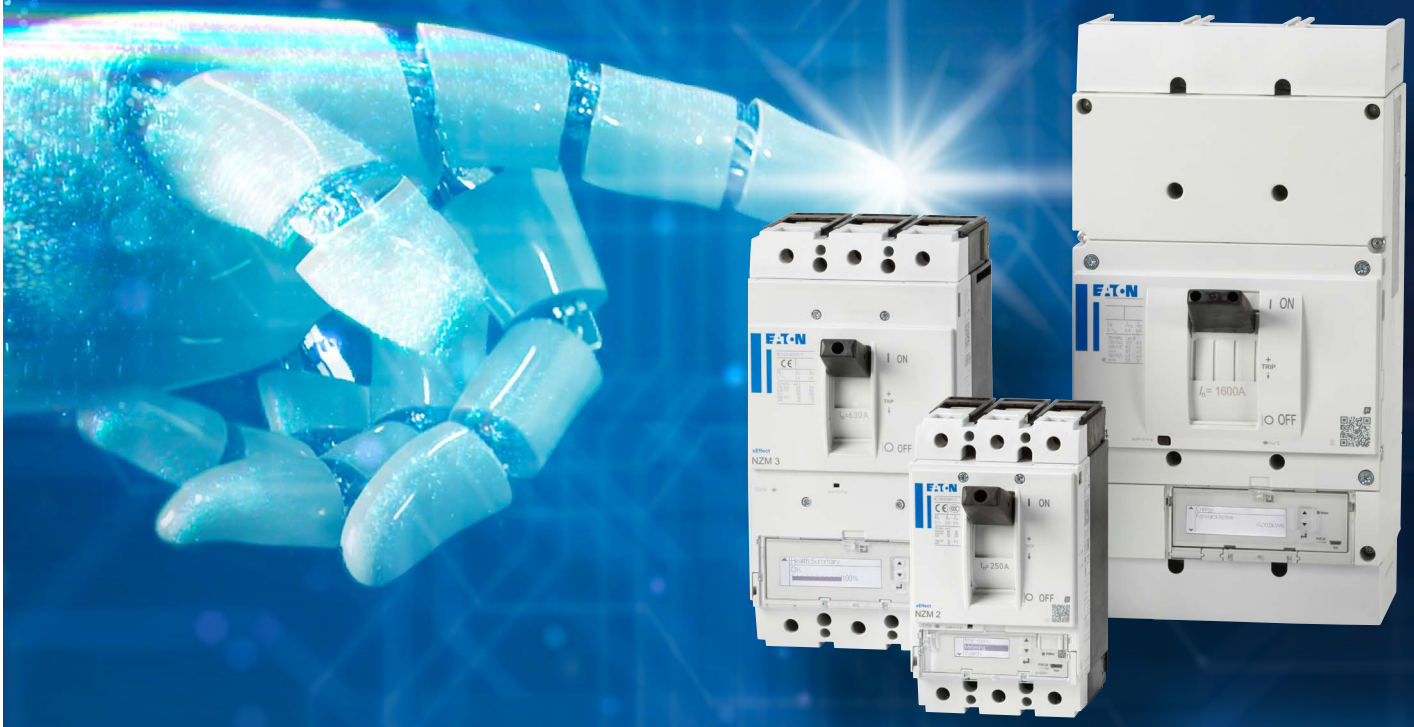
MOELLER
SERIES

The future starts now



The new digital NZM
compact • reliable • innovative
Catalog 2024

EATON
Powering Business Worldwide

Compact circuit breakers, switch disconnectors

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1230PIC-785 Symbolphoto

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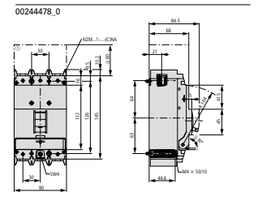

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Thinking ahead.
Shaping the future.

- switch
- protect
- control
- measure
- communicate

The energy supply and distribution systems of tomorrow have to contend with multiple competing demands. And Eaton has the right products to meet these challenges. Because Eaton, as a global leader in many technology areas, understands what panel building is all about.

For Eaton, future-oriented energy management means: to tackle complex tasks head-on with smart, simple solutions; to develop products that cover a broad range of applications and to provide all markets and sectors with the necessary systems for ensuring a safe, reliable and efficient energy future.

Eaton's product range leaves nothing to be desired, from the big picture down to the smallest detail:

- **xEnergy Elite** offers globally proven modular switchgears for a wide range of building and indust rial applications up to 7500 A
- With **xEnergy** Eaton is able to offer safety-tested switchgear systems for power distribution systems up to 5000 A
- Eaton's new **digital NZM circuit breakers** are universally suitable for rated currents from 20 A to 1,600 A; they are now also equipped with the innovative **PXR electronic release** technology

xEnergy Elite

Low Voltage Motor Control and Power Distribution solutions up to 7500A

The xEnergy Elite motor control and power distribution centers are offering great flexibility to design and configure according your specific needs helping to ensure it is built for your application. The complete design is based on a very robust galvanized frame. This base frame offers high stability and superior earthing capabilities and will last for a lifetime.

You can specify different sizes of copper or aluminum busbars; air insulation or epoxy coating; top or bottom cable entry; internal degree of protection;
and fuse or breaker solutions. Plus, its optimized footprint helps improve your overall bottom line. Space inside buildings and industrial facilities is at a premium. We understand that you would rather use that valuable space for your process, so we looked at the best ways to design our electrical equipment to maximize your space savings.

xEnergy Main

Low-voltage power distribution systems up to 5000 A

The xEnergy switchgear system has been designed to meet demands that are constantly growing: This makes it ideal for building infrastructure up to 5,000 A. Every function block has been carefully and systematically calibrated, from the switchgear and mounting technology to the enclosures and the requisite software. You will not only get safety-tested switchgear that represents the state of the art – you will also save time, money and space.

xEnergy combines maximum safety with easy planning:

- xEnergy fully complies with the IEC 61439 standard.
- To make the planning and assembly of an xEnergy system as easy as possible, we offer our established planning tool, the xEnergy configurator, free of charge.

The NZM series – circuit breakers up to 1600 A

Best in class

Eaton's NZM series circuit breakers cover rated currents of 20 to 1600 A – with only four frame sizes. And they are also optimally matched to each other. The wide range of possible applications covers every need. Eaton took a close look at what customers really want and designed the product accordingly.

What stands out, for example, is the comprehensive system of accessories, which can be individually assembled and easily installed in line with specific application requirements. The same goes for the flexible terminals, which offer increased safety for operators thanks to the variety of available covers.

The circuit breakers are thus suitable for universal use – from small distribution boards to machine controls and motor-starter combinations, and all the way to large power distribution systems with a short-circuit breaking capacity of up to 150 kA.

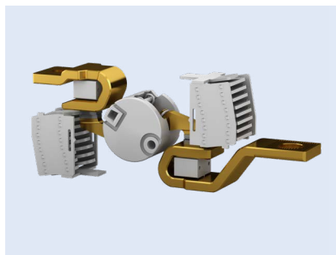
Full performance, compact design

The new digital NZM circuit breakers combine full performance with a compact design. The circuit breakers and accessories have been designed in such a way that their function, assembly and handling are the same throughout, in order to make your work as simple as possible.

Various types of releases are available, including cost-effective versions with bimetallic strips and models with communications-enabled digital electronics, which can take on a variety of protective functions. This makes them suitable for use in both AC and DC networks – from cable protection to the protection of motors, generators and transformers. With switch-disconnectors up to 1600 A, implementing applications such as main switches, emergency power-off switches and coupler switches is quick and simple.

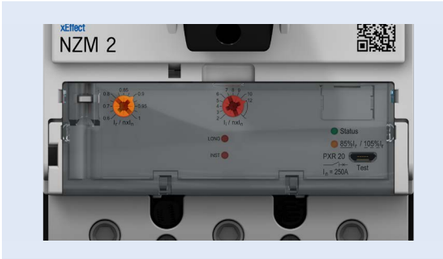
Despite their slim design, the NZM circuit breakers can handle loads with rated currents up to 1600 A, and they can safely switch off short-circuit currents up to 150 kA.
The innovative switching technology with double-break contacts helps to speed up the switching process.
In the event of a short circuit, the special design and the selected materials will generate repulsive magnetic forces that fling open the contacts in a fraction of a sine wave.

Switching capacities up to 150 kA and operating voltages up to 690 V pose no problem at all. At the same time, thanks to their optimal rate of power loss, the devices have a positive impact on the size of the control panel. The digital NZM circuit breakers are suitable for use in even the toughest environments, such as mining (up to 1000 V AC), renewable energy (up to 1500 V DC) and other power-intensive applications with high switching capacities at 690 V AC (e.g. data center, marine and renewable energy applications etc.).

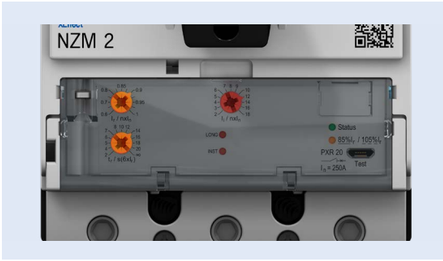


Circuit breakers offer comprehensive protection:

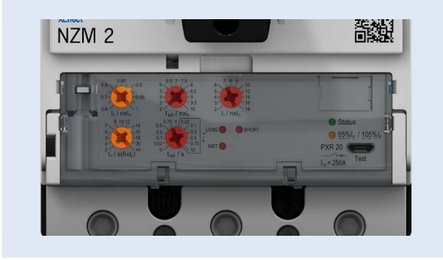
They protect entire systems while offering many additional functions



1. The NZM protects systems
as well as cables across all levels, from the main distribution board all the way to the load itself.
See page 28



2. The NZM protects motors
as well as motor-starter combinations and input wiring against overloads and short circuits.
See page 29



3. The NZM offers full-range protection
and selective protection for many applications.
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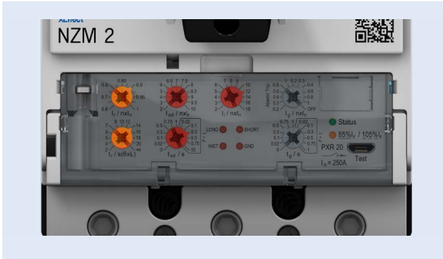
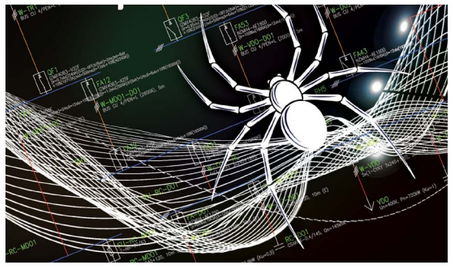
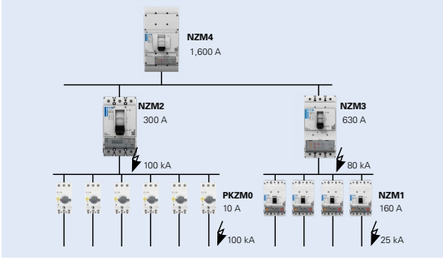


4. The NZM offers earth-fault protection
with integrated alert and trip functions as well as Arcflash Reduction Maintenance System™ and ZSI.
See page 30



5. The NZM offers selectivity and backup protection
against excessive short-circuit currents.
See page 31



6. The NZM offers zone selectivity and protection against electric arcs
with the patented Arcflash Reduction Maintenance System™.
See page 32

7. The NZM offers protection against residual currents
for universal mounting, or for mounting directly on the circuit breaker.
See page 33

8. The NZM protects DC systems
either as a circuit breaker with thermo-magnetic release, or as a switch-disconnector.
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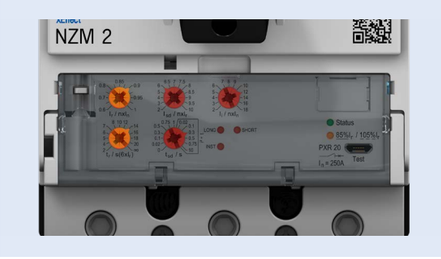

9. The NZM protects special applications
with high switching capacities at 690 V AC, at high frequencies, in IT networks, and at 1000 V AC.
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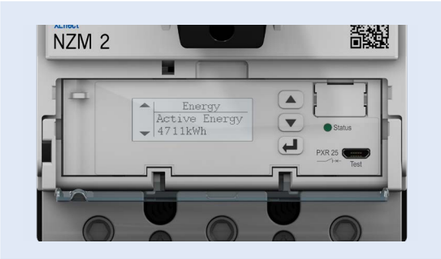


10. The NZM offers protection and ISO 50001
energy metering with Class 1 accuracy* in accordance with IEC 61557-12.
See page 38

Which release provides the right type of protection?

	TMTU				PXR10	PXR20			PXR25		
Release	**-A**	**-AF**	**-M**	**-S**	**-AX**	**-MX**	**-VX**	**-VX...-T**	**-PX**	**-PX...-TZ(TAZ)**	**-PMX**
T = Thermomagnetic E = Electronic	T	T	T	T	E	E	E	E	E	E	E
Protective features											
Overload protection	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	-	-	-	-	-	-	✓	✓	✓	✓	-
Non-delayed short-circuit protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Earth-fault protection	-	-	-	-	-	-	-	✓	-	✓	-
Arcflash Reduction Maintenance System™ maintenance mode	-	-	-	-	-	-	-	-	-	✓	-
ZSI zone-selective interlocking	-	-	-	-	-	-	-	-	-	✓	-
Additional functions											
Suitable for DC protection	✓	-	-	-	-	-	-	-	-	-	-
USB interface	-	-	-	-	✓	✓	✓	✓	✓	✓	✓
Current measuring (data readout)	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Comprehensive data collection, including Class 1 energy metering*	-	-	-	-	-	-	-	-	✓	✓	✓
Communications-enabled	-	-	-	-	-	✓	✓	✓	✓	✓	✓
Total harmonic distortion (THD)	-	-	-	-	-	-	-	-	✓	✓	✓
Harmonic content	-	-	-	-	-	-	-	-	✓	✓	✓

*For further information please contact your Eaton sales person.

Is a thermo-magnetic or an electronic release the better option?

The right protection for the task at hand

Thermo-magnetic trip units offer protection against overloads and short circuits. Electronic releases, meanwhile, make it possible to fine-tune the protective effect and to enhance it exponentially. On the one hand, electronic systems trip much more flexibly and precisely thanks to the use of digital electronics. On the other hand, by recording the data digitally, they also open up new possibilities for analytics and predictive maintenance. The most important technical aspects of the two types of releases are explained in detail below.

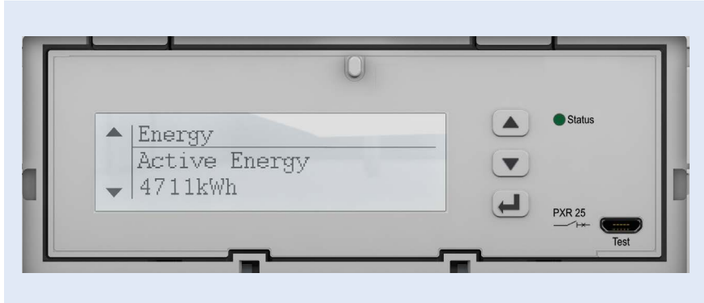
Thermo-magnetic overcurrent releases
Thermo-magnetic releases are the basic release mechanism for protection against overloads and short circuits. This type of release is ideal for cost-effective system designs up to 500 A. It is suitable for use in three-phase networks, AC networks and DC networks as well as for 400 Hz applications.

Thermal releases
A so-called bimetallic strip is used as the release element in thermally (current- dependent) delayed overload releases. This bimetallic strip is composed of at least two different metals with different coefficients of thermal expansion. The coefficient of thermal or linear expansion indicates the expansion of an object at a temperature increase of 1 K. When a rotor stalls, for example, the motor will draw more current. As a result of this increased current consumption, the current-carrying components of the motor-protective circuit breaker will experience a greater increase in temperature. This means that the metal with the greater coefficient of thermal expansion will expand at a higher rate, causing the bimetallic strip to start bending. This bending results in the release of the internal breaker mechanism, thereby tripping the motor-protective circuit breaker. The circuit breaker's main contacts will then open, which interrupts the supply of power to the motor, so that the corresponding motor fault can be repaired without danger. Once the motor-protective circuit breaker is switched back on, the motor will again start up.

Magnetic releases
In a circuit breaker, a magnetic overload release performs the short-circuit tripping function. This release works based on the principle of an electromagnet and a current coil. This current coil is not energized by a separate voltage source – instead, the main current flows directly through it. In the event of a short circuit, a large overcurrent will flow through the current coil. The resulting magnetic field will pull the armature into the coil, meaning it will then hit the moving contact piece. This momentum, together with the dynamics of the short-circuit current itself, will cause the contacts to open abruptly, thereby safely disconnecting the short-circuit current. The breaker mechanism will be released simultaneously. As a result, the circuit breaker will remain in the "OFF" position after the short-circuit current has been switched off.

Ambient temperature compensation
The NZM1 and NZM3 type A releases are not temperature compensated. The NZM2-A and all NZM-M motor-protective releases compensate the ambient temperature by means of an additional bimetallic strip. This compensation significantly reduces the impact of the ambient temperature on the functioning of the thermal release, which in turn improves the current-carrying capacity.

The electronic releases have been equipped with a microprocessor to ensure improved operational continuity.

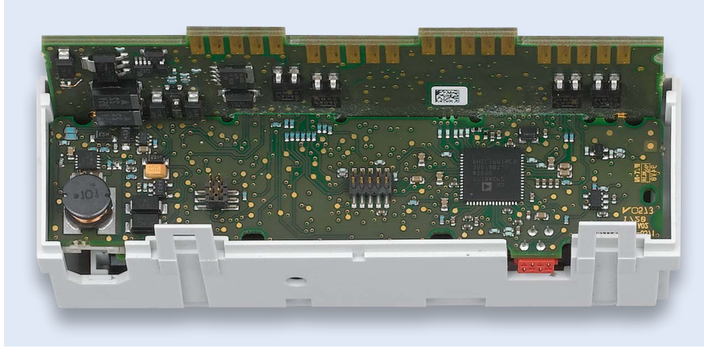


Electronic trip units
The digital electronics are controlled by the microprocessor, making it possible to determine the values of the load current that is being monitored. In contrast to analog electronic systems, the digital electronics will correctly evaluate any harmonics occurring in the network to prevent undesired early tripping. This helps to avoid unnecessary downtime.

Dedicated components simulate a thermal memory even when no current is present and the circuit breaker has tripped due to load overload. This ensures the reliable protection of the connected equipment – even if the cooling-down phase prior to the system restart was too short.

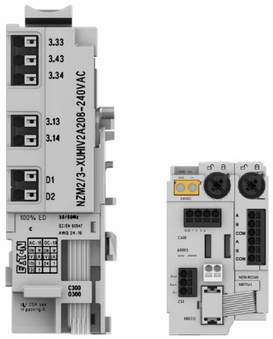
The proper functioning of the electronic components can be checked during protection via a run-in test. Thermocouples ensure the safe tripping of the circuit breaker in the unlikely event that the electronic components overheat.

Redundant safety
A parallel mechanical solution ensures maximum safety in the case of very high short-circuit currents, as the hinged armature functions as an additional magnetic release. This release will trip within only a few milliseconds.



Power Xpert Release

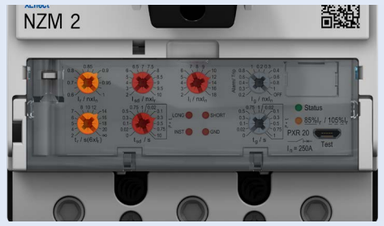
The next generation of electronic releases – now also available for the NZM



With the Power Xpert Release (PXR) Eaton has developed a new platform for trip units. This technology has already been integrated in the IZMX series of air circuit breakers, and is now also available for the compact circuit breakers of the NZM series.

The PXR is a powerful trip unit for professional users. Our customers' greatest possible benefit is always our main priority. Therefore, the PXR combines easy handling across all frame sizes with state of the art technology, a wide range of practical functions and, as always, a proven safety record.

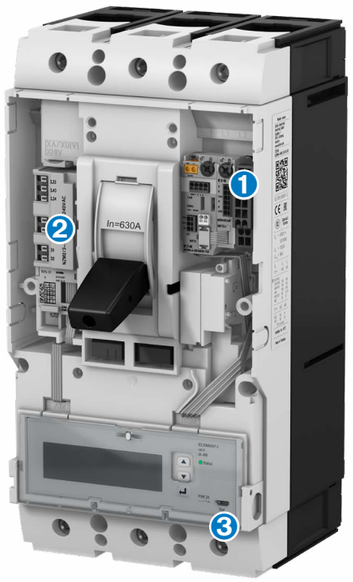
The PXR technology makes it possible to configure and test the circuit breakers from a PC via a USB port. This makes it very easy to access the information generated by the switchgear, to save the test data and to print it. This is the fastest and most convenient way to continuously improve control and maintenance systems. All sensitive data and settings are password-protected to prevent unauthorized access.



Improved lifecycle management through digital circuit protection

What does lifecycle management mean and what are the benefits for users?
Different approaches from Eaton and their advantages and benefits are discussed in this white paper.

Convincing in every way



Saving our users time and offering them the broadest possible range of applications – these were the goals Eaton had in mind while developing the Power Xpert Release platform.

❶ As such, we have equipped the PXR with a consistent design and clear menu navigation that will simplify your day-to-day work. With the PXR, communications are similarly easy: The many available communication modules for various bus systems allow for high-performance connections in line with the respective system requirements. Additionally, the integrated Modbus RTU connection also saves space during installation.

The new, fully integrated control and measurement technology creates additional benefits for customers

❷ The integrated relays inside the voltage release enable the control of any associated components, alongside the display of operating states (such as alert notifications), the control of remote operators and motor-starter combinations, and much more.

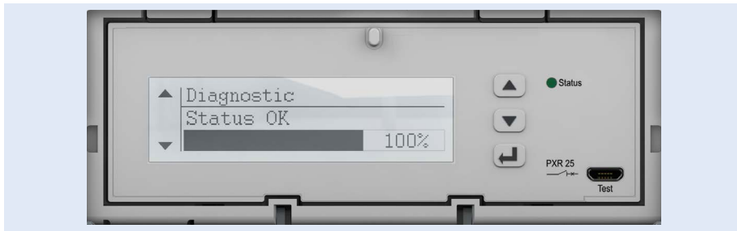
❸ The USB interface allows for easy connection to a PC to change the settings, conduct analyses or launch one of the test function.

The Rogowski coil transformer supports ISO 50001 energy management with Class 1 energy metering* in accordance with IEC 61557-12.

The PXR25 premium version with display

With the PXR25 premium version (NZM....PX/PMX...), you can keep everything in sight. For intuitive handling and to make configuration even easier, the PXR25 is equipped with a high-resolution display. You can enter the desired settings via this display. You can choose between protection settings and soft settings (additional settings). The
settings of PXR switches can also be easily adjusted by using the Power Xpert Protection Manager (PXPM) software for PC.
With the PXR20 version, you can adjust the protection settings using the rotary heads on the circuit breaker itself, while the soft settings can be adjusted using the PXPM software.

*For further information please contact your Eaton sales person.



What the PXR is capable of

The most important benefits and features at a glance

One design for all products
The consistent design for all product groups and the clear, ergonomic arrangement of the various elements ensures that the operation is the same operation and configuration of the PXR across the whole range of compact and open circuit breakers.

Now also with LED light for status and overload indication
A green-red dual LED indicates the current status: In start-up mode, the LED is permanently green. Green flashing indicates normal operation. Red flashing indicates an error in the electronic trip unit (tripping unit). The overload LED indicates the load status of the circuit breaker.
This warning can also be transmitted via the integrated communications. The PXR20 is fixed at 80 % and 105 % of I_r. The PXR25 has same default-values as the PXR20, but in this case they can be adjusted as required.

Everything under control – thanks to the high-resolution display
The high-quality, full graphic display features a premium pixel matrix for enhanced contrast and brightness. The uniform menu navigation has been designed for maximum user-friendliness.

Always the right setting
The new NZM is fully adjustable over an extended range. The customary PZ2 screwdriver can still be used. The VX trip unit of the NZM2 can now also be set for the instantaneous release range. In addition the NZM2 now comes with optional ground fault protection.

The PXR – a real knack for connectivity
The PXR electronic release uses the modern communications platform provided by the internal Modbus RTU module, with possible connections to numerous systems such as EtherNet/IP™, EtherCAT®, Profinet and SmartWire-DT.

New modules that make things easier

Interface module
This module is used to detect the status of the circuit breaker by means of photoelectric light barriers, and for connection to enhanced functional interfaces. Each version has been specifically adapted to the respective circuit breaker type. A 24 V DC screw terminal supplies the tripping unit with power. Photoelectric sensors detect the respective device status (on/off/tripped) and relay it via the communication connection. In the event of a short circuit, zone selectivity ensures a faster and more precise shutdown. In addition, the module can be used to connect an internal Modbus RTU module, to remotely operate the Arcflash Reduction Maintenance System™ maintenance mode.

The internal Modbus RTU module
A Modbus RTU connection can be integrated internally, so that no external communication components are required. The connection to a superordinate system saves space and allows for the quick and cost effective transmission of data. As a result, your system will be optimally prepared for all Industry 4.0-related tasks. The internal Modbus RTU module may also be used to connect to any external communication modules.

Relay module
The relay module contains two programmable relays, in addition to established comp onents such as the undervoltage release. These relays can be used, for example, for the remote control of drives or to control motor starters. They are equally suitable for alert notifications or status messages.

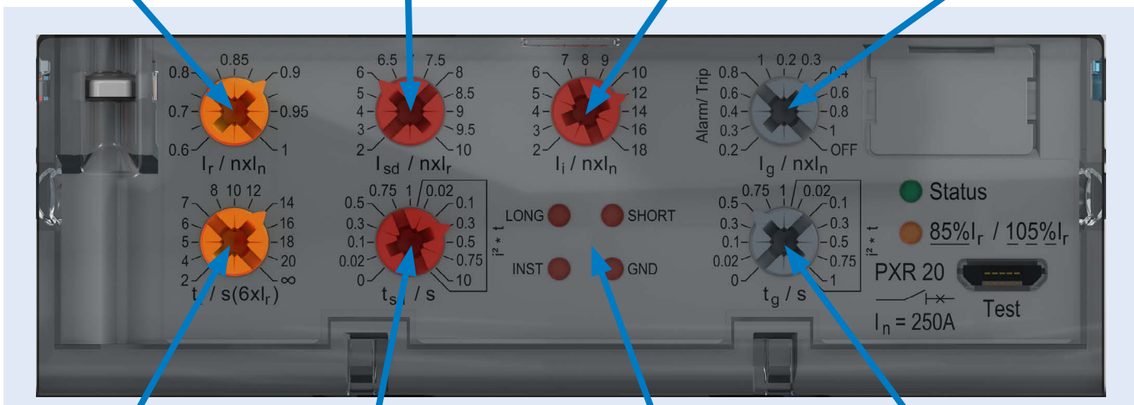
How to correctly adjust the PXR

Overload release I_r
now with extended 13-point adjustment range (from 0.4 to 1 x I_n) .

Delayed short-circuit release I_{sd}
To ensure the selectivity of the mains connection, the circuit breaker will trip after the set delay time t_{sd}.

Non-delayed short-circuit release I_i
The threshold value can be set between 2 and 18 x I_n. The I_i value refers to the rated current I_n.

Earth fault protection I_g
Should excessive earth impedance prevent the tripping of the short-circuit release, the earth fault protection will automatically issue an alert and and switch off the device.



Time lag t_r
Stipulates the time lag after which an overload of 6 x I_r causes the device to trip. Adjustable in increments of t_r = 2 to 20 or ∞.

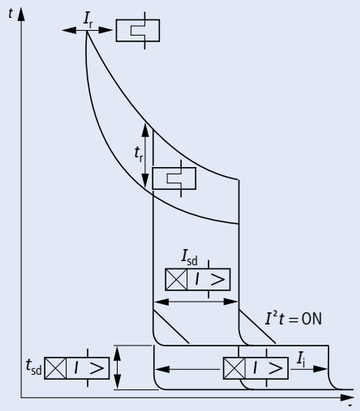
Time delay t_{sd} (with reference to I_{sd})
Adjustable in 7 steps, from 0 ms to 1,000 ms, for delayed tripping in the event of a short circuit.

"Tripped" message
If the circuit breaker trips, the corresponding LED will indicate the reason, e.g. an overload.

Time delay t_g (with reference to I_g)
Thanks to the time delay t_g = 0 ms to 1,000 ms, a selective shutdown is possible even in the event of an earth fault.

Electrical parameters

I_r	–	Overload release
t_r	–	Time lag
I_{sd}	–	Delayed short-circuit release
t_{sd}	–	Time delay
I_i	–	Non-delayed short-circuit release



Product overview – IEC / UL circuit breakers

TYPE			NZM1						
General information			**NZME1**	**NZMB1**	**NZMB1**	**NZMC1**	**NZMN1**	**NZMS1**	**NZMH1**
Number of poles			1	1	3, 4	3, 4	3, 4	3, 4	3, 4
Degree of protection									
of the device (operating elements)	IP20		✓						
of enclosure and bezel	IP40		-	-	✓				
of enclosures with rotary handles	IP66		-	-	✓				
Dimensions (WxHxD)		mm	30x145x84.5		3-pole: 90x145x84.5 4-pole: 120x145x84.5				
Ambient temperature	Storage at -40 °C to +70 °C		✓						
	Operation at -25 °C to +70 °C		✓						
Feed-in top or bottom			✓						
Mounting positions	In general		Vertical and 90° in all directions						
	NZM2 plug-in units		-	-	-	-	-	-	-
	NZM withdrawable units		-	-	-	-	-	-	-
Electrical properties in accordance with IEC 60947-2									
Rated operational current I_n at 40 °C	AC-1	A	16-125		20-160				
	AC-3 for S,M, MX, PMX	A	-	-	36-81				
	DC-1*	A	-	-	-	-	20-125	20-125	20-125
Rated operational voltage U_e	AC 50/60 Hz	V	230		440	690			
	DC*	V	-	-	-	-	450	450	450
For use in IT networks		V	-	-	440	690			
Rated insulation voltage U_i		V	400		690				
Rated impulse-withstand voltage U_{imp}	Main contacts	kV	6						
	Auxiliary contacts	kV	6						
Utilization category			A						
Overvoltage category			III						
Pollution category			3						
Protective separation in accordance with EN 61140			Yes (see datasheet)						
Switching capacity in accordance with IEC 60947-2									
I_{cu} / I_{cs} @ 50/60 Hz	240 V	kA	18 / 18	25 / 25	30 / 30	55 / 55	85 / 85	90 / 90	100 / 100
	400/415 V	kA	-	25 / 25	25 / 25	36 / 36	50 / 50	70 / 50	100 / 50
	440 V	kA	-	-	25 / 18.5	30 / 22.5	35 / 35	35 / 35	70 / 35
	525 V	kA	-	-	-	12 / 6	20 / 10	20 / 10	20 / 10
	690 V	kA	-	-	-	8 / 4	10 / 7.5	10 / 7.5	10 / 7.5
	1000 V	kA	-	-	-	-	-	-	-
I_{cu} / I_{cs} @ DC*	500 V (3P)	kA	-	-	-	-	15 / 15	-	30 / 30
	750 V (3P)	kA	-	-	-	-	-	-	-
I_{cm} @ 50/60 Hz	240 V	kA	36	53	63	121	187	198	220
	400/415 V	kA	-	53	53	76	105	154	220
	440 V	kA	-	-	53	63	74	77	74
	525 V	kA	-	-	-	24	40	44	40
	690 V	kA	-	-	-	14	17	20	17
	1,000 V	kA	-	-	-	-	-	-	-
Switching capacity in accordance with UL 489, CSA 22.2 No. 5-09									
	240 V 60 Hz	kA	-	-	35	-	85	-	-
	480/277 V 60 Hz / 480 V 60 Hz	kA	-	-	25 / -	-	35 / -	-	-
	600/347 V / 600 V 60 Hz	kA	-	-	-	-	-	-	-
Service life (AC-1)									
mechanical	max. 50 % tripping with XA/XU	O-C-O	20000						
electrical 50/60 Hz									
AC-1	415 V		7500				10000		
	690 V		-	-	-	5000	7500		
	1000 V		-	-	-	-	-	-	-
AC-3 for S, M, MX, PMX	415 V		-	-	-	-	7500	-	7,500
	690 V		-	-	-	-	5000	-	5000
Trip units									
thermo-magnetic TM	-A		✓	✓	✓	✓	✓	✓	✓
electronic (PXR)	-AX (LI)		-	-	-	-	-	-	-
	-VX (LSI)		-	-	-	-	-	-	-
	-VX...-T (LSI-G)		-	-	-	-	-	-	-
	-PX (LSI + energy metering)		-	-	-	-	-	-	-
	-PX...-TZ (LSI-G + energy metering + ZSI)		-	-	-	-	-	-	-
	-PX...-TAZ (LSI-G + energy metering + ZSI + Arc Flash Reduction Maintenance System™)		-	-	-	-	-	-	-
For motor protection									
TM	-M		-	-	✓	✓	✓	-	✓
PXR	-MX (LI)		-	-	-	-	-	-	-
PXR	-PMX (LI + energy metering)		-	-	-	-	-	-	-

* The DC values are only valid for thermo-magnetic releases (-A). Additional technical information can be found in the product datasheet on our website.

TYPE			NZM2						NZM3					NZM4		
General information			**NZMB2**	**NZMC2**	**NZMN2**	**NZMS2**	**NZMH2**	**NZML2**	**NZMC3**	**NZMN3**	**NZMS3**	**NZMH3**	**NZML3**	**NZMN4**	**NZMH4**	**NZML4**
Number of poles			3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Degree of protection																
of the device (operating elements)	IP20		✓						✓					✓		
of enclosure and bezel	IP40		✓						✓					✓		
of enclosures with rotary handles	IP66		✓						✓					✓		
Dimensions (WxHxD)		mm	3-pole: 105x184x149 4-pole: 140x184x149						3-pole: 140x275x166 4-pole: 185x275x166					3-pole: 210x401x207 4-pole: 280x401x207		
Ambient temperature	Storage at -40 °C to +70 °C		✓						✓					✓		
	Operation at -25 °C to +70 °C		✓						✓					✓		
Feed-in top or bottom			✓						✓					✓		
Mounting positions	In general		Vertical and 90° in all directions						Vertical and 90° in all directions					Vertical and 90° in all directions		
	NZM2 plug-in units		Vertical and 90° right/left						Vertical and 90° right/left					-		
	NZM withdrawable units		Vertical and 90° left						Vertical and 90° left					Vertical		
Electrical properties in accordance with IEC 60947-2																
Rated operational current I_n at 40 °C	AC-1	A	20-300						250-630					630-1600		
	AC-3 for S,M, MX, PMX	A	81-196						196-437					544-1354		
	DC-1*	A	-	-	125-250	20-250	20-250	-	-	250-500	250-500	250-500	-	-		
Rated operational voltage U_e	AC 50/60 Hz	V	440	690					690					690		
	DC*	V	-	-	750	750	750	-	-	750	750	750	-	-		
For use in IT networks		V	440	690					690					See datasheet		
Rated insulation voltage U_i		V	690	A/M: 1000 AX/VX/MX/PX/PMX: 690					A/M: 1000 AX/VX/MX/PX/PMX: 690					690		
Rated impulse-withstand voltage U_{imp}	Main contacts	kV	8						8					8		
	Auxiliary contacts	kV	6						6					6		
Utilization category			A						A					AX, MX, PMX: A VX, PX: B		
Overvoltage category			III						III					III		
Pollution category			3						3					3		
Protective separation in accordance with EN 61140			Yes (see datasheet)						Yes (see datasheet)					Yes (see datasheet)		
Switching capacity in accordance with IEC 60947-2																
I_{cu} / I_{cs} @ 50/60 Hz	240 V	kA	30 / 30	55 / 55	85 / 85	100 / 100	150 / 150	150 / 150	55 / 55	85 / 85	100 / 100	150 / 150	150 / 150	50 / 33*	100 / 63*	125 / 63
	400/415 V	kA	25 / 25	36 / 36	50 / 50	70 / 70	150 / 150	150 / 150	36 / 36	50 / 50	70 / 70	150 / 150	150 / 150	50 / 33*	75 / 50*	100 / 50
	440 V	kA	25 / 18.5	30 / 22.5	35 / 35	65 / 65	130 / 130	130 / 130	30 / 22.5	35 / 35	65 / 65	130 / 130	130 / 130	35 / 26	70 / 50*	85 / 50
	525 V	kA	-	12 / 6	25 / 25	36 / 36	50 / 37.5	100 / 100	12 / 9	25 / 13	36 / 18	65 / 33	100 / 50	25 / 19	60 / 37*	65 / 50
	690 V	kA	-	8 / 4	20(1) / 5(2)	20(1) / 5(2)	20(1) / 5(2)	80 / 80	8 / 4	20 / 5	25 / 6	35 / 9	80 / 20	20 / 15	50 / 37	50 / 37
	1000 V	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I_{cu} / I_{cs} @ DC*	500 V (3P)	kA	-	-	30 / 7.5	-	60 / 15	-	-	30 / 30	-	70 / 70	-	-	-	-
	750 V (3P)	kA	-	-	30 / 7.5	-	60 / 15	-	-	30 / 30	-	70 / 70	-	-	-	-
I_{cm} @ 50/60 Hz	240 V	kA	63	121	187	220	330	330	121	187	220	330	330	105	275	275
	400/415 V	kA	53	76	105	154	330	330	76	105	154	330	330	105	187	220
	440 V	kA	53	63	74	143	286	286	63	74	143	286	286	74	187	187
	525 V	kA	-	24	53	80	105	220	24	53	80	143	220	53	143	143
	690 V	kA	-	14	40	40	40	176	14	40	53	74	176	40	100	105
	1,000 V	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Switching capacity in accordance with UL 489, CSA 22.2 No. 5-09																
	240 V 60 Hz	kA	35	-	85	-	150	-	-	85	-	150	-	85	100*	-
	480/277 V 60 Hz / 480 V 60 Hz	kA	25	-	35 / 35	-	100	-	-	42 / 42	-	100 / 100	-	42 / 42	65 / 65*	-
	600/347 V / 600 V 60 Hz	kA	18 / -	-	25 / -	-	50 / -	-	-	35 / 35	-	50 / 50	-	35 / 35	50 / 50	-
Service life (AC-1)																
mechanical	max. 50 % tripping with XA/XU	O-C-O	20000						15000				10000	10000		
electrical 50/60 Hz																
AC-1	415 V		7500		10000				5000				2000	3000		
	690 V		-	5000	7500				3000					2000		
	1000 V		-	-	-				-					-	-	-
AC-3 for S, M, MX, PMX	415 V		-	-	6500				2000					2000		
	690 V		-	-	5000				2000					1000		
Trip units																
thermo-magnetic TM	-A		✓	✓	✓	✓	✓	-	✓ ≤ 500 A	✓ ≤ 500 A	✓ ≤ 500 A	✓ ≤ 500 A	-	-	-	-
electronic (PXR)	-AX (LI)		-	-	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓
	-VX (LSI)		-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
	-VX...-T (LSI-G)		-	-	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓
	-PX (LSI + energy metering)		-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
	-PX...-TZ (LSI-G + energy metering + ZSI)		-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-
	-PX...-TAZ (LSI-G + energy metering + ZSI + Arc Flash Reduction Maintenance System™)		-	-	-	-	-	-		✓	✓	✓	-	✓	✓	✓
For motor protection																
TM	-M		✓	✓	✓	-	✓	-	-	-	-	-	-	-	-	-
PXR	-MX (LI)		-	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
PXR	-PMX (LI + energy metering)		-	-	✓	-	✓	✓	-	-	-	✓	✓	✓	✓	✓

*For further information please contact your Eaton sales person.
(1) We reduced the I_{cu} from 20 kA to 12 kA at 690 V for 4-pole according to Standard IEC 60947-2, but NZM devices are still capable of I_{cu} 20 kA at 690 V.
(2) In case of 4-pole version the I_{cs} is 3 kA at 690 V, except MX and PMX types.

Product overview – switch-disconnectors

TYPE			PN1/N1	PN2/N2	PN3/N3	N4	N2...–DC...	N3...–DC...	N4...–DC...	N4...–PV-NA
General information										
Number of poles			3, 4	3, 4	3, 4	3, 4	4	4	4	4
Degree of protection										
of the device (operating elements)	IP20		✓				✓			
of enclosure and bezel	IP40		✓				✓			
of enclosures with rotary handles	IP66		✓				✓			
Dimensions (WxHxD)		mm	3-pole: 90x145x84.5 4-pole: 120x145x84.5	3-pole: 105x184x149 4-pole: 140x184x149	3-pole: 140x275x166 4-pole: 185x275x166	3-pole: 210x401x207 4-pole: 280x401x207	140x184x149	185x275x166	280x401x207	
Ambient temperature	Storage at -40 °C to +70 °C		✓				✓			
	Operation at -25 °C to +70 °C		✓				✓			
Direction of current supply top or bottom			✓				✓			
Mounting positions	In general		Vertical and 90° in all directions				Vertical and 90° in all directions			
	with plug-in units		-	Vertical and 90° left	Vertical and 90° right/left	-	-			
	with withdrawable units		-	-	Vertical and 90° left	Vertical	-			
Electrical properties in accordance with IEC 60947-3										
Rated operational current I_n at 40 °C	AC-1	A	max. 160	max. 250	max. 630	max. 1,600	-			
	AC-22A, (AC-23 for (P)N...)	A	max. 160	max. 250	max. 630	max. 1,600	-			
	DC-22A (DC-21A for N…-S15-PV-NA)	A	-	-	-	-	250	550	1,600	1,200
Rated operational voltage U_e	AC 50/60 Hz	V	690	690	690	690				
	DC	V	-	-	-	-	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500
For use in unearthed networks		V AC	690	690	690	525	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500	N…-S1-DC: 1,000 N…-S15-DC: 1,500
Rated insulation voltage U_i		V	690	690	1000	1000	N…-S1-DC: 1,250 N…-S15-DC: 1,500	N…-S1-DC: 1,250 N…-S15-DC: 1,500	N…-S1-DC: 1,250 N…-S15-DC: 1,500	N…-S1-DC: 1,250 N…-S15-DC: 1,500
Rated impulse-withstand voltage U_{imp}										
	Main contacts	kV	6	8	8	8	N…-S1-DC: 8 N…-S15-DC: 10	N…-S1-DC: 8 N…-S15-DC: 10	N…-S1-DC: 8 N…-S15-DC: 10	N…-S1-PV-NA: 8 N…-S15-PVNA: 10
	Auxiliary contacts	kV	6				6			
Overvoltage category			III				III			
Pollution category			3				N…-S1-DC: 3 N…-S15-DC: 2	N…-S1-DC: 3 N…-S15-DC: 2	3	3
Safe electrical disconnection in accordance with IEC 60947-3			✓				✓			
Switching capacity in accordance with IEC 60947-3										
Rated short-circuit making capacity	I_{cm}	kA	2.8	5.5	25	53	-			
Rated short-time current	I_{cw}	kA								
	t = 0.3 s	kA	2	3.5	12	25	-			
	t = 1 s	kA	2	3.5	12	25	3.6	6.6	34 (0.1 s)	34 (0.1 s)
Rated short-circuit current I_q	With fuse upstream	A gG/gL A gR	PN1(N1)-63…125: 125 PN1(N1)-160: 160	PN2(N2)-160…250: 250	PN3(N3)-400…630: 630	PN4(N4)-630…1600: 2x800	A gR/gPV 200	A gR/gPV 2x250	-	-
	With fuse upstream	kA	100	100	100	100	-			
	400/415 V	kA	80	80	80	80	-			
	1000 V	kA	-	-	-	-	15	15	-	-
	With fuse downstream	A gG/gL A gG/gL	PN1(N1)-63…125: 125 PN1(N1)-160: 160	PN2(N2)-160…250: 250	PN3(N3)-400…630: 630	PN4(N4)-630…1600: 2x800	-			
	400/415 V	kA	100	100	100	100	-			
	690 V	kA	10	80	80	80	-			
Service life										
Mechanical		O-C-O	20000	20000	15000	10000	20000	15000	10000	10000
Maximum operating frequency		Operations / h	120	120	60	60	120	60	60	60
Electrical 50/60 Hz										
AC-1	415 V		10000	10000	5000*	3000	-			
	690 V		7500	7500	5000	2000	-			
	1000 V		-				-			
AC-3 ((P)N1: AC23)	415 V		7500	7500	3000	2000	-			
	690 V		5000	5500	2000	1000	-			
DC-22A (DC-21A for N…-S15-PV-NA)							1000	1000	500	500

Additional technical information can be found in the product datasheet on our website.
* This value is 3000 for all 630 A switch disconnectors

NS...-...NA				NS1-...-NA	NS2-...-NA	NS3-...-NA	NS4-...-NA
Circuit breaker				**max. 125 A**	**max. 250 A**	**max. 600 A**	**max. 1,200 A**
Rated peak-withstand current		U_{imp}					
Main circuits			V	6000	8000	8000	8000
Auxiliary circuits			V	6000	6000	6000	6000
Rated operational voltage		U_e	V AC	690	690	690	690
Max. rated uninterrupted current							
IEC/EN 60947-2 Annex L		I_n	A	125	250	600	1200
UL489/CSA 22.2 No. 5.1		I_n	A	125	250	600	1200
Overvoltage category/degree of pollution				III/3	III/3	III/3	III/3
Rated insulation voltage		U_i	V	690	1000	1000	1000
Switching capacity in accordance with UL 489, CSA 22.2 No. 5.1							
	240 V 60 Hz		kA	85	150	150	85
	480 V 60 Hz		kA	35	100	100	65
	600 V 60 Hz		kA	-	50	50	42
Products intended for the North American market have a different switching capacity							
Rated short-circuit making capacity	240 V 50/60 Hz	I_{cm}	kA	187	330	330	187
	400/415 V 50/60 Hz	I_{cm}		105	330	330	154
	440 V 50/60 Hz	I_{cm}	kA	74	286	286	143
	525 V 50/60 Hz	I_{cm}	kA	53	105	143	84
	690 V 50/60 Hz	I_{cm}	kA	17	53	74	74
Rated short-circuit breaking capacity $I_{CC} = I_{CU}$ in accordance with IEC/EN 60947-2 Annex L							
I_{cu} to IEC/EN 60947, switching sequence O-t-CO	240 V 50/60 Hz	I_{CS}	kA	85	150	150	85
	400/415 V 50/60 Hz	I_{CS}	kA	50	150	150	70
	440 V 50/60 Hz	I_{CS}	kA	35	130	130	65
	525 V 50/60 Hz	I_{CS}	kA	20	50	85	40
	690 V 50/60 Hz	I_{CS}	kA	10	20	35	35
I_{CS} to IEC/EN 60947, switching sequence O-t-CO-t-CO	240 V 50/60 Hz	I_{CS}	kA	85	150	150	43
	400/415 V 50/60 Hz	I_{CS}	kA	50	150	150	35
	440 V 50/60 Hz	I_{CS}	kA	35	130	130	33
	525 V 50/60 Hz	I_{CS}	kA	10	37.5	33	20
	690 V 50/60 Hz	I_{CS}	kA	7.5	5	9	18
Service life, mechanical (of which max. 50 % is tripped by the shunt/undervoltage release)		Switching operations		20000	20000	15000	10000
Maximum operating frequency		ops./h		120	120	60	60
Service life, electrical							
AC-1	400/415 V 50/60 Hz	Switching operations		10000	10000	5000	3000
	690 V 50/60 Hz	Switching operations		7500	7500	3000	2000
Total downtime in the event of a short circuit		ms		< 10	< 10	< 10	< 25 ≤ 415 V < 35 > 415 V

Additional technical information can be found in the product datasheet on our website.

TYPE		NZM1		NZM2		NZM3		NZM4
Internal accessories		NZM1... / N...	PN...	NZM2.../ N....	PN...	NZM3.../N....	PN...	NZM4... / N...
Auxiliary contacts	M22-(C)K...	✓	✓	✓	✓	✓	✓	✓
Trip-indicating auxiliary contacts	M22-(C)K...	✓	✓	✓	✓	✓	✓	✓
Early-make auxiliary contacts	NZM...XHIV...	✓	✓	✓	✓	✓	✓	✓
Undervoltage releases	NZM...-XU...	✓	-	✓	-	✓	-	✓
Undervoltage releases with relay module	NZM...-XU...2A...	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
Shunt releases	NZM...-XA...	✓	-	✓	-	✓	-	✓
Shunt releases with relay module	NZM...-XA...2A...	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
Interface Module	NZM...-XBSM	-	-	✓ (PXR)	-	✓ (PXR)	-	✓ (PXR)
External accessories								
Actuator								
With thumb grip		✓	✓	✓	✓	✓	✓	✓
Rotary handle, direct	NZM...XDV...	✓	✓	✓	✓	✓	✓	✓
Rotary handle with shaft extension	NZM...XTVD...	✓	✓	✓	✓	✓	✓	✓
Rotary handle, lateral	NZM...XS	✓	✓	✓	✓	✓	✓	✓
Rotary handle with side lever (UL/CSA)	NZM...SXH	-	-	✓	✓	✓	✓	✓
Rotary handle, at the rear	NZM...SXH	✓	✓	✓	✓	-	-	-
Remote operator (electrical)	NZM...XR...	-	-	✓	✓	✓	✓	✓
Residual-current protection								
Residual-current circuit breaker – mountable	NZM...XFI	✓	✓	✓	✓	-	-	-
Ground fault relay – cannot be mounted directly	ELR...	✓	✓	✓	✓	✓	✓	✓
Type of installation								
Fixed	NZM...	✓	✓	✓	✓	✓	✓	✓
Plug-in units	NZM...-SVE	✓	-	✓	-	✓	-	-
Withdrawable units	NZM...-AVE	-	-	-	-	✓	-	✓
Covers								
Cable lug cover	NZM...XKSAE	-	-	✓	✓	✓	✓	-
Terminal cover	NZM...XKSA...	✓	✓	✓	✓	✓	✓	✓
Phase isolator	NZM...XKP...	✓	✓	✓	✓	✓	✓	✓
Terminal cover	NZM...XKSFA...	✓	✓	✓	✓	✓	✓	-
Finger guard	NZM...XIPK...	✓	✓	✓	✓	✓	✓	-
Terminal type								
Screw-in/direct connection	NZM...XKS...	✓	✓	✓	✓	✓	✓	✓
Box terminal	NZM...XKC...	✓	✓	✓	✓	✓	✓	-
Connection at rear	NZM...XKR...	✓	✓	✓	✓	✓	✓	✓
Tunnel terminal	NZM...XKA...	✓	✓	✓	✓	✓	✓	✓
Control-circuit terminal	NZM...XST...	✓	✓	✓	✓	✓	✓	✓
Connection expansion	NZM...XKV...	-	-	-	-	✓	✓	✓
Module plate	NZM...XKM...	-	-	-	-	-	-	✓

Additional technical information can be found in the product datasheet on our website.

Type design of the basic devices

Type of switch

NZM	Circuit breaker
N	Switch-disconnector, can be operated and tripped remotely using a voltage release, with three switch positions I-+-0
PN…	Switch-disconnector, cannot be operated or tripped remotely, with two switch positions I-0
NS	Molded case switch, with integrated short-circuit protection

Switching capacity

B	Basic
C	Comfort
N	Normal
S	Strong
H	High
L	Limiter

Frame size

1	Frame size 1, up to 160 A
2	Frame size 2, up to 300 A
3	Frame size 3, up to 630 A
4	Frame size 4, up to 1,600 A

Number of poles

-	3-pole
-1	1-pole
-4	4-pole

N Z M N 3 - 4 - P X 6 3 0 - T A Z - N A (Example)

Release

-A	System protection, thermo-magnetic
-AF	System protection, thermo-magnetic, with fixed overload protection, only for devices ending in -NA
-M	Motor protection, thermo-magnetic
-S	Short-circuit protection / motor protection with overload release, magnetic
-AX	LI – system protection, electronic
-MX	LI motor – motor protection, electronic
-VX	LSI – selectivity and generator protection, electronic
-PX	LSI – selectivity and generator protection, electronic, with measuring equipment
-PMX	LI motor – motor protection, electronic, with measuring equipment

L – overload protection
S – delayed short-circuit protection
I – undelayed short-circuit protection
G – earth fault protection

Rated current

(Example)	
1.2	1.2 A
63	63 A
1,600	1,600 A
160/VAR	Variable neutral conductor protection Full protection in L1-L2-L3 and variable setting in N 0 %, 60 %, 100 %

Additional functions

-TAZ	Earth fault protection, maintenance mode Arcflash Reduction Maintenance System™, zone selectivity ZSI, NZM3 and NZM4 only
-TZ	Earth fault protection and zone selectivity ZSI, NZM2 only
-T	Earth fault protection

Suffixes

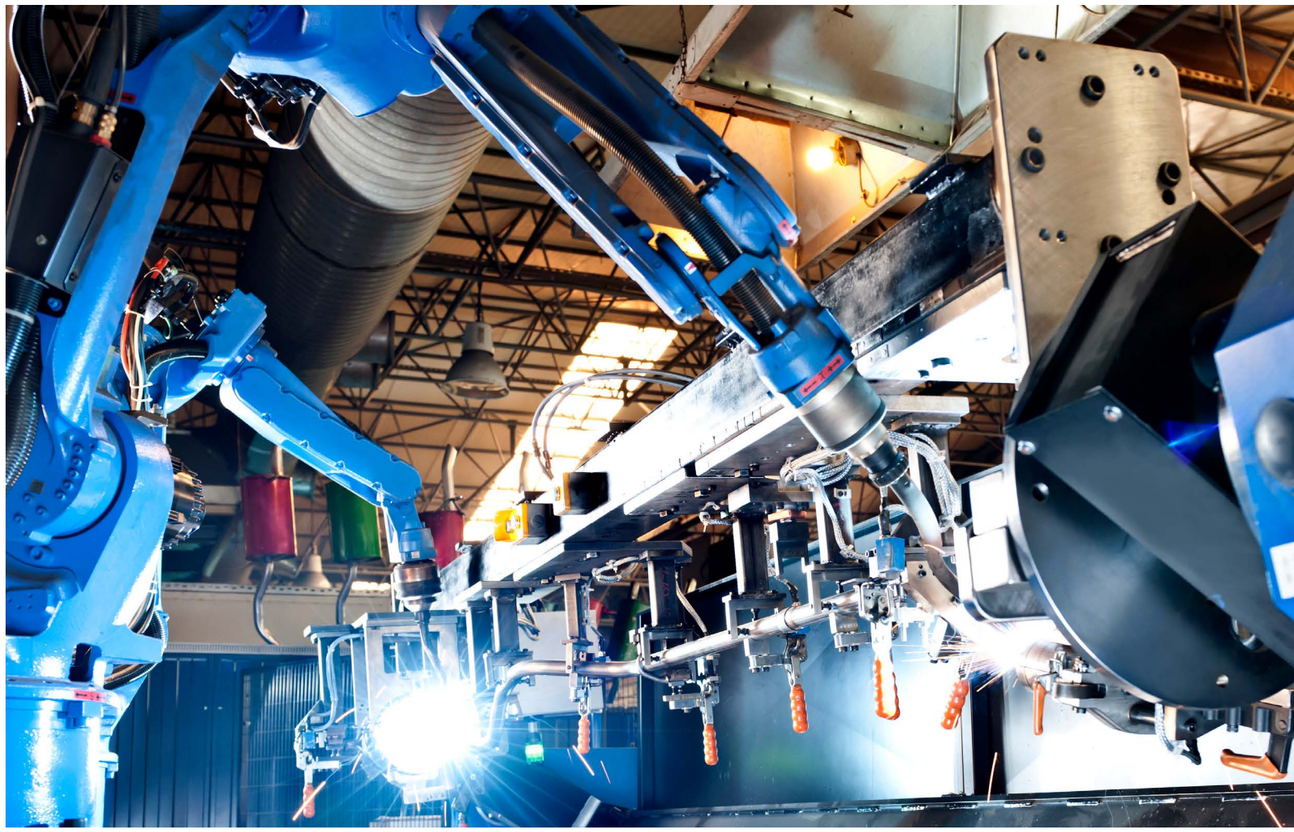
-BT	Box terminal
-NA	North America, UL-listed / CSA-certified
-CNA	North America, approved as UL/ CSA combination component
-SVE	Plug-in technology
-AVE	Withdrawable unit
-S1	1,000 V AC Version
-S1(S15)-DC (PV-NA)	DC device

Conformity to standards

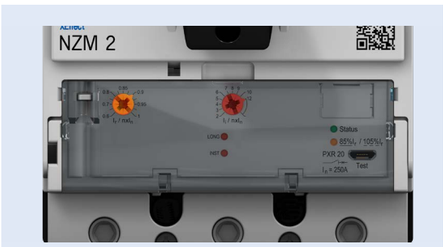
Circuit breakers for global use

All circuit breakers meet the requirements for global use. This also applies to the United States, Canada and the Chinese market, with UL, CSA and CCC (China Compulsory Certification) certifications.

In cooperation with the ship classification societies, Eaton is carrying out a series of tests in order to receive the following approvals: Lloyds Register of Shipping, Bureau Veritas, Det Norske Veritas, Polski Rejestr Statkow, China Classification Society, Germanischer Lloyd and Russian Maritime Register of Shipping.



System and cable protection
Across all levels

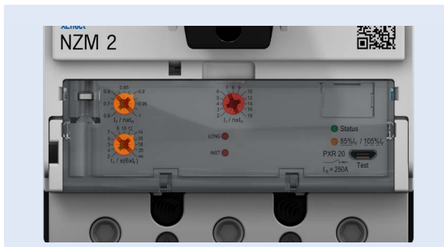


The NZM circuit breakers protect entire systems and cables across all levels, from the main distribution board all the way to the load itself.
Based on your requirements, you can choose between the thermo-magnetic version for standard applications and the electronic trip unit version with a wider setting range as well as diagnostic and test functions via USB.

The thermo-magnetic version for system and cable protection features a robust design and a bimetallic strip release that ensures overload protection for the setting range of I_r = 0.8 to 1 x I_n.
The magnetic release has a setting range of 6 to 10 x I_n.
In the electronic trip unit version, the setting range of the overload has been extended to I_r = 0.4 to 1 x I_n.
This means, for example, that a 250 A circuit breaker can safely operate rated operational currents down to 100 A.

This provides enhanced flexibility when it comes to selection and planning. The circuit breakers for system and cable protection can also be tested via the integrated micro-USB interface, using the Power Xpert Protection Manager (PXPM) software. Thanks to the integrated test protocol function, a report in PDF format can be easily generated.

Protection of motors and motor-starter combinations
in case of overload and short circuit events



With a range of 16 A to 1400 A, the NZM circuit breakers provide reliable protection for motors and input wiring in the event of overloads, short circuits and phase failure. To prevent the protective device from switching off during start-up peaks, the short-circuit releases can be set at up to 18 times the rated current. The extended setting range even protects energy-efficient motors with high starting currents.

The NZM motor-protective circuit breakers meet the requirements for tripping characteristics outlined in IEC/EN 60947-4-1 as well as the associated requirements for phase-failure sensitivity and phase-failure protection.

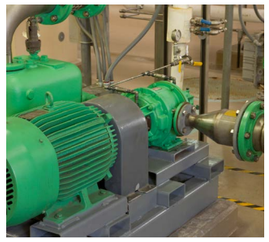
Motor-starter combinations can be controlled via the communication connection and the relay module (also in conjunction with an undervoltage release, for example).
DOL starters, reversing starters and circuits with heavy starting duty can all be implemented. The contactor coils can either be automatically controlled directly from the NZM, or manually via the communication connection.

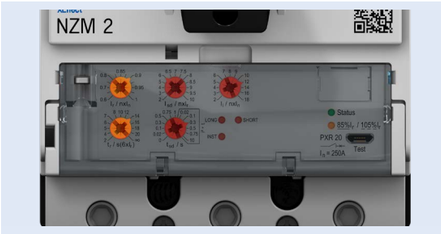
In the event of an overload, the relay module offers a sophisticated option for contactor release prior to the tripping of the NZM. As a result, temporary overloads of 110 % of I_n can be switched off and then automatically back on again without any need to trip or reset the NZM. Alternatively, the device can also be set to issue an alert only.

The devices intended for motor protection are all IE3/IE4-compatible, to prevent undesired tripping in energy-efficient motors. The new electronic releases have been further optimized for applications with high in-rush currents.

Full-range protection

For system protection, cable protection, selectivity and generator protection





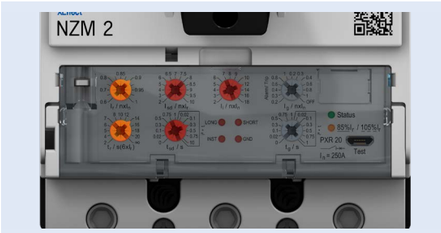
As an incoming circuit breaker, the NZM naturally also offers overload protection on the secondary side of the transformer. A version with time-delayed short-circuit releases is also available, to ensure the selectivity of the mains connection. This option is especially suitable if power is supplied via a transformer or a generator, and in IT and TN networks with long cables.

You can fully rely on the NZM circuit breakers, even if the generators struggle to produce between two and six times the continuous current in the event of a short circuit. The NZM will safely switch off even very low short-circuit currents within just a few milliseconds. If special tasks require it, the circuit breakers can be set so that short-circuit currents up to 10 times the rated current will be ignored for up to one second.

Thanks to the extended setting range of the full-range release, the devices can be optimally adapted to any application. Whether it is generator protection, the support of extremely long outputs with low short-circuit currents, or the protection of transformers in case of very high in-rush currents, the NZM circuit breaker can do it all.

Earth fault protection

With current-dependent short-time delay



Residual currents to earth are detected based on the core-balance principle by means of the integrated converters. The circuit breaker will trip or issue an alert in line with the selected settings, and the setting range can be set at 20 % to 100 % of the rated operational current. It is possible to delay the tripping by up to one second.

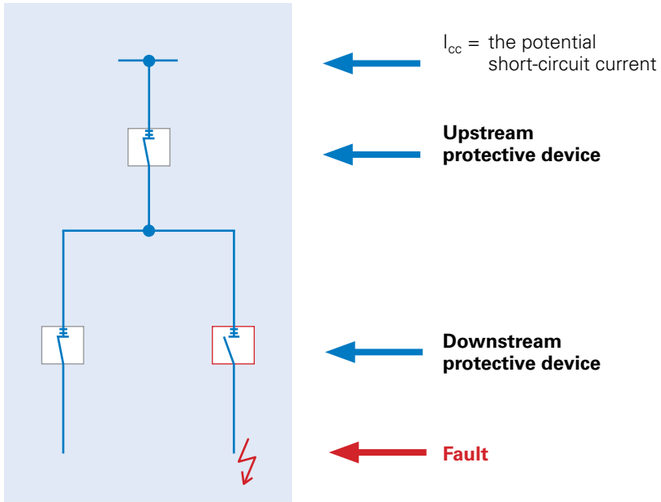
Selectivity and backup protection

For maximum supply security

Selective overload and short-circuit protection
A combination of two or more short-circuit protection devices (such as circuit breakers or fuses) is selective when only the device closest to the fault detects and interrupts the fault current and the upstream breaker(s) do not trip.

This ensures that branches of the distribution not affected by the fault will continue operation. The NZM circuit breakers are able to achieve selectivity even without the addition of any electronic short-time delay devices.

Selectivity viewed schematically



Backup protection against excessive short-circuit currents
Backup protection is provided if the upstream protective device is able to protect the downstream protective device against excessive short-circuit currents. If the short-circuit current exceeds the short-circuit capacity I_{cu} of the downstream circuit breaker, the up-stream circuit breaker will limit the current flow to ensure optimum protection of the system.
NZM frame sizes 1, 2 and 3 have a current-limiting effect. The take-over current I_B of the upstream circuit breaker, i.e. the current at which the latter trips, must not be greater than the I_{cu} of the down-stream circuit breaker. This ensures backup protection against all potential short-circuit currents.

Detailed information on selectivity and backup protection can be found in Eaton's "Selectivity, Backup Protection and Coordination Guide".

Zone selectivity and Arcflash Reduction Maintenance System™ maintenance mode

Precise disconnection of faults upstream from their location and protection against arc faults

Zone selectivity
Zone selectivity is the next stage in the concept of time selectivity. In contrast to time selectivity, any faults will be switched off instantaneously and at any point in the network. This keeps the energy that is being generated (I^2 x t) – and thus the thermal and dynamic system load – as low as possible.
For this purpose, the circuit breakers are connected to a signal cable. In the event of a fault, the signal cable ensures that only the circuit breaker located directly upstream of the fault (i.e. the circuit breaker that feeds into the short circuit) switches off immediately. This keeps that part of the system that has not been affected by the fault operational and thereby minimizes downtime.

Arcflash Reduction Maintenance System™
Our circuit breakers can be optionally equipped with our new, patented Arcflash Reduction Maintenance System™. In the event of an arc fault, this system ensures an immediate and accelerated shutdown.

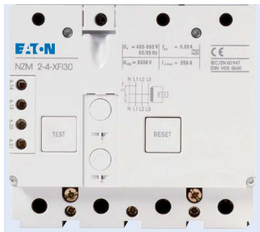
The disconnection is even faster than that effected by a non-delayed short-circuit release. This feature can either be activated directly at the circuit breaker or via an external switch, for example when maintenance personnel enter a hazardous area. No special wiring is required.

More safety when working on live electrical circuits

Safety is Eaton's top priority. Therefore, we offer additional safety functions that go beyond the standard requirements. In this white paper you can find out what advantages this has for users.

Residual-current protection

For universal mounting, or for mounting directly on the circuit breaker



For universal mounting
Eaton's new relay/transformer combinations cover operating currents from 1 A to 1800 A. The wide range of applications extends from general power distribution systems to individual motor feeders. The relay can detect and process residual currents between 30 mA and 5 A.

The scope of application of the individual relay/transformer combinations depends on the applicable regulations, and ranges from personnel and fire protection to general power protection for 1 to 4-pole networks.

Compact, safe, versatile...
... these are the qualities required of residual-current protection devices, especially in areas – such as installation boards – where space is limited. The measuring relay can be snapped onto a DIN rail as required. It forms a functional unit with the ring-type transformers, which are arranged along the power chain to save space.

For direct mounting on the circuit breaker
The residual-current release modules can be mounted flush with the bases of the NZM1 and NZM2 circuit breakers (in the case of the NZM1 also on the right). Eaton thus offers a compact product that is easy to install without the need for external auxiliary voltage.
The residual-current protection module of the NZM2 is fully independent of the mains voltage and can therefore be used for the purposes of personnel protection in Germany.
Both pulse-current and AC/DC-sensitive devices are available. For virtually any mains constellation, 3 and 4-pole versions are possible, with different rated residual currents ranging from 30 mA to 3 A (with time selectivity).

Protection of DC applications

For use as circuit breakers or switch-disconnectors

Circuit breakers DC applications
The NZM circuit breakers with thermo-magnetic releases can be used for DC applications. However, using the circuit breakers in DC environments alters their technical characteristics. As a result, the threshold value of the short-circuit release has to be adjusted. In addition, the short-circuit breaking capacity will also be affected.

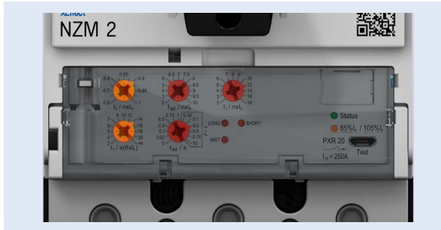
The NZM...-S07-DC circuit breaker has been designed specifically for use in battery applications. As such, the threshold value of the short-circuit release is set especially low to ensure reliable control of the low short-circuit currents in the battery banks.

Switch-disconnectors for DC applications
Our powerful range of switch-disconnectors for DC use comprises three frame sizes, from 160 A to 1600 A, for applications with 1000 V DC or 1,500 V DC. The devices are IEC 60947-3 and UL489B approved and can therefore be used worldwide. Together with the wide and versatile range of NZM accessories, the DC switch-disconnectors are the ideal choice for demanding DC applications, including (but not limited to) central inverters used in renewable energy systems.

The tested combination of switch-disconnector and 1 or 2-pole link set is especially powerful, and the perfect option for every type of connection situation and for environments with high ambient temperatures. Eaton can guarantee reliable derating values up to 70 °C. The DC switch-disconnectors can also be used without restriction in unearthed IT networks, provided the error case of a double earth fault can be ruled out by means of technical measures.

Protection for special applications

With high power density



Circuit breakers with high switching capacity at 690 V AC
The NZML2 and NZML3 circuit breakers complement the globally recognized NZM family and complete Eaton's offering for systems with high power density. High switching capacities at 690 V AC are not only required in mining, marine applications or the chemical industry; the new products have also been designed with renewable energy systems such as wind turbines in mind.

Our product portfolio covers virtually any demand: The NZML2 is available with up to 160 A, while the NZML3 covers the range up to 400 A. Both devices come with integrated electronic trip units. They offer a switching capacity of 80 kA at 690 V AC. The devices have been equipped with a communications interface and come in the same dimensions as our proven NZM2 and NZM3 circuit breakers. Users of the NZML series have the full range of NZM accessories at their disposal.

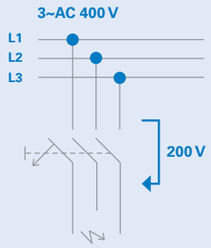
Main fields of application:
- Mining
- Shipbuilding
- Industrial applications
- Wind turbines
- Data centers

You can find more information in the Eaton brochure "The circuit breaker series NZML2 and NZML3 for high breaking capacities at 690 V."

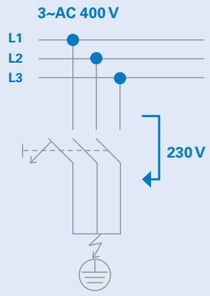
Using the NZM circuit breakers at 1000 V AC
With the tailor-made models for rated operational voltages up to 1000 V AC, we have further expanded the scope of application of our NZM circuit breakers and switch-disconnectors. These devices are particularly suitable for use in challenging environmental conditions, notably in the areas of mining, road tunnels, refineries, chemical plants and electric railways. Typical applications include high-power drives and general power supply systems for industrial applications with long supply lines.

Using the NZM circuit breakers in IT networks

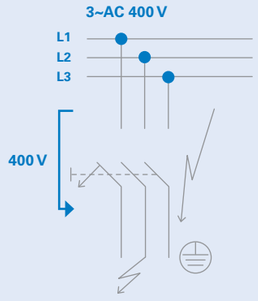
1. Faults between the phases



2. Earth fault (simple fault)



3. Earth fault (double fault)



All NZM circuit breakers can be used in unearthed IT networks, unless otherwise indicated. The following must be observed during project planning:

Why do I have to assume that the voltage in the IT system is √3 times the mains voltage?

Behavior in TN and TT systems
For circuit breakers in TN and TT systems, the three-phase short circuit to earth is the short circuit with the highest load. To determine the voltage present at each contact, the mains voltage has to be divided by √3.

Example:
In a TN-S system with 400 V AC, each circuit breaker contact switches only 230 V AC in the event of a three-phase short circuit to earth.
(400 V / 1.73).

Short circuit in the IT system
Short circuits between the phases are also possible in IT systems. In this case, however, the short circuit will be disconnected by two separate contacts inside the circuit breaker, so that each contact only has to switch off half the mains voltage (as illustrated in figure 1, each contact should switch 200 V AC). The short circuit between two phases represents a lower load for the circuit breaker than the three-phase short circuit to earth.

Double earth faults in IT systems
In IT systems, double earth faults are the short circuits with the highest possible loads. When planning for short circuits, it should always be assumed that a double earth fault will be present; this is also explicitly pointed out in IEC/EN 60947-2, Annex H. In case of a double earth fault, the full mains voltage will be applied to the circuit breaker contact in question (see figure 3 on the left). In this case, one contact alone has to switch off the entire chained voltage (mains voltage). Since the chained voltage is √3 times (1.73) the voltage to earth, the short-circuit breaking capacity in the IT network should be planned for as √3 the mains voltage.

Technical safety parameters
The NZM circuit breakers can be used in conjunction with undervoltage releases in order to calculate the safety-related parameters (e.g. $B10_d$ or $MTTF_d$). Detailed information can be found here:

Technical safety parameters
www.eaton.com/safety

Energy metering with the digital NZM

Measurement data for ISO 50001

With Class 1 energy-metering· accuracy in accordance with IEC 61557-12

Greater efficiency with ISO 50001
The EN ISO 50001 standard was defined at the international level to facilitate the implementation of in-house energy management systems. The most important aim of the standard is the sustainable reduction of energy costs, energy consumption and CO_2 emissions by means of organizational and technical changes. Both for globally connected companies and for small and medium-sized businesses, sound energy management can lead to enhanced cost transparency and cost savings, while also contributing to the protection of natural resources and to a better corporate image. Especially for power-intensive companies whose consumption exceeds 10 GWh, or whose electricity costs account for more than 14 % of the value added, the German Renewable Energy Sources Act harbors enormous cost reduction potentials in the form of lower energy taxes.

The importance of accurate metrics and analytics
Prerequisites for introducing an energy management system in accordance with ISO 50001 are accurate energy metrics, the identification of the main energy consumers and a full analysis of the company's energy costs. This creates a sound foundation for realizing concrete energy-efficiency improvements. Eaton offers a broad range of innovative products for monitoring, measuring and analyzing energy data.

ISO 50003 – new as of October 2017
Since October 2017, new energy-efficiency requirements have been in place following the publication of the ISO 50003 standard. From now on, companies with certified energy management systems will have to provide hard data to prove the energy-efficiency gains they have realized. With our innovative energy metering technology, we are able to support you in meeting the stricter certification criteria.

Product cost efficiency through precise measurement
To compete in today's markets, cost-optimized products must be manufactured. By measuring the energy requirements of production machines, the energy costs incurred for the production of the individual product can be precisely calculated. The more precise the measurement, the more precise the calculation of the proportional energy costs of the individual product. Especially when large production volumes and short cycle times come together, a very precise measurement is profitable, as incorrect values will otherwise falsify the cost calculation.

*For further information please contact your Eaton sales person.

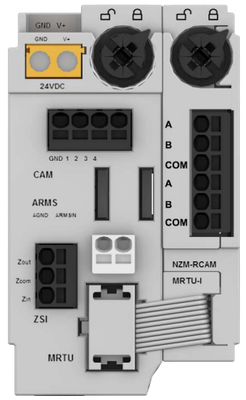
Communications

Effective energy management systems

Saving space – quick and safe connection
With the integrated Modbus RTU module, you will save space inside the control panel. In addition, the process of planning your system is now more flexible and cost-effective thanks to the modular interface module. This reduces the time and effort required for installation as well as the overall size of the control cabinet. The handling of the devices has also been simplified thanks to the new push-in terminals. This not only reduces the likelihood of errors, but also simplifies preparation and wiring and ensures that your installation concept meets the highest safety requirements.

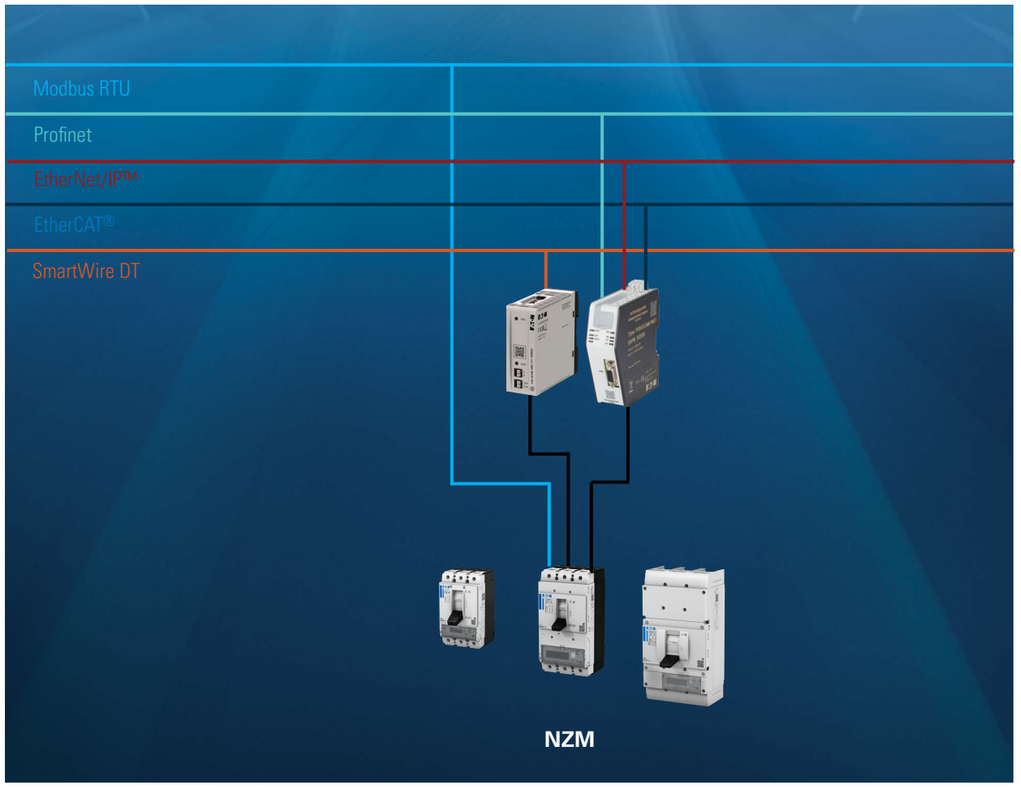
Centralized data collection – integration into existing systems
Eaton's centralized data collection system consolidates the operating data of the entire system to ensure their rapid transmission.
The operating data are collected in a uniform format by all IZMX air circuit breakers, all NZM compact circuit breakers and all other PXR modules. For you, this means that the amount of programming work required across the system will be much lower.
In addition, the ECAM module simplifies the integration of existing communications systems, such as EtherNet/IP™, EtherCAT®, Profinet and SmartWire-DT. Eaton has thus made it much easier to connect your existing architecture.

Full access at all times – conveniently with remote control
Via the integrated communications of the PXR and additional modules, such as a remote operator, motor-starter combinations etc., you will have full access to the circuit breaker at all times. The remote operator can be conveniently controlled via the communication connection in combination with the relay module. The relays can also be used to control other devices, e.g. automatic contactor releases at low overloads. You will thus benefit from a significant increase in security while saving time.



Everything at a glance

With the new, integrated communications platform



Reliable and efficient data collection, with Eaton's PXR circuit breakers and measurement and communication modules. Providing users with data in the required form and data format is a challenge, not least given the many different types of communications architectures used in industry today.

Eaton has answered this challenge by creating a variable topology of measuring points in order to meet the demands of users. Eaton offers a comprehensive range of communication interfaces to meet the demands of the market. Based on this structure, the data can be transferred to other communication platforms via various interfaces and gateways as required.

Features and measurement values of the PXR variants

	NZM...-AX...	NZM...-VX/MX...	NZM...-PX/PMX...
Power Xpert Release version	PXR10	PXR20	PXR25
Connectivity			
Test option / PXPM connection via USB	✓	✓	✓
Interface module	-	optional	✓
Internal Modbus RTU module	-	optional	optional
Relay module	-	optional	optional
Provision of the measured data			
Current			
In real time, value per phase and neutral conductor	✓	✓	✓
Average	✓	✓	✓
Asymmetry in %	✓	✓	✓
Min/max	✓	✓	✓
Voltage			
In real time, phase-phase / phase-neutral	-	-	✓
Asymmetry in %	-	-	✓
Min/max	-	-	✓
Frequency			
In real time	-	-	✓
Min/max	-	-	✓
Real/apparent/reactive energy Class 1*			
Total	-	-	✓
Forward	-	-	✓
Backward	-	-	✓
Net	-	-	✓
Real/apparent/reactive power Class 1*			
In real time	-	-	✓
Min/max	-	-	✓
Total harmonic distortion (THD)	-	-	✓
Harmonic content	-	-	✓
Power factor	-	-	✓
Maintenance information and notifications			
Service life indicator	-	-	✓
LED display	status, alert	status, alert, trip reason	status
LCD display	-	-	settings, alert, trip reason
Safety-related functions			
Arcflash Reduction Maintenance System™ maintenance mode	-	-	optional
ZSI zone-selective interlocking	-	-	optional
Thermal memory	✓	✓	✓
Ambient temperature compensation	✓	✓	✓

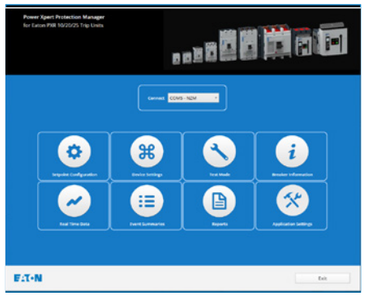
*For further information please contact your Eaton sales person.

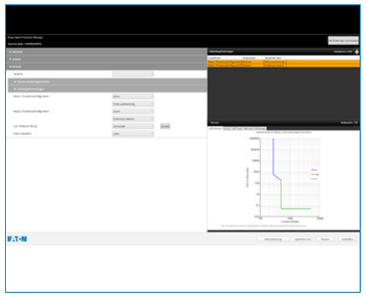
The universal PXPM software

One program for all Eaton devices with PXR electronics

Power Xpert Protection Manager

With the new PXPM software, Eaton has developed a universal program that will allow you to conveniently manage all Eaton PXR devices.





Main features:

- Configuration and settings
- Retrieval and evaluation of data
- Test function

With the PXR technology, configuring, controlling, protecting and testing the system architecture of your Eaton devices is easier than ever before, thanks to the Power Xpert Protection Manager. It is no longer necessary to manually identify the various devices, as the program automatically adapts to each. Guided and drop-down menus ensure that the configuration process is as user-friendly as possible. And the recorded data are always clearly displayed via a single screen.

The PXPM software speaks your language: Eaton provides you with a wide range of language packs; the system can either recognize the language of your computer automatically, or you can set it manually.

A wide selection of additional options allows you to select application-specific settings exactly as required:

- The protective function can be adapted and controlled via the display and by configuring the trip type.
- The waveforms of both current and voltage can be automatically captured and displayed before and after tripping, or manually via the "waveform capture" function.

Eaton software for a broad range of tasks

Configuration, project planning, visualization and much more

xEnergy configurator
The circuit breaker configurator is part of the xEnergy Configurator, and supports users in correctly configuring and ordering their Eaton products:

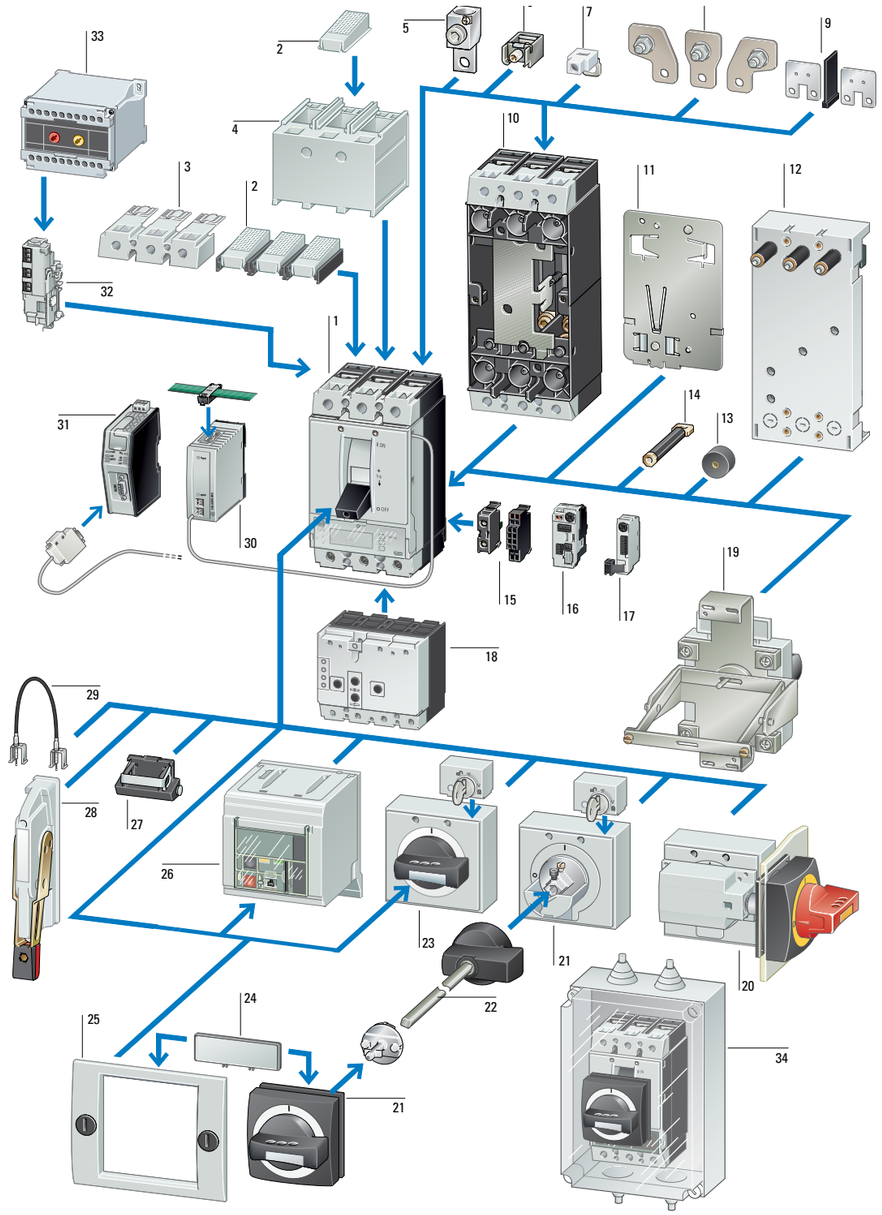
- Easy to operate
- Support of error-free selection and ordering of compact and open circuit breakers (NZM / IZMX)

xSpider
xSpider is the next generation of software for the sizing and planning of lowvoltage networks. It supports the design, selection and optimal configuration of the requisite switchgear. The graphic-oriented drafting software is easy to use and the corresponding database contains all relevant Eaton devices. The ability to select a circuit breaker based on the network diagram, and to examine the tripping characteristic directly, allows for a quick assessment of the selectivity and the required backup fuse. The integrated ArcRisk module, which is currently unique on the market, offers a quick and clear assessment of the arc fault risk in the planned low-voltage switchgear assembly.

Product groups

System overview – circuit breakers / switch-disconnectors

Benefit from our portfolio of integrated accessories
Assembly and function are identical for all accessories, independent of frame size. For example, the contact elements from the RMQ-Titan® range of control devices are used for the entire series of NZM circuit breakers. This reduces the number of separate product groups while simplifying the processes related to ordering and storage. The contact elements can simply be snapped on at the front.
The position determines the function: signaling contact or trip-indicating auxiliary contact. Shunt or undervoltage releases, which can also be combined with early-make auxiliary contacts (e.g. for interlocking or load-shedding circuits), offer a sophisticated approach to a wide range of applications.



1 Switch-disconnector; circuit breaker; circuit breaker for North America; molded case switches for North America
2 IP2X protection against finger-contact
3 Terminal cover, knockout
4 Terminal cover
5 Tunnel terminals
6 Box terminals
7 Control circuit terminal
8 Connection width extension
9 Link kit
10 Plug-in and withdrawable unit
11 Adapter plate
12 Busbar adapter
13 Spacer
14 Connection on rear
15 Standard auxiliary contacts, trip-indicating auxiliary switches
16 BSM interface module
17 Interface communication module for Modbus RTU
18 Residual-current protection device
19 Rear operator
20 Main switch rotary handle for side panel mounting
21 Door coupling rotary handle
22 Extension shaft
23 Rotary handle
24 External warning plate/marking plate
25 Insulating surround
26 Remote operator
27 Toggle lever interlock device
28 Side operator handle
29 Mechanical interlock
30 Communication module for SmartWire-DT
31 Communication module Ethercat, Ethernet/IP and Profinet
32 Voltage release/early-make auxiliary contact
33 Delay unit for undervoltage releases

Terminal types

The matching accessories for versatile applications

The terminal technology of the NZM circuit breakers enables you to address the specific requirements of your system in a flexible manner. Whether it is copper cables from 6 mm² to 300 mm² or aluminum cables, copper strips or copper bars – the NZM has the right solution for every type of connection. On the NZM2 and NZM3, for example, the box terminal can be opened upwards to simply swivel in the conductors. An IP20 (finger-safe) degree of protection can be achieved by means of accessories.

The heads of all the screws used in the circuit breakers, with the exception of the main terminal screws, have a plus-minus profile. This has the advantage that fast machine screwdrivers with standardized Pozidriv 2 drill bits can be used. Alternatively, a standard flat-bladed screwdriver may also be used. This applies to all fixing screws, auxiliary conductor terminals, flaps and covers as well as to all adjustment knobs.

Like the Pozidriv cross slot, the plus-minus slot can transmit a higher torque, which also makes it easier to center the tool while exerting less surface pressure. In addition, the plus-minus slot can be used for different types of tools and is particularly suitable for devices that require frequent maintenance.

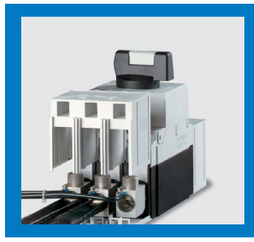
1 Enhanced connectivity
The NZM circuit breakers and the PN and N switch-disconnectors can be connected by means of round conductors with or without cable lug, or by using laminated copper strips or copper bars. Another special feature: A narrow version of the cable lug is available to facilitate the connection of thick round conductors up to 300 mm².

2 Screw terminal
Screw terminals are an inexpensive option for connecting cable lugs, perforated strips or copper bars. Our product portfolio of switch-gear accessories also includes the matching cable lugs.
Furthermore, a stud version is offered which allows the simplest mounting of the cable lugs.

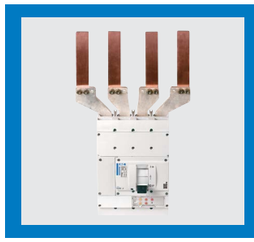
3 Box terminal for copper cable
If one or two flexible copper conductors or strips are to be directly connected, the box terminal ensures that the contact is safe. On the NZM2 and NZM3, the box terminal can be opened upwards for easy insertion of thick and rigid conductors, which makes connection particularly easy.

Back-of-hand and finger protection
Back-of-hand protection for cable lugs, box terminals or tunnel terminals can also be achieved by means of covers. IP2X finger protection, as required for main switches in accordance with IEC/EN 60204-1, can be quickly and easily implemented. The additional covers can be adapted to any cross section.

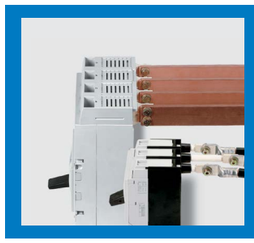
Control-circuit terminals
The control-circuit terminals are simply screwed on below the respective connection type. This makes it possible to quickly set up the taps for voltmeters, control transformers, undervoltage releases etc.



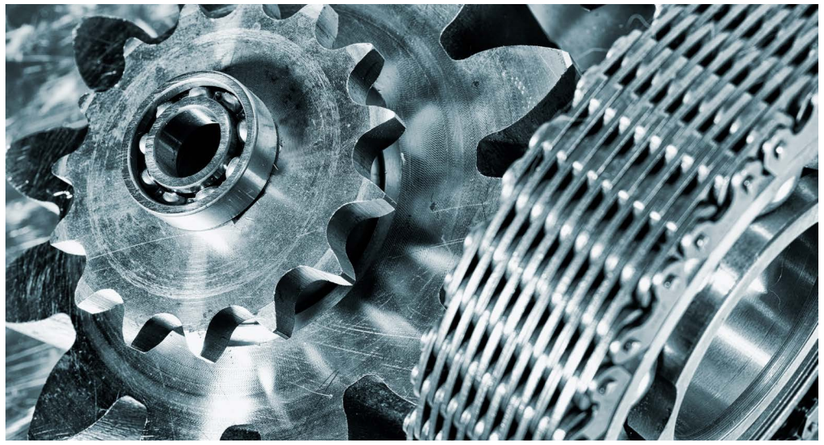
4 Tunnel terminal for aluminum and copper cables
The connection space of this special, tin-plated aluminum terminal is tunnel-shaped to reliably prevent the typical "flow behavior" of aluminum under high pressure. Depending on the model, up to six aluminum or copper conductors can be connected per phase.



5 Connection expansion for additional conductors
This allows for the connection of up to six conductors with cable lugs per phase. Auxiliary busbar systems are no longer required. Special covers for IP2X finger protection are available.



6 Connection at rear
This allows for the connection of rails or round conductors with cable lugs at the rear. The switch area, the cable connection area and the control area can be easily partitioned.

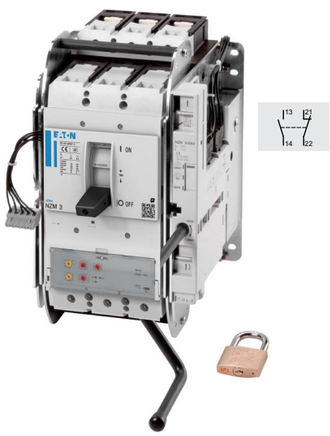


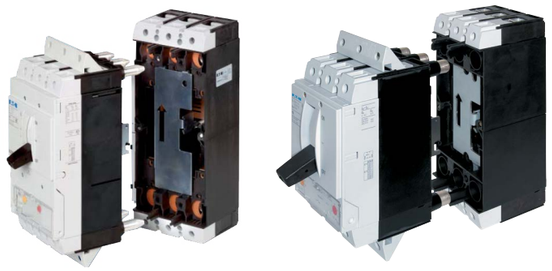
Plug-in and withdrawable units

Safe to operate, with quick switch replacement

Withdrawable units
In addition to the fixed installation type, the NZM3 and NZM4 circuit breakers are also available with plug-in and withdrawable units. You will benefit in more than one way: You will save money and time while eliminating sources of error. This makes it possible to react quickly to malfunctions or to replace the parts (e.g. as a result of an increase in the rated current), thereby avoiding long and expensive downtimes. The withdrawable units are operated using a uniform crank, which increases operational safety. This also makes it possible to put the switch into the test position for functional testing without any switching of the main contacts.

The position of the switch in the cassette can be detected by means of auxiliary contacts. This involves the following positions: connected/test position/disconnected. Even in the disconnected position, the switch is secured inside the cassette by means of a lock, to prevent it from falling out. Removal is only possible via manual release. In addition, the cassette can be locked in any position using a padlock. The standard terminals are compatible with the cassette base.





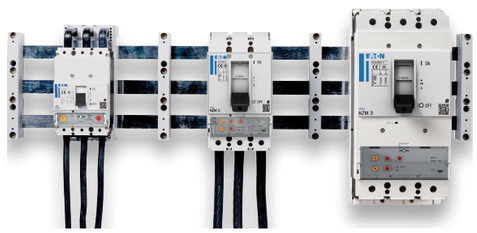
Plug-in units
The plug-in technology allows for the quick and easy replacement of switches, without the need to switch off the system. The equal width of the fixed circuit breakers and the plug-in units simplifies the planning and design of the system. In addition to its isolating characteristics, the plug-in technology also facilitates the implementation of a clearly visible isolating distance.

The socket features the same terminals as the fixed switches, while the open plug-in contacts provide for IP2X finger protection. During dismantling, the circuit breaker will be automatically opened and moved to the tripped position for safety reasons. The control-circuit cable can be disconnected by means of a controlcircuit plug unit. If the system is to be modified at a later date, the use of plug-in sockets for reserve outlets is recommended.

The plug-in technology is available for the NZM1, NZM2 and NZM3 models. The technology enables the safe and simple electrical isolation of the system during maintenance or replacement of the circuit breaker. An optional control-circuit plug unit is also available. This control-circuit plug unit makes it possible to test the control commands to/from the circuit breaker (shunt/undervoltage release, auxiliary contacts), even if it is not installed as part of the system. The socket has the same types of terminals as the main device. The NZM system accessories can be used without restriction.

Multi-purpose adapter

For universal use and space-saving



Thanks to their space-saving contacts, the busbar adapters can be installed even in applications where space is limited. They are suitable for universal use on any 60 mm busbar system. They are compatible with three different frame sizes, for 160 A, 250 A and 550 A.

Releases and auxiliary contacts

Multi-purpose elements for easy handling

Identical function and assembly of accessories
Assembly and function are identical for all accessories, independent of frame size. This makes handling considerably easier, enabling you to save time while reducing installation and maintenance costs.

Push-in: Quick and safe connection
Both the new undervoltage and shunt releases up to 250 V and the relay modules now come with push-in terminals. This not only reduces the likelihood of errors, but also simplifies preparation and wiring while ensuring that your installation concept meets the highest safety requirements.

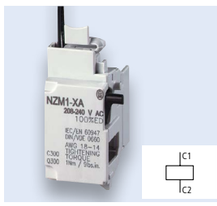
The relay modules allow for automated signaling and responses
The relay modules are available for voltages up to 230 V AC and 24 V DC. Combinations with a shunt release or undervoltage release, or with an optional early-make auxiliary contact, are also possible. If you do not require any additional functions, configurations with two relays will suffice. The modules can be activated in the event of certain alerts, statuses or functions. In addition, it is also possible to control a remote operator or a motor-starter combination, or to set up alert and status signaling to the PLC.

Simplified ordering thanks to the RMQ-Titan® contact elements
Like all standard auxiliary contacts in the 22-mm range, the trip-indicating switches use contact elements from the RMQ-Titan® range of control devices. The contact elements can simply be snapped on at the front. You can therefore choose from a wide range of auxiliary contacts, which are not only universally applicable, but also extremely robust and inexpensive. This simplifies the processes related to ordering and also reduces storage costs.

The position determines the function
Whether it's signaling contacts or trip-indicating auxiliary contacts – all contacts as well as releases are also available with screw terminals. This ensures quick wiring of the circuit breakers and switch-disconnectors. The double contacts allow for twice as many auxiliary and signaling contacts in the same space. They are equipped with spring-loaded cage clamps.

Flexible options for safety and locking tasks
Shunt or undervoltage releases are a sophisticated option for a wide range of applications – especially in combination with early-make auxiliary contacts, for example in interlocking or load-shedding circuits.

Voltage releases for a variety of tasks
Voltage releases are available for the following applications: as undervoltage releases (with or without early-make auxiliary contacts) for main switch applications in accordance with EN 60204; as shunt releases for remote release; and as mesh-network circuit breakers for increased trip reliability.



A special case: Mesh-network circuit breakers
Eaton offers two options for mesh-network circuit breakers: a shunt release that functions as intended in the range from 10 % to 110 % of the control voltage, and a special shunt release that ensures trip reliability up to 12 hours after a power failure, provided it is used in conjunction with a capacitor unit.

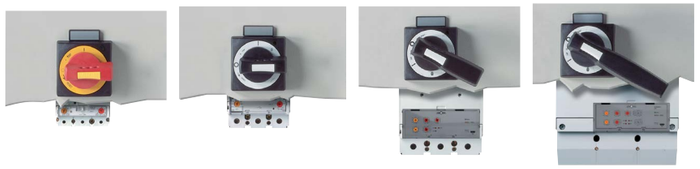
Variable operation

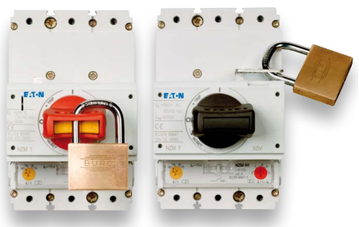
Toggle, turn, switch automatically

Door-coupling rotary handles – ergonomic switching
Shafts that can be cut to different lengths allow for installation in control panels and enclosures with depths up to 600 mm. A cost-effective and easy-to-install option is also available for tight installations where the switch is located directly on the inside of the cover.

Consistent and flexible
All door-coupling rotary handles have the same drilling template. This consistency contributes to a faster installation process. The switches can be installed either vertically or horizontally inside the control panel.

Toggle or turn
The new circuit breaker series comes with the proven toggle lever as standard. The three switching positions ON, OFF and "TRIPPED" indicate the status of the device. For typical isolator applications where a voltage release is not required, Eaton offers the cost-effective PN switch-disconnector with the switch position indicators 0 and I. Depending on the individual requirements, the toggle mechanism can be converted to rotary action by means of a rotary drive. If a main switch or emergency power-off switch is used with a rotary handle, the latter can be locked with up to three padlocks. For the emergency power-off function, the rotary handles are also available in red/yellow.





Application-specific connections
For greater flexibility, the door-coupling rotary handle is available in various versions. The standard handle allows for automatic locking of the handle position, so that the control-panel doors can be conveniently closed even at different switching positions. The second version can be locked by means of padlocks, which will lock the doors automatically when closed. In the third version, an additional locking mechanism is available directly at the switch. In a large distribution board, for example, the switches can thus be individually locked. For the emergency-stop function, the handles are also available in contrasting red/yellow.

Rotary handles

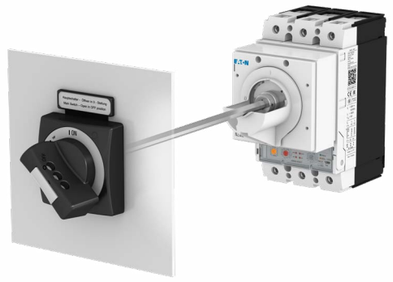
For switches and various types of interlocks

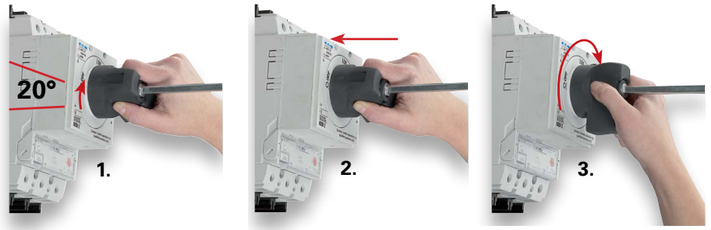
Key locks for NZM circuit breakers
This function prevents the corresponding circuit breaker or switch-disconnector from being opened, and ensures the isolating condition for the OFF position in accordance with IEC/EN 60947-1. In this version, a cylinder lock combines with our proven rotary handles and door-coupling rotary handles and acts directly on the switch. To activate the lock, the circuit breaker or switch-disconnector must be first switched off. The safety key can only be removed in the "OFF" position. Once the machine has been switched off, operators can easily and safely work on it. They will also be able to lock multiple switches securely against one another.

IEC and NA door-coupling rotary handles

Enhanced security by means of an additional handle on the switch

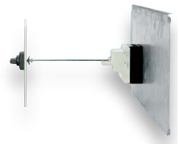
Door-coupling rotary handle for North America in accordance with NFPA79 and UL508A
The North American user guidelines stipulate that the actuator must always be connected to the switch. This also applies when the control panel door is open. The door-coupling rotary handle with additional handle on the switch fulfills this condition. The handle complies with the latest NFPA79 and UL508A regulations for "deliberate action". Deliberate action is ensured by the fact that the additional handle must first be moved by approximately 20° before being simultaneously pressed (2) and turned (3) to turn on the switch. All essential safety features, such as the means of actuation, the switch position indication and the locking capability, are present twice, i.e. both on the outside of the door-coupling rotary handle and on the inside of the switch. The rotary handle for North American standards is available for frame sizes 1, 2, 3, and 4.





Main switch assembly kits

Operators and accessories



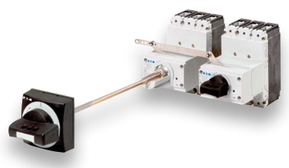
Flange operator
For applications up to 1600 A, the flange operator allows the switch to be operated from the right or left hand side, as desired. With the optional addition of our mounting bracket for frame sizes 1 and 2, the space inside the control panel can be optimally used. The mounting plate can thus be used for other machine control elements.

Side-mounted handle
In UL applications, the side-mounted handle can be used for different frame sizes and for complete sets as well as for different degrees of protection and Bowden cable lengths. Caution: The side-mounted handle does not have IEC approval.

Rear operator
The innovative rear operators for circuit breakers and switch-disconnectors of frame sizes 1 and 2 offer an inexpensive and compact option for installing the switch and the door handle as a single unit in the enclosure doors or side panels. Typical applications include main switches with rated currents up to 250 A, for example in processing machines where space is limited (with or without emergency power-off function).

In addition to the optical benefits of this type of externally visible mounting, it also provides simple and fast access to the terminals, setting buttons, voltage releases and auxiliary contacts. Thanks to the UL/CSA approvals, the devices are suitable for global use, including North America. All circuit breakers and switch-disconnectors from the NZM1 and NZM2 range can be fitted with a rear operator. The compact mechanism and the solid rotary handle allow for quick installation and easy operation.

Accessories
A wide range of accessories, such as covers, locking devices, bezels and spacers etc., are available for all rotary handles and operators.



Paralleling mechanism
The sophisticated paralleling mechanism for disconnectors (PN) up to 630 A enables the simultaneous switching of multiple devices with just one movement. In a processing machine, for example, both the main and the auxiliary circuits can thus be safely switched at the same time.

Remote operators

A consistent functional concept for simplified operation

It is in Eaton's nature to move things forward, as proven by our efforts to continuously optimize the accessories of the NZM product family. For example, the remote operators have now been equipped with a new control-circuit terminal, in which the plug can be firmly screwed to the pin header. An additional advantage: The terminal system comes with time-saving push-in terminals as a standard.

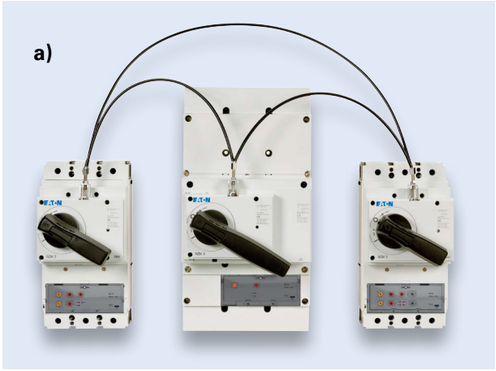
The economic NZM2 remote operator for standard tasks with rated currents up to 300 A
The switching time of the new NZM2 remote operator is max. 170 ms, and it can therefore be used for automated or remote energy control in standard applications. The retractable mounting plate allows for quick checking of the built-in auxiliary contacts and voltage releases. Thanks to its slim design, the remote operator does not require any additional mounting surface. It has been equipped with a selector switch to ensure safe differentiation between the various operating positions. In addition, the switches can be securely locked in the 0 position by means of padlocks.

The convenient remote operator for synchronization tasks of the NZM2 to NZM4 series
The spring-loaded operator enables fast switch-on times of 60 ms or 100 ms, making it suitable for use with synchronization tasks. Short function sequences and the small number of parts ensure a high degree of stability and a long service life. The possibility to seal the auto function and the option of locking the remote operator with a padlock are further important contributions to safety.

Mechanical interlocks

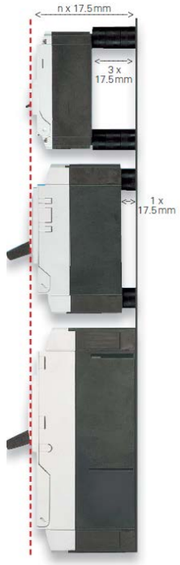
With Bowden cable

Mechanical lock modules allow for the locking of two or three switches (of identical or different frame sizes), which can either be equipped with rotary handles (a) or remote operators (b). The use of the Bowden cable makes it possible to mount the switches freely in various positions. The switches may be arranged up to 1 m apart – for example in separate enclosures.



Mounting tools

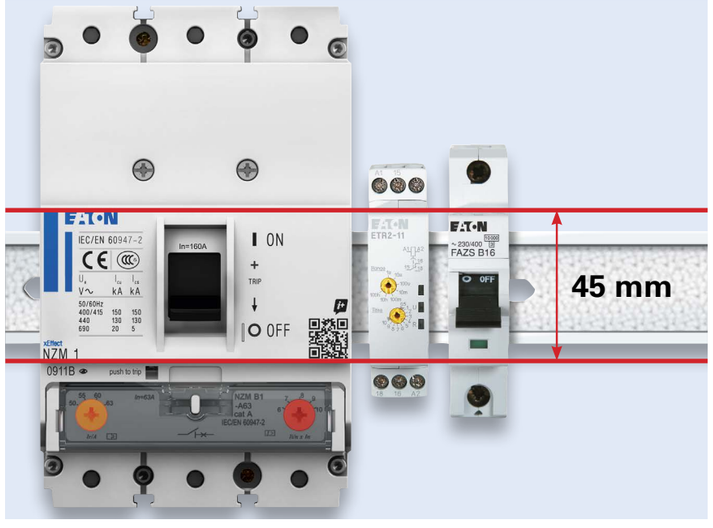
Save time and money



Spacers
All switches, including their accessories, have been designed on a grid with the spacer as the base unit. Different switch depths can be easily compensated with the quick addition of inexpensive spacers. If the circuit breaker is to be externally operated, this option offers a cost-effective alternative to the door-coupling rotary handle with shaft extension. This brand new technology thus results in significant time and cost savings.

Bezels
Whether the switch is equipped with a toggle lever, a rotary operator or a remote operator, the bezel will always fit. There is thus no need to keep various types of bezels in stock. This is a low-cost option for operating switches from the outside when the control panel door is closed. The bezel has IP40 degree of protection, and the inscription labels can be simply snapped on.

Top-hat rail mounting
The top-hat rail mounting saves time thanks to the use of clip plates for NZM1 and NZM2. Simply attach the clip plate to the circuit breaker at the rear and then clip it onto the top-hat rail. A tiresome drilling of holes in the mounting plate is no longer necessary. A special advantage of the small NZM1: Thanks to the standardized front dimensions, add-on configurations (e.g. with narrow circuit breakers) are possible inside the distribution board.



Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection
• IEC/EN 60947-2

Basic switching capacity

SG06921_L Symbolphoto

25	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		

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125	100 - 125	6 - 10	NZMB2-A125	259087
160	125 - 160	6 - 10	NZMB2-A160	259088
200	160 - 200	6 - 10	NZMB2-A200	259089
250	200 - 250	6 - 10	NZMB2-A250	259090
300	240 - 300	5 - 8.3	NZMB2-A300	107518

Comfort switching capacity

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36	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		

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125	100 - 125	6 - 10	NZMC2-A125	271420
160	125 - 160	6 - 10	NZMC2-A160	271421
200	160 - 200	6 - 10	NZMC2-A200	271422
250	200 - 250	6 - 10	NZMC2-A250	271423
300	240 - 300	5 - 8.3	NZMC2-A300	107519

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250	200 - 250	6 - 10	NZMC3-A250	109664
320	250 - 320	6 - 10	NZMC3-A320	109665
			-	
400	320 - 400	6 - 10	NZMC3-A400	109666
			-	
500	400 - 500	6 - 10	NZMC3-A500	109667
			-	

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

NZMB1-A20	280987	NZMB1-A20-SVE	112733	1 Off
NZMB1-A25	280988	NZMB1-A25-SVE	112734	
NZMB1-A32	280989	NZMB1-A32-SVE	112735	
NZMB1-A40	259075	NZMB1-A40-SVE	112703	
NZMB1-A50	259076	NZMB1-A50-SVE	112704	
NZMB1-A63	259077	NZMB1-A63-SVE	112705	
NZMB1-A80	259078	NZMB1-A80-SVE	112706	
NZMB1-A100	259079	NZMB1-A100-SVE	112707	
NZMB1-A125	259080	NZMB1-A125-SVE	112708	
NZMB1-A160	281230	-		

Terminals as accessory		NZMB2-A125-SVE	113192	
NZMB2-A160-BT	110215	NZMB2-A160-SVE	113193	
NZMB2-A200-BT	110216	NZMB2-A200-SVE	113194	
NZMB2-A250-BT	110217	NZMB2-A250-SVE	113195	
NZMB2-A300-BT	110214	-		

NZMC1-A20	283293	NZMC1-A20-SVE	112753	1 Off
NZMC1-A25	283294	NZMC1-A25-SVE	112754	
NZMC1-A32	283295	NZMC1-A32-SVE	112755	
NZMC1-A40	271392	NZMC1-A40-SVE	112737	
NZMC1-A50	271393	NZMC1-A50-SVE	112738	
NZMC1-A63	271394	NZMC1-A63-SVE	112739	
NZMC1-A80	271395	NZMC1-A80-SVE	112740	
NZMC1-A100	271396	NZMC1-A100-SVE	112741	
NZMC1-A125	271397	NZMC1-A125-SVE	112742	
NZMC1-A160	283296	-		

Terminals as accessory		NZMC2-A125-SVE	113219	1 Off
NZMC2-A160-BT	110219	NZMC2-A160-SVE	113220	
NZMC2-A200-BT	110280	NZMC2-A200-SVE	113221	
NZMC2-A250-BT	110281	NZMC2-A250-SVE	113222	
NZMC2-A300-BT	110218	-		

Terminals as accessory		-		
NZMC3-A320-BT	110299	NZMC3-A320-SVE	168450	
-		NZMC3-A320-AVE	113509	
NZMC3-A400-BT	110300	NZMC3-A400-SVE	168451	
-		NZMC3-A400-AVE	113510	
NZMC3-A500-BT	110301	NZMC3-A500-SVE	168452	
-		NZMC3-A500-AVE	113511	

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range: Overload releases $I_r = I_n x...$ A	Setting range: Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
50	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		

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125	100 - 125	6 - 10	NZMN2-A125	259091	
160	125 - 160	6 - 10	NZMN2-A160	259092	
200	160 - 200	6 - 10	NZMN2-A200	259093	
250	200 - 250	6 - 10	NZMN2-A250	259094	
300	240 - 300	5 - 8.3	NZMN2-A300	107580	

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250	200 - 250	6 - 10	NZMN3-A250	109668	
320	250 - 320	6 - 10	NZMN3-A320	109669	
			-		
400	320 - 400	6 - 10	NZMN3-A400	109670	
			-		
500	400 - 500	6 - 10	NZMN3-A500	109671	
			-		

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For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
NZMN1-A20	281231		NZMN1-A20-SVE	112776	1 Off
NZMN1-A25	281232		NZMN1-A25-SVE	112777	
NZMN1-A32	281233		NZMN1-A32-SVE	112778	
NZMN1-A40	259081		NZMN1-A40-SVE	112757	
NZMN1-A50	259082		NZMN1-A50-SVE	112758	
NZMN1-A63	259083		NZMN1-A63-SVE	112759	
NZMN1-A80	259084		NZMN1-A80-SVE	112760	
NZMN1-A100	259085		NZMN1-A100-SVE	112761	
NZMN1-A125	259086		NZMN1-A125-SVE	112762	
NZMN1-A160	281234		-		

Terminals as accessory		NZMN2-A125-SVE	113243	
NZMN2-A160-BT	110283	NZMN2-A160-SVE	113244	
NZMN2-A200-BT	110284	NZMN2-A200-SVE	113245	
NZMN2-A250-BT	110285	NZMN2-A250-SVE	113246	
NZMN2-A300-BT	110282	-		

Terminals as accessory		-	
NZMN3-A320-BT	110302	NZMN3-A320-SVE	168486
-		NZMN3-A320-AVE	110858
NZMN3-A400-BT	110303	NZMN3-A400-SVE	168487
-		NZMN3-A400-AVE	110859
NZMN3-A500-BT	110304	NZMN3-A500-SVE	168488
-		NZMN3-A500-AVE	110860

System and cable protection

• IEC/EN 60947-2

Strong switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range: Overload releases $I_r = I_n x...$ A	Setting range: Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
70	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		

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20	15 - 20	350 A fixed	NZMS2-A20	192020	
32	25 - 32	350 A fixed	NZMS2-A32	192022	
40	32 - 40	8 - 10	NZMS2-A40	109958	
50	40 - 50	6 - 10	NZMS2-A50	109959	
63	50 - 63	6 - 10	NZMS2-A63	109960	
80	63 - 80	6 - 10	NZMS2-A80	109961	
100	80 - 100	6 - 10	NZMS2-A100	109962	
125	100 - 125	6 - 10	NZMS2-A125	109963	
160	125 - 160	6 - 10	NZMS2-A160	109964	
200	160 - 200	6 - 10	NZMS2-A200	109965	
250	200 - 250	6 - 10	NZMS2-A250	109966	
300	240 - 300	5 - 8.3	NZMS2-A300	109967	

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250	200 - 250	6 - 10	NZMS3-A250	192023	
320	250 - 320	6 - 10	NZMS3-A320	192024	
400	320 - 400	6 - 10	NZMS3-A400	192025	
500	400 - 500	6 - 10	NZMS3-A500	192026	

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For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		
NZMS1-A20	109933	NZMS1-A20-SVE	112780	1 Off
NZMS1-A25	109934	NZMS1-A25-SVE	112781	
NZMS1-A32	109935	NZMS1-A32-SVE	112782	
NZMS1-A40	109936	NZMS1-A40-SVE	112783	
NZMS1-A50	109937	NZMS1-A50-SVE	112784	
NZMS1-A63	109938	NZMS1-A63-SVE	112785	
NZMS1-A80	109939	NZMS1-A80-SVE	112786	
NZMS1-A100	109940	NZMS1-A100-SVE	112787	
NZMS1-A125	109941	NZMS1-A125-SVE	112788	
NZMS1-A160	109942	-		

Terminals as accessory		-	
		-	
		NZMS2-A40-SVE	113283
		NZMS2-A50-SVE	113284
		NZMS2-A63-SVE	113285
		NZMS2-A80-SVE	113286
		NZMS2-A100-SVE	113287
		NZMS2-A125-SVE	113288
		NZMS2-A160-SVE	113289
		NZMS2-A200-SVE	113290
		NZMS2-A250-SVE	113291
		-	

Terminals as accessory		-	
		-	
		-	
		-	

System and cable protection

- IEC/EN 60947-2

High switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range: Overload releases $I_r = I_n x...$ A	Setting range: Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
100	20	15 - 20	350 A fixed	Screw terminals as accessories	
	25	20 - 25	350 A fixed		
	32	25 - 32	350 A fixed		
	40	32 - 40	8 - 10		
	50	40 - 50	6 - 10		
	63	50 - 63	6 - 10		
	80	63 - 80	6 - 10		
	100	80 - 100	6 - 10		
	125	100 - 125	6 - 10		
	160	125 - 160	1280 A fixed		
150	20	15 - 20	350 A fixed	NZMH2-A20	281281
	25	20 - 25	350 A fixed	NZMH2-A25	281282
	32	25 - 32	350 A fixed	NZMH2-A32	281283
	40	32 - 40	8 - 10	NZMH2-A40	259095
	50	40 - 50	6 - 10	NZMH2-A50	259096
	63	50 - 63	6 - 10	NZMH2-A63	259097
	80	63 - 80	6 - 10	NZMH2-A80	259098
	100	80 - 100	6 - 10	NZMH2-A100	259099
	125	100 - 125	6 - 10	NZMH2-A125	259100
	160	125 - 160	6 - 10	NZMH2-A160	259101
	200	160 - 200	6 - 10	NZMH2-A200	259102
	250	200 - 250	6 - 10	NZMH2-A250	259103
	300	240 - 300	5 - 8.3	NZMH2-A300	107581
	250	200 - 250	6 - 10	NZMH3-A250	109672
	320	250 - 320	6 - 10	NZMH3-A320	109673
				-	
	400	320 - 400	6 - 10	NZMH3-A400	109674
				-	
	500	400 - 500	6 - 10	NZMH3-A500	109675
				-	

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For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		
NZMH1-A20	284376	NZMH1-A20-SVE	112795	1 Off
NZMH1-A25	284377	NZMH1-A25-SVE	112796	
NZMH1-A32	284378	NZMH1-A32-SVE	112797	
NZMH1-A40	284379	NZMH1-A40-SVE	112798	
NZMH1-A50	284410	NZMH1-A50-SVE	112799	
NZMH1-A63	284411	NZMH1-A63-SVE	112800	
NZMH1-A80	284412	NZMH1-A80-SVE	112801	
NZMH1-A100	284413	NZMH1-A100-SVE	112802	
NZMH1-A125	284414	NZMH1-A125-SVE	112803	
NZMH1-A160	284415	-		
NZMH2-A20-BT	110296	NZMH2-A20-SVE	113351	
NZMH2-A25-BT	110297	NZMH2-A25-SVE	113352	
NZMH2-A32-BT	110298	NZMH2-A32-SVE	113353	
NZMH2-A40-BT	110287	NZMH2-A40-SVE	113328	
NZMH2-A50-BT	110288	NZMH2-A50-SVE	113329	
NZMH2-A63-BT	110289	NZMH2-A63-SVE	113330	
NZMH2-A80-BT	110290	NZMH2-A80-SVE	113331	
NZMH2-A100-BT	110291	NZMH2-A100-SVE	113332	
NZMH2-A125-BT	110292	NZMH2-A125-SVE	113333	
NZMH2-A160-BT	110293	NZMH2-A160-SVE	113334	
NZMH2-A200-BT	110294	NZMH2-A200-SVE	113335	
NZMH2-A250-BT	110295	NZMH2-A250-SVE	113336	
NZMH2-A300-BT	110286	-		
Terminals as accessory		-		
NZMH3-A320-BT	110305	NZMH3-A320-SVE	168913	
-		NZMH3-A320-AVE	110861	
NZMH3-A400-BT	110306	NZMH3-A400-SVE	168914	
-		NZMH3-A400-AVE	110862	
NZMH3-A500-BT	110307	NZMH3-A500-SVE	168915	
-		NZMH3-A500-AVE	110863	

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases $I_r = I_n x...$ A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational current 400 V I_e A	Fixed mounting with screw terminals Part no.	Article no.

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

Basic switching capacity

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25	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	40 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	81		

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	125	100 - 125	8 - 14	55	99	NZMB2-M125	265715
	160	125 - 160	8 - 14	75	134	NZMB2-M160	265716
	200	160 - 200	8 - 14	110	196	NZMB2-M200	265717

Comfort switching capacity

SG06921_L Symbolphoto

36	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	50 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	81		

SG08021_L Symbolphoto

	125	100 - 125	8 - 14	55	99	NZMC2-M125	271424
	160	125 - 160	8 - 14	75	134	NZMC2-M160	271425
	200	160 - 200	8 - 14	110	196	NZMC2-M200	271426

Fixed mounting with box terminals Part no.	Article no.		Plug-in units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMB1-M40	265710		NZMB1-M40-SVE	112709	1 Off
NZMB1-M50	265711		NZMB1-M50-SVE	112720	
NZMB1-M63	265712		NZMB1-M63-SVE	112721	
NZMB1-M80	265713		NZMB1-M80-SVE	112722	
NZMB1-M100	265714		NZMB1-M100-SVE	112723	

NZMB2-M125-BT	115260		NZMB2-M125-SVE	113196	
Terminals as accessory			NZMB2-M160-SVE	113197	
			NZMB2-M200-SVE	113198	

NZMC1-M40	271398		NZMC1-M40-SVE	112743	1 Off
NZMC1-M50	271399		NZMC1-M50-SVE	112744	
NZMC1-M63	271400		NZMC1-M63-SVE	112745	
NZMC1-M80	271401		NZMC1-M80-SVE	112746	
NZMC1-M100	271402		NZMC1-M100-SVE	112747	

Terminals as accessory			NZMC2-M125-SVE	113223	
			NZMC2-M160-SVE	113224	
			NZMC2-M200-SVE	113225	

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases $I_r = I_n x...$ A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational current 400 V I_e A	Fixed mounting with screw terminals Part no.	Article no.

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

Normal switching capacity

SG06921_L Symbolphoto

50	40	32 - 40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40 - 50	8 - 14	22	41		
	63	50 - 63	8 - 14	30	55		
	80	63 - 80	8 - 14	37	68		
	100	80 - 100	8 - 12.5	45	81		

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	125	100 - 125	8 - 14	55	99	NZMN2-M125	265723
	160	125 - 160	8 - 14	75	134	NZMN2-M160	265724
	200	160 - 200	8 - 14	110	196	NZMN2-M200	265725

Strong switching capacity

SG08021_L Symbolphoto

70	20	15 - 20	350 A fixed	7.5	16	NZMS2-M20	109968
	25	20 - 25	350 A fixed	11	21.7	NZMS2-M25	109969
	32	25 - 32	350 A fixed	15	29.3	NZMS2-M32	109970
	40	32 - 40	8 - 14	18.5	36	NZMS2-M40	109971
	50	40 - 50	8 - 14	22	41	NZMS2-M50	109972
	63	50 - 63	8 - 14	30	55	NZMS2-M63	109973
	80	63 - 80	8 - 14	37	68	NZMS2-M80	109974
	100	80 - 100	8 - 14	45	81	NZMS2-M100	109975
	125	100 - 125	8 - 14	55	100	NZMS2-M125	109976
	160	125 - 160	8 - 14	75	134	NZMS2-M160	109977
	200	160 - 200	8 - 14	110	196	NZMS2-M200	109978

Fixed mounting with box terminals Part no.	Article no.		Plug-in units Part no.	Article no.	Std. pack
Order base separately					

For further terminal types see accessories

NZMN1-M40	265718	NZMN1-M40-SVE	112763	1 Off
NZMN1-M50	265719	NZMN1-M50-SVE	112764	
NZMN1-M63	265720	NZMN1-M63-SVE	112765	
NZMN1-M80	265721	NZMN1-M80-SVE	112766	
NZMN1-M100	265722	NZMN1-M100-SVE	112767	

Terminals as accessory		NZMN2-M125-SVE	113250	
		NZMN2-M160-SVE	113251	
		NZMN2-M200-SVE	113252	

Terminals as accessory		NZMS2-M20-SVE	113293	1 Off
		NZMS2-M25-SVE	113294	
		NZMS2-M32-SVE	113295	
		NZMS2-M40-SVE	113296	
		NZMS2-M50-SVE	113297	
		NZMS2-M63-SVE	113298	
		NZMS2-M80-SVE	113299	
		NZMS2-M100-SVE	113300	
		NZMS2-M125-SVE	113301	
		NZMS2-M160-SVE	113302	
		NZMS2-M200-SVE	113303	

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases $I_r = I_n x...$ A	Short-circuit releases Non-delayed $I_i = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational current 400 V I_e A	Fixed mounting with screw terminals Part no.	Article no.

Motor protection

- NZM...1-M...: with phase-failure sensitivity
- Tripping class 10 A
- IEC/EN 60947-2

High switching capacity

SG06921_L Symbolphoto

100	40	32-40	8 - 14	18.5	36	Screw terminals as accessories	
	50	40-50	8 - 14	22	41		
	63	50-63	8 - 14	30	55		
	80	63-80	8 - 14	37	68		
	100	80-100	8 - 12.5	45	81		

SG08021_L Symbolphoto

	25	20-25	350 A fixed	11	21.7	NZMH2-M25	281300
	32	25-32	350 A fixed	15	29.3	NZMH2-M32	281301
	40	32-40	8 - 14	18.5	36	NZMH2-M40	281302
	50	40-50	8 - 14	22	41	NZMH2-M50	281303
	63	50-63	8 - 14	30	55	NZMH2-M63	281304
	80	63-80	8 - 14	37	68	NZMH2-M80	281305
	100	80-100	8 - 14	45	81	NZMH2-M100	281306
	125	100-125	8 - 14	55	99	NZMH2-M125	281307
	160	125-160	8 - 14	75	134	NZMH2-M160	281308
	200	160-200	8 - 14	110	196	NZMH2-M200	281309

Fixed mounting with box terminals Part no.	Article no.		Plug-in units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMH1-M40	115450		NZMH1-M40-SVE	115790	1 Off
NZMH1-M50	115451		NZMH1-M50-SVE	115791	
NZMH1-M63	115452		NZMH1-M63-SVE	115792	
NZMH1-M80	115453		NZMH1-M80-SVE	115793	
NZMH1-M100	115454		NZMH1-M100-SVE	115794	

Terminals as accessory		NZMH2-M25-SVE	113355	
		NZMH2-M32-SVE	113356	
		NZMH2-M40-SVE	113357	
		NZMH2-M50-SVE	113358	
		NZMH2-M63-SVE	113359	
		NZMH2-M80-SVE	113360	
		NZMH2-M100-SVE	113361	
		NZMH2-M125-SVE	113362	
		NZMH2-M160-SVE	113363	
		NZMH2-M200-SVE	113364	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range Short-circuit releases Non-delayed	Rated operational power AC-3 50/60 Hz 400 V	Rated operational current AC-3 50/60 Hz 400 V	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$	P kW	I_e A		

Short-circuit protection

Motor protection in conjunction with overload relay
- With short-circuit releases
- Without overload releases $I_{r = Inx...}$
- IEC/EN 60947-2

Basic switching capacity

SG06821_L Symbolphoto

25	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		

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	125	8 - 14	45	99	NZMB2-S125	265736
	160	8 - 14	75	134	NZMB2-S160	265737
	200	8 - 12.5	110	196	NZMB2-S200	265738

Comfort switching capacity

SG06821_L Symbolphoto

36	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		

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	125	8 - 14	45	99	NZMC2-S125	271427
	160	8 - 14	75	134	NZMC2-S160	271428
	200	8 - 12.5	110	196	NZMC2-S200	271429

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	250	8 - 14	132	231	NZMC3-S250	109676
					-	
	320	8 - 14	160	279	NZMC3-S320	109677
					-	
	400	7 - 12.5	200	349	NZMC3-S400	109678
					-	
	500	6 - 10	250	437	NZMC3-S500	109679
					-	

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

NZMB1-S40	265726		NZMB1-S40-SVE	112724	1 Off
NZMB1-S50	265727		NZMB1-S50-SVE	112725	
NZMB1-S63	265728		NZMB1-S63-SVE	112726	
NZMB1-S80	265729		NZMB1-S80-SVE	112727	
NZMB1-S100	265730		NZMB1-S100-SVE	112728	

Terminals as accessory			NZMB2-S125-SVE	113199	
			NZMB2-S160-SVE	113200	
			NZMB2-S200-SVE	113201	

NZMC1-S40	271403		NZMC1-S40-SVE	112748	1 Off
NZMC1-S50	271404		NZMC1-S50-SVE	112749	
NZMC1-S63	271405		NZMC1-S63-SVE	112750	
NZMC1-S80	271406		NZMC1-S80-SVE	112751	
NZMC1-S100	271407		NZMC1-S100-SVE	112752	

Terminals as accessory			NZMC2-S125-SVE	113226	
			NZMC2-S160-SVE	113227	
			NZMC2-S200-SVE	113228	

Terminals as accessory			NZMC3-S250-SVE	168453	
			NZMC3-S250-AVE	113512	
			NZMC3-S320-SVE	168454	
			NZMC3-S320-AVE	113513	
			NZMC3-S400-SVE	168455	
			NZMC3-S400-AVE	113514	
			NZMC3-S500-SVE	168456	
			NZMC3-S500-AVE	113515	

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Short-circuit releases Non-delayed $I_r = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational current AC-3 50/60 Hz 400 V I_e A	Fixed mounting with screw terminals Part no.	Article no.
Short-circuit protection Motor protection in conjunction with overload relay • With short-circuit releases • Without overload releases $I_{r = Inx...}$ • IEC/EN 60947-2						
Normal switching capacity						
50	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		
	125	8 - 14	45	99	NZMN2-S125	265739
	160	8 - 14	75	134	NZMN2-S160	265740
	200	8 - 12.5	110	196	NZMN2-S200	265741
	250	8 - 14	132	231	NZMN3-S250	109680
					-	
	320	8 - 14	160	279	NZMN3-S320	109681
					-	
	400	7 - 12.5	200	349	NZMN3-S400	109682
					-	
	500	6 - 10	250	437	NZMN3-S500	109683
					-	
Strong switching capacity						
70	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		
	125	8 - 14	45	99	NZMS2-S125	109979
	160	8 - 14	75	134	NZMS2-S160	109980
	200	8 - 12.5	110	196	NZMS2-S200	109981

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SG07921_L Symbolphoto

SG09221_L Symbolphoto

SG06821_L Symbolphoto

SG07921_L Symbolphoto

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
			For further terminal types see accessories		
NZMN1-S40	265731		NZMN1-S40-SVE	112768	1 Off
NZMN1-S50	265732		NZMN1-S50-SVE	112769	
NZMN1-S63	265733		NZMN1-S63-SVE	112770	
NZMN1-S80	265734		NZMN1-S80-SVE	112771	
NZMN1-S100	265735		NZMN1-S100-SVE	112772	
Terminals as accessory			NZMN2-S125-SVE	113253	
			NZMN2-S160-SVE	113254	
			NZMN2-S200-SVE	113255	
Terminals as accessory			NZMN3-S250-SVE	168489	
			NZMN3-S250-AVE	113523	
			NZMN3-S320-SVE	168490	
			NZMN3-S320-AVE	113524	
			NZMN3-S400-SVE	168491	
			NZMN3-S400-AVE	113525	
			NZMN3-S500-SVE	168492	
			NZMN3-S500-AVE	113526	
NZMS1-S40	109943		NZMS1-S40-SVE	112790	1 Off
NZMS1-S50	109944		NZMS1-S50-SVE	112791	
NZMS1-S63	109945		NZMS1-S63-SVE	112792	
NZMS1-S80	109946		NZMS1-S80-SVE	112793	
NZMS1-S100	109947		NZMS1-S100-SVE	112794	
Terminals as accessory			NZMS2-S125-SVE	113304	
			NZMS2-S160-SVE	113305	
			NZMS2-S200-SVE	113306	

Short-circuit protection

Motor protection in conjunction with overload relay
- With short-circuit releases
- Without overload releases $I_{r = Inx...}$
- IEC/EN 60947-2

High switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Short-circuit releases Non-delayed $I_r = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational current AC-3 50/60 Hz 400 V I_e A	Fixed mounting with screw terminals Part no.	Article no.
100	40	8 - 14	18.5	36	Screw terminals as accessories	
	50	8 - 14	22	41		
	63	8 - 14	30	55		
	80	8 - 14	37	68		
	100	8 - 12.5	45	81		
150	40	8 - 14	18.5	36	NZMH2-S40	265742
	50	8 - 14	22	41	NZMH2-S50	265743
	63	8 - 14	30	55	NZMH2-S63	265744
	80	8 - 14	37	68	NZMH2-S80	265745
	100	8 - 14	45	81	NZMH2-S100	265746
	125	8 - 14	45	99	NZMH2-S125	265747
	160	8 - 12.5	75	134	NZMH2-S160	265748
	200	8 - 12.5	110	196	NZMH2-S200	265749
	250	8 - 14	132	231	NZMH3-S250	109684
					-	
	320	8 - 14	160	279	NZMH3-S320	109685
					-	
	400	7 - 12.5	200	349	NZMH3-S400	109686
					-	
	500	6 - 10	250	437	NZMH3-S500	109687
					-	

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SG07921_L Symbolphoto

SG09221_L Symbolphoto

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
NZMH1-S40	284436		NZMH1-S40-SVE	112805	1 Off
NZMH1-S50	284437		NZMH1-S50-SVE	112806	
NZMH1-S63	284438		NZMH1-S63-SVE	112807	
NZMH1-S80	284439		NZMH1-S80-SVE	112808	
NZMH1-S100	284440		NZMH1-S100-SVE	112809	
Terminals as accessory			NZMH2-S40-SVE	113340	
			NZMH2-S50-SVE	113341	
			NZMH2-S63-SVE	113342	
			NZMH2-S80-SVE	113343	
			NZMH2-S100-SVE	113344	
			NZMH2-S125-SVE	113345	
			NZMH2-S160-SVE	113346	
			NZMH2-S200-SVE	113347	
Terminals as accessory			NZMH3-S250-SVE	168916	
			NZMH3-S250-AVE	113566	
			NZMH3-S320-SVE	168917	
			NZMH3-S320-AVE	113567	
			NZMH3-S400-SVE	168918	
			NZMH3-S400-AVE	113568	
			NZMH3-S500-SVE	168919	
			NZMH3-S500-AVE	113569	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no. / Article no.	
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

WA_SG169021_L Symbolphoto

WA_SG00222_L Symbolphoto

WA_SG01222_L Symbolphoto

50	40	20 - 40	2 - 12	NZMN2-AX40*	192001
	63	25 - 63	2 - 12	NZMN2-AX63*	192002
	100	40 - 100	2 - 12	NZMN2-AX100	192003
	160	64 - 160	2 - 12	NZMN2-AX160	192004
	350	100 - 250	2 - 12	NZMN2-AX250	192005

*For availability information please contact your local Eaton sales team.

	250	100 - 250	2 - 11	NZMN3-AX250	191599
	400	160 - 400	2 - 11	NZMN3-AX400	191600
	630	252 - 630	2 - 8	NZMN3-AX630	191601
	630	252 - 630	2 - 12	NZMN4-AX630	191418
	800	320 - 800	2 - 12	NZMN4-AX800	191419
	1000	400 - 1000	2 - 12	NZMN4-AX1000	191420
	1250	500 - 1250	2 - 12	NZMN4-AX1250	191421
	1600	640 - 1600	2 - 12	NZMN4-AX1600	191422

Strong switching capacity

WA_SG169021_L Symbolphoto

WA_SG00222_L Symbolphoto

70	40	20 - 40	2 - 12	NZMS2-AX40*	192028
	63	25 - 63	2 - 12	NZMS2-AX63*	192029
	100	40 - 100	2 - 12	NZMS2-AX100	192030
	160	64 - 160	2 - 12	NZMS2-AX160	192031
	250	100 - 250	2 - 12	NZMS2-AX250	192032

*For availability information please contact your local Eaton sales team.

	250	100 - 250	2 - 11	NZMS3-AX250	192033
	400	160 - 400	2 - 11	NZMS3-AX400	191494
	630	252 - 630	2 - 8	NZMS3-AX630	191495

Fixed mounting with box terminals Part no.	Article no.		Withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

Terminals as accessory			NZMN3-AX250-AVE	191574
NZMN3-AX400-BT	191586		NZMN3-AX400-AVE	191575
NZMN3-AX630-BT	191587		NZMN3-AX630-AVE	191576

-			NZMN4-AX630-AVE	500893
			NZMN4-AX800-AVE	500894
			NZMN4-AX1000-AVE	500895
			NZMN4-AX1250-AVE	500896
			NZMN4-AX1600-AVE	500897

Terminals as accessory			-		1 Off

Terminals as accessory			-	
			NZMS3-AX400-AVE	191503
			NZMS3-AX630-AVE	191504

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

System and cable protection

• IEC/EN 60947-2

High switching capacity

WA_SG169021_L Symbolphoto

150	40	20 - 40	2 - 12	NZMH2-AX40*	192007
	63	25 - 63	2 - 12	NZMH2-AX63*	192008
	100	40 - 100	2 - 12	NZMH2-AX100	192009
	160	64 - 160	2 - 12	NZMH2-AX160	192010
	250	100 - 250	2 - 12	NZMH2-AX250	192011

*For availability information please contact your local Eaton sales team.

WA_SG00222_L Symbolphoto

	250	100 - 250	2 - 11	NZMH3-AX250	191346
	400	160 - 400	2 - 11	NZMH3-AX400	191347
	630	252 - 630	2 - 8	NZMH3-AX630	191348

WA_SG01222_L Symbolphoto

75*	630	252 - 630	2 - 12	NZMH4-AX630	191447
	800	320 - 800	2 - 12	NZMH4-AX800	191448
	1000	400 - 1000	2 - 12	NZMH4-AX1000	191449
	1250	500 - 1250	2 - 12	NZMH4-AX1250	191450
	1600	640 - 1600	2 - 12	NZMH4-AX1600	191451

*For further information please contact your Eaton sales person.

Limiter switching capacity

WA_SG01222_L Symbolphoto

100	630	252 - 630	2 - 12	NZML4-AX630	191363
	800	320 - 800	2 - 12	NZML4-AX800	191364
	1000	400 - 1000	2 - 12	NZML4-AX1000	191365
	1250	500 - 1250	2 - 12	NZML4-AX1250	191366
	1600	640 - 1600	2 - 12	NZML4-AX1600	191322

Fixed mounting with box terminals Part no.	Article no.	Withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

Terminals as accessory		-		1 Off	

Terminals as accessory		NZMH3-AX250-AVE	191545	
		NZMH3-AX400-AVE	191546	
		NZMH3-AX630-AVE	191547	

-		NZMH4-AX630-AVE	500906	
		NZMH4-AX800-AVE	500907	
		NZMH4-AX1000-AVE	500908	
		NZMH4-AX1250-AVE	500909	
		NZMH4-AX1600-AVE	500910	

-		NZML4-AX630-AVE	500889	1 Off
		NZML4-AX800-AVE	500890	
		NZML4-AX1000-AVE	500891	
		NZML4-AX1250-AVE	500892	
		NZML4-AX1600-AVE	500878	

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases $I_r = I_n x...$ A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Rated operational power AC-3 50/60 Hz 400 V P kW	Rated operational power AC-3 50/60 Hz 690 V P kW	Rated operational current AC-3 50/60 Hz 400 V I_e A	Rated operational current AC-3 50/60 Hz 690 V I_e A	Fixed mounting with screw terminals Part no.	Article no.

Motor protection

- IEC/EN 60947-2
- With phase-failure sensitivity

Normal switching capacity

WA_SG169121_L Symbolphoto

50	90	36 - 90	2 - 18	45	75	81	78	NZMN2-MX90	191631
	140	56 - 140	2 - 18	75	132	134	134	NZMN2-MX140	191632
	220	88 - 220	2 - 14	110	200	196	202	NZMN2-MX220	191633

WA_SG00622_L Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMN3-MX220	191605
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMN3-MX350	191606
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMN3-MX450	191607
								-	

WA_SG01122_L Symbolphoto

	550	220 - 550	2 - 18	315	560	544	550	NZMN4-MX550	191428
	875	350 - 875	2 - 18	500	800	846	785	NZMN4-MX875	191429
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZMN4-MX1400	191430

Strong switching capacity

WA_SG169121_L Symbolphoto

70	90	36 - 90	2 - 18	45	75	81	78	NZMS2-MX90	191650
	140	56 - 140	2 - 18	75	132	134	134	NZMS2-MX140	191651
	220	88 - 220	2 - 14	110	200	196	202	NZMS2-MX220	191652

WA_SG00622_L Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMS3-MX220	191498
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMS3-MX350	191499
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMS3-MX450	191500
								-	

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types
see accessories

Terminals as accessory	NZMN2-MX90-SVE	191622	1 Off	
	NZMN2-MX140-SVE	191623		
	NZMN2-MX220-SVE	191624		

Terminals as accessory	NZMN3-MX220-SVE	191596	
	NZMN3-MX220-AVE	191580	
	NZMN3-MX350-SVE	191597	
	NZMN3-MX350-AVE	191581	
	NZMN3-MX450-SVE	191598	
	NZMN3-MX450-AVE	191582	

Terminals as accessory	NZMN4-MX550-AVE	500979	
	NZMN4-MX875-AVE	500980	
	NZMN4-MX1400-AVE	500978	

Terminals as accessory	NZMS2-MX90-SVE	191656	1 Off
	NZMS2-MX140-SVE	191657	
	NZMS2-MX220-SVE	191658	

Terminals as accessory	NZMS3-MX220-SVE	191514	
	NZMS3-MX220-AVE	191507	
	NZMS3-MX350-SVE	191515	
	NZMS3-MX350-AVE	191508	
	NZMS3-MX450-SVE	191516	
	NZMS3-MX450-AVE	191509	

Switching capacity	Rated current =	Setting range		Rated operational power		Rated operational current		Fixed mounting with screw terminals Part no.	Article no.
400/415V 50/60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	AC-3 50/60 Hz		AC-3 50/60 Hz			
				400 V	690 V	400 V	690 V		
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$	P kW	P kW	I_e A	I_e A		

Motor protection

- IEC/EN 60947-2
- With phase-failure sensitivity

High switching capacity

WA_SG169121_L Symbolphoto

150	90	36 - 90	2 - 18	45	75	81	78	NZMH2-MX90	191681
	140	56 - 140	2 - 18	75	132	134	134	NZMH2-MX140	191682
	220	88 - 220	2 - 14	110	200	196	202	NZMH2-MX220	191683

WA_SG00622_L Symbolphoto

	220	88 - 220	2 - 18	110	200	196	202	NZMH3-MX220	191352
								-	
	350	140 - 350	2 - 15	200	315	349	316	NZMH3-MX350	191367
								-	
	450	180 - 450	2 - 12	250	450	437	446	NZMH3-MX450	191368
								-	

WA_SG01122_L Symbolphoto

75*	550	220 - 550	2 - 18	315	560	544	550	NZMH4-MX550	191457
	875	350 - 875	2 - 18	500	800	846	785	NZMH4-MX875	191458
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZMH4-MX1400	191459

**For further information please contact your Eaton sales person.

Limiter switching capacity

WA_SG01122_L Symbolphoto

100	550	220 - 550	2 - 18	315	560	544	550	NZML4-MX550	191328
	875	350 - 875	2 - 18	500	800	846	785	NZML4-MX875	191329
	1400	560 - 1400	2 - 14	800	1400	1354	1374	NZML4-MX1400	191330

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types
see accessories

Terminals as accessory		NZMH2-MX90-SVE	191675	1 Off
		NZMH2-MX140-SVE	191676	
		NZMH2-MX220-SVE	191677	

Terminals as accessory		NZMH3-MX220-SVE	191372
		NZMH3-MX220-AVE	191551
		NZMH3-MX350-SVE	191373
		NZMH3-MX350-AVE	191552
		NZMH3-MX450-SVE	191374
		NZMH3-MX450-AVE	191553

Terminals as accessory		NZMH4-MX550-AVE	500973
		NZMH4-MX875-AVE	500974

Terminals as accessory		NZML4-MX550-AVE	500976	1 Off
		NZML4-MX875-AVE	500977	
		NZML4-MX1400-AVE	500975	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals: Part no. / Article no.	
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x \ldots$	$I_i = I_n x...$		
System and cable protection, selectivity and generator protection • IEC/EN 60947-2						
Normal switching capacity						
50	40	20 - 40	2 - 10	2 - 18	NZMN2-VX40*	192013
	63	25 - 63	2 - 10	2 - 18	NZMN2-VX63*	192014
	100	40 - 100	2 - 10	2 - 18	NZMN2-VX100	191628
	160	64 - 160	2 - 10	2 - 18	NZMN2-VX160	191629
	250	100 - 250	2 - 10	2 - 12	NZMN2-VX250	191630
	*For availability information please contact your local Eaton sales team.					
	250	100 - 250	2 - 10	2 - 18	NZMN3-VX250	191602
					-	
	400	160 - 400	2 - 10	2 - 12	NZMN3-VX400	191603
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMN3-VX630	191604
					-	
	630	252 - 630	2 - 10	2 - 18	NZMN4-VX630	191423
	800	320 - 800	2 - 10	2 - 18	NZMN4-VX800	191424
	1000	400 - 1000	2 - 10	2 - 18	NZMN4-VX1000	191425
	1250	500 - 1250	2 - 10	2 - 15	NZMN4-VX1250	191426
	1600	640 - 1600	2 - 10	2 - 12	NZMN4-VX1600	191427
Strong switching capacity						
70	40	20 - 40	2 - 10	2 - 18	NZMS2-VX40*	192035
	63	25 - 63	2 - 10	2 - 18	NZMS2-VX63*	192036
	100	40 - 100	2 - 10	2 - 18	NZMS2-VX100	191647
	160	64 - 160	2 - 10	2 - 18	NZMS2-VX160	191648
	250	100 - 250	2 - 10	2 - 12	NZMS2-VX250	191649
	*For availability information please contact your local Eaton sales team.					
	250	125 - 250	2 - 10	2 - 18	NZMS3-VX250	192037
	400	160 - 400	2 - 10	2 - 12	NZMS3-VX400	191496
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMS3-VX630	191497
					-	

WA_SG168921_L Symbolphoto

WA_SG00422_L Symbolphoto

WA_SG01022_L Symbolphoto

WA_SG_168921_L Symbolphoto

WA_SG00422_L Symbolphoto

Fixed mounting with box terminals: Part no.	Article no.		Plug-in/withdrawable units: Part no.	Article no.	Std. pack
			Order base separately		
			For further terminal types see accessories		
Terminals as accessory			-		1 Off
NZMN2-VX100-BT	191625		NZMN2-VX100-SVE	191619	
NZMN2-VX160-BT	191626		NZMN2-VX160-SVE	191620	
NZMN2-VX250-BT	191627		NZMN2-VX250-SVE	191621	
Terminals as accessory			NZMN3-VX250-SVE	191593	
			NZMN3-VX250-AVE	191577	
NZMN3-VX400-BT	191588		NZMN3-VX400-SVE	191594	
Terminals as accessory			NZMN3-VX400-AVE	191578	
NZMN3-VX630-BT	191589		NZMN3-VX630-SVE	191595	
Terminals as accessory			NZMN3-VX630-AVE	191579	
-			NZMN4-VX630-AVE	191413	
-			NZMN4-VX800-AVE	191414	
-			NZMN4-VX1000-AVE	191415	
-			NZMN4-VX1250-AVE	191416	
-			NZMN4-VX1600-AVE	191417	
Terminals as accessory			-		1 Off
			NZMS2-VX100-SVE	191653	
			NZMS2-VX160-SVE	191654	
			NZMS2-VX250-SVE	191655	
Terminals as accessory			-		
			NZMS3-VX400-SVE	191512	
			NZMS3-VX400-AVE	191505	
			NZMS3-VX630-SVE	191513	
			NZMS3-VX630-AVE	191506	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x \ldots$	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- IEC/EN 60947-2

High switching capacity

WA_SG_168921_L Symbolphoto

150	40	20 - 40	2 - 10	2 - 18	NZMH2-VX40*	192017
	63	25 - 63	2 - 10	2 - 18	NZMH2-VX63*	192018
	100	40 - 100	2 - 10	2 - 18	NZMH2-VX100	191678
	160	64 - 160	2 - 10	2 - 18	NZMH2-VX160	191679
	250	100 - 250	2 - 10	2 - 12	NZMH2-VX250	191680

*For availability information please contact your local Eaton sales team.

wa_ren_01118_r Symbolphoto

	250	100 - 250	2 - 10	2 - 18	NZMH3-VX250	191349
					-	
	400	160 - 400	2 - 10	2 - 12	NZMH3-VX400	191350
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMH3-VX630	191351
					-	

WA_SG01022_L Symbolphoto

75*	630	252 - 630	2 - 10	2 - 18	NZMH4-VX630	191452
	800	320 - 800	2 - 10	2 - 18	NZMH4-VX800	191453
	1000	400 - 1000	2 - 10	2 - 18	NZMH4-VX1000	191454
	1250	500 - 1250	2 - 10	2 - 15	NZMH4-VX1250	191455
	1600	640 - 1600	2 - 10	2 - 12	NZMH4-VX1600	191456

*For further information please contact your Eaton sales person.

Limiter switching capacity

WA_SG01022_L Symbolphoto

100	630	252 - 630	2 - 10	2 - 18	NZML4-VX630	191323
	800	320 - 800	2 - 10	2 - 18	NZML4-VX800	191324
	1000	400 - 1000	2 - 10	2 - 18	NZML4-VX1000	191325
	1250	500 - 1250	2 - 10	2 - 15	NZML4-VX1250	191326
	1600	640 - 1600	2 - 10	2 - 12	NZML4-VX1600	191327

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory		-			1 Off
		NZMH2-VX100-SVE	191672		
		NZMH2-VX160-SVE	191673		
		NZMH2-VX250-SVE	191674		
Terminals as accessory		NZMH3-VX250-SVE	191369		
-		NZMH3-VX250-AVE	191548		
NZMH3-VX400-BT	191557	NZMH3-VX400-SVE	191370		
-		NZMH3-VX400-AVE	191549		
NZMH3-VX630-BT	191558	NZMH3-VX630-SVE	191371		
-		NZMH3-VX630-AVE	191550		
-		NZMH4-VX630-AVE	193328		
		NZMH4-VX800-AVE	193329		
		NZMH4-VX1000-AVE	193330		
		NZMH4-VX1250-AVE	193331		
		NZMH4-VX1600-AVE	193332		
-		NZML4-VX630-AVE	500922		1 Off
		NZML4-VX800-AVE	500923		
		NZML4-VX1000-AVE	500919		
		NZML4-VX1250-AVE	500920		
		NZML4-VX1600-AVE	500921		

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release Alarm or trip	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ …	$I_i = I_n x...$	$I_G = I_n x...$		

System and cable protection, selectivity, generator and earth fault protection

• IEC/EN 60947-2

Normal switching capacity

SG07721_L Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-VX40-T*	193287
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-VX63-T*	193288
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-VX100-T	193289
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-VX160-T	193290
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-VX250-T	193291

*For availability information please contact your local Eaton sales team.

SG09121_L Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-VX250-T	191583
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-VX400-T	191584
	630	252 - 630	1.5 - 7	2 - 8	125 - 630	NZMN3-VX630-T	191585

SG10121_L Symbolphoto

	630	315 - 630	2 - 10	2 - 18	125 - 630	NZMN4-VX630-T	193310
	800	400 - 800	2 - 10	2 - 18	160 - 800	NZMN4-VX800-T	193311
	1000	500 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-VX1000-T	193312
	1250	630 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-VX1250-T	193313
	1600	800 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-VX1600-T	193314

Fixed mounting with box terminals Part no.	Article no.		Withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

Terminals as accessory			NZMN3-VX250-T-AVE	191590	1 Off
			NZMN3-VX400-T-AVE	191591	
			NZMN3-VX630-T-AVE	191592	
-			NZMN4-VX630-T-AVE	500969	1 Off
			NZMN4-VX800-T-AVE	500971	
			NZMN4-VX1000-T-AVE	500963	
			NZMN4-VX1250-T-AVE	500965	
			NZMN4-VX1600-T-AVE	500967	

System and cable protection, selectivity, generator and earth fault protection

• IEC/EN 60947-2

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release Alarm or trip	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ …	$I_i = I_n x...$	$I_G = I_n x...$		
Strong switching capacity							
70	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-VX400-T	191501
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-VX630-T	191502
High switching capacity							
150	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-VX40-T*	193293
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-VX63-T*	193294
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-VX100-T	193295
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-VX160-T	193296
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-VX250-T	193297
	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-VX250-T	191554
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-VX400-T	191555
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-VX630-T	191556
75*	630	252 - 630	2 - 10	2 - 18	125 - 630	NZMH4-VX630-T	193315
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-VX800-T	193316
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-VX1000-T	193317
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-VX1250-T	193318
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-VX1600-T	193319
Limiter switching capacity							
100	630	252 - 630	2 - 10	2 - 18	125 - 630	NZML4-VX630-T	500937
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZML4-VX800-T	500938
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZML4-VX1000-T	500934
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZML4-VX1250-T	500935

*For availability information please contact your local Eaton sales team.

*For further information please contact your Eaton sales person.

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SG07721_L Symbolphoto

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SG10121_L Symbolphoto

SG10121_L Symbolphoto

Fixed mounting with box terminals Part no.	Article no.		Withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
					For further terminal types see accessories
Terminals as accessory			NZMS3-VX400-T-AVE	191510	1 Off
			NZMS3-VX630-T-AVE	191511	
Terminals as accessory					1 Off
Terminals as accessory			NZMH3-VX250-T-AVE	191559	1 Off
			NZMH3-VX400-T-AVE	191560	
			NZMH3-VX630-T-AVE	191561	
-			NZMH4-VX630-T-AVE	500953	1 Off
			NZMH4-VX800-T-AVE	500954	
			NZMH4-VX1000-T-AVE	500950	
			NZMH4-VX1250-T-AVE	500951	
			NZMH4-VX1600-T-AVE	500952	
			NZML4-VX630-T-AVE	500944	
			NZML4-VX800-T-AVE	500945	
			NZML4-VX1000-T-AVE	500941	1 Off
			NZML4-VX1250-T-AVE	500942	
			NZML4-VX1600-T-AVE	500943	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

Motor protection

- Energy metering class I up to IEC61557-12
- With phase-failure sensitivity
- IEC/EN 60947-2

Normal switching capacity

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50	40	20 - 40	2 - 18	NZMN2-PMX40*	192104
	63	25 - 63	2 - 18	NZMN2-PMX63*	192105
	100	40 - 100	2 - 18	NZMN2-PMX100	192106
	160	64 - 160	2 - 18	NZMN2-PMX160	192107
	220	88 - 220	2 - 14	NZMN2-PMX220	192108

*For availability information please contact your local Eaton sales team.

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250	100 - 250	2 - 18	NZMN3-PMX250	192322
			-	
350	140 - 350	2 - 15	NZMN3-PMX350	192323
			-	
450	180 - 450	2 - 12	NZMN3-PMX450	192324
			-	

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550	220 - 550	2 - 18	NZMN4-PMX550	189681
875	350 - 875	2 - 18	NZMN4-PMX875	189682
1400	560 - 1400	2 - 14	NZMN4-PMX1400	189683

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-PMX40-SVE*	192116	1 Off
			NZMN2-PMX63-SVE*	192117	
			NZMN2-PMX100-SVE	192118	
			NZMN2-PMX160-SVE	192119	
			NZMN2-PMX220-SVE	192120	

*For availability information please contact your local Eaton sales team.

Terminals as accessory			NZMN3-PMX250-SVE	192328
			NZMN3-PMX250-AVE	192334
			NZMN3-PMX350-SVE	192329
			NZMN3-PMX350-AVE	192335
			NZMN3-PMX450-SVE	192330
			NZMN3-PMX450-AVE	192336
-			NZMN4-PMX550-AVE	189687
			NZMN4-PMX875-AVE	189688
			NZMN4-PMX1400-AVE	189689

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_i = I_n x...$		

Motor protection

- Energy metering class I up to IEC61557-12
- With phase-failure sensitivity
- IEC/EN 60947-2

High switching capacity

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150	40	20 - 40	2 - 18	NZMH2-PMX40*	192110
	63	25 - 63	2 - 18	NZMH2-PMX63*	192111
	100	40 - 100	2 - 18	NZMH2-PMX100	192112
	160	64 - 160	2 - 18	NZMH2-PMX160	192113
	220	88 - 220	2 - 14	NZMH2-PMX220	192114

*For availability information please contact your local Eaton sales team.

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	250	100 - 250	2 - 18	NZMH3-PMX250	192325
				-	
	350	140 - 350	2 - 15	NZMH3-PMX350	192326
				-	
	450	180 - 450	2 - 12	NZMH3-PMX450	192327
				-	

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75*	550	220 - 550	2 - 18	NZMH4-PMX550	189684
	875	350 - 875	2 - 18	NZMH4-PMX875	189685
	1400	560 - 1400	2 - 14	NZMH4-PMX1400	189686

*For further information please contact your Eaton sales person

Limiter switching capacity

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100	550	220 - 550	2 - 18	NZML4-PMX550	189706
	875	350 - 875	2 - 18	NZML4-PMX875	189707
	1400	560 - 1400	2 - 14	NZML4-PMX1400	189708

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-PMX40-SVE*	192122	1 Off
			NZMH2-PMX63-SVE*	192123	
			NZMH2-PMX100-SVE	192124	
			NZMH2-PMX160-SVE	192125	
			NZMH2-PMX220-SVE	192126	
Terminals as accessory			NZMH3-PMX250-SVE	192331	
			NZMH3-PMX250-AVE	192337	
			NZMH3-PMX350-SVE	192332	
			NZMH3-PMX350-AVE	192338	
			NZMH3-PMX450-SVE	192333	
			NZMH3-PMX450-AVE	192339	
-			NZMH4-PMX550-AVE	189690	
			NZMH4-PMX875-AVE	189691	
			NZMH4-PMX1400-AVE	189692	
-			NZML4-PMX550-AVE	500997	1 Off
			NZML4-PMX875-AVE	500998	
			NZML4-PMX1400-AVE	500996	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x \ldots$	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

Normal switching capacity

SG07621_L Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	NZMN2-PX40*	192237
	63	25 - 63	2 - 10	2 - 18	NZMN2-PX63*	192238
	100	40 - 100	2 - 10	2 - 18	NZMN2-PX100	192239
	160	64 - 160	2 - 10	2 - 18	NZMN2-PX160	192240
	250	100 - 250	2 - 10	2 - 12	NZMN2-PX250	192241

*For availability information please contact your local Eaton sales team.

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250	100 - 250	2 - 10	2 - 18	NZMN3-PX250	192354
				-	
400	160 - 400	2 - 10	2 - 12	NZMN3-PX400	192355
				-	
630	252 - 630	1.5 - 7	2 - 8	NZMN3-PX630	192356
				-	

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630	252 - 630	2 - 10	2 - 18	NZMN4-PX630	189601
800	320 - 800	2 - 10	2 - 18	NZMN4-PX800	189602
1000	400 - 1000	2 - 10	2 - 18	NZMN4-PX1000	189603
1250	500 - 1250	2 - 10	2 - 15	NZMN4-PX1250	189604
1600	640 - 1600	2 - 10	2 - 12	NZMN4-PX1600	189605

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
NZMN2-PX40-BT*	192046		NZMN2-PX40-SVE*	192162	1 Off
NZMN2-PX63-BT*	192047		NZMN2-PX63-SVE*	192163	
NZMN2-PX100-BT	192048		NZMN2-PX100-SVE	192164	
NZMN2-PX160-BT	192049		NZMN2-PX160-SVE	192165	
NZMN2-PX250-BT	192050		NZMN2-PX250-SVE	192166	
NZMN3-PX250-BT	192363		NZMN3-PX250-SVE	192264	
-			NZMN3-PX250-AVE	192348	
NZMN3-PX400-BT	192364		NZMN3-PX400-SVE	192340	
-			NZMN3-PX400-AVE	192349	
NZMN3-PX630-BT	192365		NZMN3-PX630-SVE	192341	
-			NZMN3-PX630-AVE	192350	
-			NZMN4-PX630-AVE	189621	
			NZMN4-PX800-AVE	189622	
			NZMN4-PX1000-AVE	189623	
			NZMN4-PX1250-AVE	189624	
			NZMN4-PX1600-AVE	189625	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x \ldots$	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

Strong switching capacity

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70	40	20 - 40	2 - 10	2 - 18	NZMS2-PX40*	192244
	63	25 - 63	2 - 10	2 - 18	NZMS2-PX63*	192245
	100	40 - 100	2 - 10	2 - 18	NZMS2-PX100	192246
	160	64 - 160	2 - 10	2 - 18	NZMS2-PX160	192247
	250	100 - 250	2 - 10	2 - 12	NZMS2-PX250	192248

* For availability information please contact your local Eaton sales team.

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	250	100 - 250	2 - 10	2 - 18	NZMS3-PX250	192357
					-	
	400	160 - 400	2 - 10	2 - 12	NZMS3-PX400	192358
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMS3-PX630	192359
					-	

High switching capacity

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150	40	20 - 40	2 - 10	2 - 18	NZMH2-PX40*	192039
	63	25 - 63	2 - 10	2 - 18	NZMH2-PX63*	192040
	100	40 - 100	2 - 10	2 - 18	NZMH2-PX100	192041
	160	64 - 160	2 - 10	2 - 18	NZMH2-PX160	192042
	250	100 - 250	2 - 10	2 - 12	NZMH2-PX250	192043

*For availability information please contact your local Eaton sales team.

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	250	100 - 250	2 - 10	2 - 18	NZMH3-PX250	192360
					-	
	400	160 - 400	2 - 10	2 - 12	NZMH3-PX400	192361
					-	
	630	252 - 630	1.5 - 7	2 - 8	NZMH3-PX630	192362
					-	

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75*	630	315 - 630	2 - 10	2 - 18	NZMH4-PX630	189606
	800	400 - 800	2 - 10	2 - 18	NZMH4-PX800	189607
	1000	500 - 1000	2 - 10	2 - 18	NZMH4-PX1000	189608
	1250	630 - 1250	2 - 10	2 - 15	NZMH4-PX1250	189609
	1600	800 - 1600	2 - 10	2 - 12	NZMH4-PX1600	189610

*For further information please contact your Eaton sales person.

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
NZMS2-PX40-BT*	192127		NZMS2-PX40-SVE*	192169	1 Off
NZMS2-PX63-BT*	192128		NZMS2-PX63-SVE*	192170	
NZMS2-PX100-BT	192129		NZMS2-PX100-SVE	192171	
NZMS2-PX160-BT	192130		NZMS2-PX160-SVE	192172	
NZMS2-PX250-BT	192131		NZMS2-PX250-SVE	192173	
NZMS3-PX250-BT	192366		NZMS3-PX250-SVE	192342	
-			NZMS3-PX250-AVE	192351	
NZMS3-PX400-BT	192367		NZMS3-PX400-SVE	192343	
-			NZMS3-PX400-AVE	192352	
NZMS3-PX630-BT	192251		NZMS3-PX630-SVE	192344	
-			NZMS3-PX630-AVE	192353	

NZMH2-PX40-BT*	192134		NZMH2-PX40-SVE*	192176	1 Off
NZMH2-PX63-BT*	192135		NZMH2-PX63-SVE*	192177	
NZMH2-PX100-BT	192136		NZMH2-PX100-SVE	192178	
NZMH2-PX160-BT	192137		NZMH2-PX160-SVE	192179	
NZMH2-PX250-BT	192138		NZMH2-PX250-SVE	192180	
NZMH3-PX250-BT	192252		NZMH3-PX250-SVE	192345	
-			NZMH3-PX250-AVE	192265	
NZMH3-PX400-BT	192253		NZMH3-PX400-SVE	192346	
-			NZMH3-PX400-AVE	192266	
NZMH3-PX630-BT	192254		NZMH3-PX630-SVE	192347	
-			NZMH3-PX630-AVE	192267	
-			NZMH4-PX630-AVE	189626	
			NZMH4-PX800-AVE	189627	
			NZMH4-PX1000-AVE	189628	
			NZMH4-PX1250-AVE	189629	
			NZMH4-PX1600-AVE	189630	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	$I_{sd} = I_r x$ …	$I_i = I_n x...$			

System and cable protection, selectivity and generator protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2

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Limiter switching capacity

100	630	252 - 630	2 - 10	2 - 18	NZML4-PX630	189697	1 Off
	800	320 - 800	2 - 10	2 - 18	NZML4-PX800	189698	
	1000	400 - 1000	2 - 10	2 - 18	NZML4-PX1000	189699	
	1250	500 - 1250	2 - 10	2 - 15	NZML4-PX1250	189700	
	1600	640 - 1600	2 - 10	2 - 12	NZML4-PX1600	189701	

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

NZML4-PX630-AVE	500989	1 Off
NZML4-PX800-AVE	500990	
NZML4-PX1000-AVE	500986	
NZML4-PX1250-AVE	500987	
NZML4-PX1600-AVE	500988	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n$x... A	$I_{sd} = I_r$x . . .	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode (Arcflash Reduction Maintenance System™) and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

SG07621_L Symbolphoto

50	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-PX40-TZ*	192141
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-PX40-TZ*	192142
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-PX100-TZ	192143
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-PX160-TZ	192144
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-PX250-TZ	192145

*For availability information please contact your local Eaton sales team.

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	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-PX250-TAZ	192255
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-PX400-TAZ	192256
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-PX630-TAZ	192257

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	630	252 - 630	2 - 10	2 - 18	126 - 630	NZMN4-PX630-TAZ	189611
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-PX800-TAZ	189612
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-PX1000-TAZ	189613
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-PX1250-TAZ	189614
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-PX1600-TAZ	189615

Strong switching capacity

SG07621_L Symbolphoto

70	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMS2-PX40-TZ*	192148
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMS2-PX40-TZ*	192149
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMS2-PX100-TZ	192150
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMS2-PX160-TZ	192151
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMS2-PX250-TZ	192152

*For availability information please contact your local Eaton sales team.

SG08921_L Symbolphoto

	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMS3-PX250-TAZ	192258
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-PX400-TAZ	192259
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-PX630-TAZ	192260

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-PX40-TZ-SVE*	192183	1 Off
			NZMN2-PX63-TZ-SVE*	192184	
			NZMN2-PX100-TZ-SVE	192185	
			NZMN2-PX160-TZ-SVE	192186	
			NZMN2-PX250-TZ-SVE	192187	

Terminals as accessory			NZMN3-PX250-TAZ-AVE	192268
			NZMN3-PX400-TAZ-AVE	192269
			NZMN3-PX630-TAZ-AVE	192270

-			NZMN4-PX630-TAZ-AVE	189631
			NZMN4-PX800-TAZ-AVE	189632
			NZMN4-PX1000-TAZ-AVE	189633
			NZMN4-PX1250-TAZ-AVE	189634
			NZMN4-PX1600-TAZ-AVE	189635

Terminals as accessory			NZMS2-PX40-TZ-SVE*	192190	1 Off
			NZMS2-PX63-TZ-SVE*	192191	
			NZMS2-PX100-TZ-SVE	192192	
			NZMS2-PX160-TZ-SVE	192193	
			NZMS2-PX250-TZ-SVE	192194	

Terminals as accessory			NZMS3-PX250-TAZ-AVE	192271
			NZMS3-PX400-TAZ-AVE	192272
			NZMS3-PX630-TAZ-AVE	192273

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A	$I_r = I_nx...$ A	$I_{sd} = I_rx$ . . .	$I_i = I_nx...$	$I_G = I_nx...$		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode (Arcflash Reduction Maintenance System™) and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

High switching capacity

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150	40	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-PX40-TZ*	192155
	63	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-PX63-TZ*	192156
	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-PX100-TZ	192157
	160	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-PX160-TZ	192158
	250	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-PX250-TZ	192159

*For availability information please contact your local Eaton sales team.

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	250	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-PX250-TAZ	192261
	400	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-PX400-TAZ	192262
	630	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-PX630-TAZ	192263

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75*	630	252 - 630	2 - 10	2 - 18	126 - 630	NZMH4-PX630-TAZ	189616
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-PX800-TAZ	189617
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-PX1000-TAZ	189618
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-PX1250-TAZ	189619
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-PX1600-TAZ	189620

*For further information please contact your Eaton sales person.

Limiter switching capacity

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100	630	252 - 630	2 - 10	2 - 18	126 - 630	NZML4-PX630-TAZ	500984
	800	320 - 800	2 - 10	2 - 18	160 - 800	NZML4-PX800-TAZ	500985
	1000	400 - 1000	2 - 10	2 - 18	200 - 1000	NZML4-PX1000-TAZ	500981
	1250	500 - 1250	2 - 10	2 - 15	250 - 1250	NZML4-PX1250-TAZ	500982
	1600	640 - 1600	2 - 10	2 - 12	320 - 1600	NZML4-PX1600-TAZ	500983

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMH2-PX40-TZ-SVE*	192197	1 Off
			NZMH2-PX63-TZ-SVE*	192198	
			NZMH2-PX100-TZ-SVE	192199	
			NZMH2-PX160-TZ-SVE	192200	
			NZMH2-PX250-TZ-SVE	192201	
Terminals as accessory			NZMH3-PX250-TAZ-AVE	192274	
			NZMH3-PX400-TAZ-AVE	192275	
			NZMH3-PX630-TAZ-AVE	192276	
-			NZMH4-PX630-TAZ-AVE	189636	
			NZMH4-PX800-TAZ-AVE	189637	
			NZMH4-PX1000-TAZ-AVE	189638	
			NZMH4-PX1250-TAZ-AVE	189639	
			NZMH4-PX1600-TAZ-AVE	189640	
-			NZML4-PX630-TAZ-AVE	500994	
			NZML4-PX800-TAZ-AVE	500995	
			NZML4-PX1000-TAZ-AVE	500991	
			NZML4-PX1250-TAZ-AVE	500992	
			NZML4-PX1600-TAZ-AVE	500993	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals Part no. Article no.	
			Overload releases	Short-circuit releases Non-delayed		
	Phase conductor	Neutral conductor				
I_{cu}	$I_n = I_u$	$I_r = I_n$x... x % of phase conductor	$I_r = I_n$x...	$I_i = I_n$x...		
kA	A	%	A			

System and cable protection

- IEC/EN 60947-2

Basic switching capacity

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25	20	100	15 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		

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125	100	100 - 125	6 - 10	NZMB2-4-A125	265847	
160	100	125 - 160	6 - 10	NZMB2-4-A160	265849	
	60	125 - 160	6 - 10	NZMB2-4-A160/100	265850	
200	100	160 - 200	6 - 10	NZMB2-4-A200	265852	
	60	160 - 200	6 - 10	NZMB2-4-A200/125	265853	
250	100	200 - 250	6 - 10	NZMB2-4-A250	265855	
	60	200 - 250	6 - 10	NZMB2-4-A250/160	265856	
300	100	240 - 300	5 - 8.3	NZMB2-4-A300	107582	
	60	240 - 300	5 - 8.3	NZMB2-4-A300/200	107583	

Fixed mounting with box terminals Part no.	Article no.	Plug-in units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

NZMB1-4-A20	281237	-		1 Off
NZMB1-4-A25	281239			
NZMB1-4-A32	281241			
NZMB1-4-A40	265799			
NZMB1-4-A50	265801			
NZMB1-4-A63	265803			
NZMB1-4-A80	265805			
NZMB1-4-A100	265807			
NZMB1-4-A125	265809			
NZMB1-4-A160	281243			

Terminals as accessory		NZMB2-4-A125-SVE	113207
		NZMB2-4-A160-SVE	113209
		NZMB2-4-A160/100-SVE	113210
		NZMB2-4-A200-SVE	113212
		NZMB2-4-A200/125-SVE	113213
		NZMB2-4-A250-SVE	113215
		NZMB2-4-A250/160-SVE	113216
		-	
		-	

System and cable protection

- IEC/EN 60947-2

Comfort switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current: Phase conductor $I_n = I_u$ A	Neutral conductor $I_r = I_n$x... x % of phase conductor %	Setting range: Overload releases $I_r = I_n$x... A	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
									Order base separately		
36	20	100	15 - 20	350 A fixed	Screw terminals as accessories						
	25	100	20 - 25	350 A fixed							
	32	100	25 - 32	350 A fixed							
	40	100	32 - 40	8 - 10							
	50	100	40 - 50	6 - 10							
	63	100	50 - 63	6 - 10							
	80	100	63 - 80	6 - 10							
	100	100	80 - 100	6 - 10							
	125	100	100 - 125	6 - 10							
	160	100	125 - 160	1280 A fixed							

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125	100	100 - 125	6 - 10	NZMC2-4-A125	271430	Terminals as accessory			NZMC2-4-A125-SVE	113231	
160	100	125 - 160	6 - 10	NZMC2-4-A160	271432				NZMC2-4-A160-SVE	113233	
	60	125 - 160	6 - 10	NZMC2-4-A160/100	271433				NZMC2-4-A160/100-SVE	113234	
200	100	160 - 200	6 - 10	NZMC2-4-A200	271435				NZMC2-4-A200-SVE	113236	
	60	160 - 200	6 - 10	NZMC2-4-A200/125	271436				NZMC2-4-A200/125-SVE	113237	
250	100	200 - 250	6 - 10	NZMC2-4-A250	271438				NZMC2-4-A250-SVE	113239	
	60	200 - 250	6 - 10	NZMC2-4-A250/160	271439				NZMC2-4-A250/160-SVE	113240	
300	100	240 - 300	5 - 8.3	NZMC2-4-A300	107584				-		
	60	240 - 300	5 - 8.3	NZMC2-4-A300/200	107585				-		

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320	100	250 - 320	6 - 10	-		Terminals as accessory			NZMC3-4-A320-SVE	168464	
	60	250 - 320	6 - 10	-					NZMC3-4-A320/200-SVE	168465	
	100	250 - 320	6 - 10	NZMC3-4-A320	109688				NZMC3-4-A320-AVE	113516	
	60	250 - 320	6 - 10	NZMC3-4-A320/200	109689				NZMC3-4-A320/200-AVE	113517	
400	100	320 - 400	6 - 10	-					NZMC3-4-A400-SVE	168466	
	60	320 - 400	6 - 10	-					NZMC3-4-A400/250-SVE	168467	
	100	320 - 400	6 - 10	NZMC3-4-A400	109690				NZMC3-4-A400-AVE	113518	
	60	320 - 400	6 - 10	NZMC3-4-A400/250	109691				NZMC3-4-A400/250-AVE	113519	
500	100	400 - 500	6 - 10	-					NZMC3-4-A500-SVE	168468	
	60	400 - 500	6 - 10	-					NZMC3-4-A500/320-SVE	168469	
	100	400 - 500	6 - 10	NZMC3-4-A500	109692				NZMC3-4-A500-AVE	113520	
	60	400 - 500	6 - 10	NZMC3-4-A500/320	109693				NZMC3-4-A500/320-AVE	113521	

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For further terminal types see accessories

NZMC1-4-A20	283300	-		1 Off
NZMC1-4-A25	283302	-		
NZMC1-4-A32	283304	-		
NZMC1-4-A40	271408	-		
NZMC1-4-A50	271410	-		
NZMC1-4-A63	271412	-		
NZMC1-4-A80	271414	-		
NZMC1-4-A100	271416	-		
NZMC1-4-A125	271418	-		
NZMC1-4-A160	283306	-		

System and cable protection

- IEC/EN 60947-2

Normal switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current: Phase conductor $I_n = I_u$ A	Neutral conductor $I_r = I_n x...$ x % of phase conductor %	Setting range: Overload releases $I_r = I_n x...$ A	Setting range: Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no. (Order base separately)	Article no.	Std. pack
									For further terminal types see accessories		
50	20	100	15 - 20	350 A fixed	Screw terminals as accessories		NZMN1-4-A20	281245	-		1 Off
	25	100	20 - 25	350 A fixed			NZMN1-4-A25	281247	-		
	32	100	25 - 32	350 A fixed			NZMN1-4-A32	281249	-		
	40	100	32 - 40	8 - 10			NZMN1-4-A40	265811	-		
	50	100	40 - 50	6 - 10			NZMN1-4-A50	265813	-		
	63	100	50 - 63	6 - 10			NZMN1-4-A63	265815	-		
	80	100	63 - 80	6 - 10			NZMN1-4-A80	265817	-		
	100	100	80 - 100	6 - 10			NZMN1-4-A100	265819	-		
	125	100	100 - 125	6 - 10			NZMN1-4-A125	265821	-		
	160	100	125 - 160	1280 A fixed			NZMN1-4-A160	281251	-		
125	100	100 - 125	6 - 10	NZMN2-4-A125		265858	Terminals as accessory	-	NZMN2-4-A125-SVE	113264	
160	100	125 - 160	6 - 10	NZMN2-4-A160		265860	NZMN2-4-A160-BT	147393	NZMN2-4-A160-SVE	113266	
	60	125 - 160	6 - 10	NZMN2-4-A160/100		265861	Terminals as accessory	-	NZMN2-4-A160/100-SVE	113267	
200	100	160 - 200	6 - 10	NZMN2-4-A200		265863	NZMN2-4-A200-BT	147394	NZMN2-4-A200-SVE	113269	
	60	160 - 200	6 - 10	NZMN2-4-A200/125		265864	Terminals as accessory	-	NZMN2-4-A200/125-SVE	113270	
250	100	200 - 250	6 - 10	NZMN2-4-A250		265866	NZMN2-4-A250-BT	147395	NZMN2-4-A250-SVE	113272	
	60	200 - 250	6 - 10	NZMN2-4-A250/160		265867	Terminals as accessory	-	NZMN2-4-A250/160-SVE	113273	
300	100	240 - 300	5 - 8.3	NZMN2-4-A300		107586	Terminals as accessory	-	-		
	60	240 - 300	5 - 8.3	NZMN2-4-A300/200		107587			-		
320	100	250 - 320	6 - 10	-			Terminals as accessory	-	NZMN3-4-A320-SVE	168508	
	60	250 - 320	6 - 10	-				-	NZMN3-4-A320/200-SVE	168509	
	100	250 - 320	6 - 10	NZMN3-4-A320		109694		-	NZMN3-4-A320-AVE	113532	
	60	250 - 320	6 - 10	NZMN3-4-A320/200		109695		-	NZMN3-4-A320/200-AVE	113533	
400	100	320 - 400	6 - 10	-				-	NZMN3-4-A400-SVE	168510	
	60	320 - 400	6 - 10	-				-	NZMN3-4-A400/250-SVE	168511	
	100	320 - 400	6 - 10	NZMN3-4-A400		109696		-	NZMN3-4-A400-AVE	113534	
	60	320 - 400	6 - 10	NZMN3-4-A400/250		109697		-	NZMN3-4-A400/250-AVE	113535	
500	100	400 - 500	6 - 10	-				-	NZMN3-4-A500-SVE	168512	
	60	400 - 500	6 - 10	-				-	NZMN3-4-A500/320-SVE	168513	
	100	400 - 500	6 - 10	NZMN3-4-A500		109698		-	NZMN3-4-A500-AVE	113536	
	60	400 - 500	6 - 10	NZMN3-4-A500/320		109699			NZMN3-4-A500/320-AVE	113537	

SG07021_L Symbolphoto

SG08421_L Symbolphoto

SG09621_L Symbolphoto

System and cable protection

- IEC/EN 60947-2

Strong switching capacity

SG07021_L Symbolphoto

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Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current: Phase conductor $I_n = I_u$ A	Neutral conductor $I_r = I_n x...$ x % of phase conductor %	Setting range: Overload releases $I_r = I_n x...$ A	Setting range: Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
70	20	100	16 - 20	350 A fixed	Screw terminals as accessories	
	25	100	20 - 25	350 A fixed		
	32	100	25 - 32	350 A fixed		
	40	100	32 - 40	8 - 10		
	50	100	40 - 50	6 - 10		
	63	100	50 - 63	6 - 10		
	80	100	63 - 80	6 - 10		
	100	100	80 - 100	6 - 10		
	125	100	100 - 125	6 - 10		
	160	100	125 - 160	1280 A fixed		
	125	100	100 - 125	6 - 10	NZMS2-4-A125	109988
	160	100	125 - 160	6 - 10	NZMS2-4-A160	109989
	160	60	125 - 160	6 - 10	NZMS2-4-A160/100	109990
	200	100	160 - 200	6 - 10	NZMS2-4-A200	109991
	200	60	160 - 200	6 - 10	NZMS2-4-A200/125	109992
	250	100	200 - 250	6 - 10	NZMS2-4-A250	109993
	250	60	200 - 250	6 - 10	NZMS2-4-A250/160	109994
	300	100	240 - 300	5 - 8.3	NZMS2-4-A300	110205
	300	60	240 - 300	5 - 8.3	NZMS2-4-A300/200	110206

Fixed mounting with box terminals Part no.	Article no.	Plug-in units Part no.	Article no.	Std. pack
		Order base separately		
				For further terminal types see accessories
NZMS1-4-A20	109948	-		1 Off
NZMS1-4-A25	109949			
NZMS1-4-A32	109950			
NZMS1-4-A40	109951			
NZMS1-4-A50	109952			
NZMS1-4-A63	109953			
NZMS1-4-A80	109954			
NZMS1-4-A100	109955			
NZMS1-4-A125	109956			
NZMS1-4-A160	109957			
Terminals as accessory		NZMS2-4-A125-SVE	113313	
		NZMS2-4-A160-SVE	113314	
		NZMS2-4-A160/100-SVE	113315	
		NZMS2-4-A200-SVE	113316	
		NZMS2-4-A200/125-SVE	113317	
		NZMS2-4-A250-SVE	113318	
		NZMS2-4-A250/160-SVE	113319	
		-		
		-		

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current		Setting range		Fixed mounting with screw terminals		Fixed mounting with box terminals		Plug-in/withdrawable units		
			Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.	Part no.	Article no.	Part no.	Article no.	Std. pack
	Phase conductor	Neutral conductor							Order base separately		
I_{cu}	$I_n = I_u$	$I_r = I_n$x... x % of phase conductor	$I_r = I_n$x...	$I_i = I_n$x...							
kA	A	%	A								

System and cable protection

- IEC/EN 60947-2

For further terminal types see accessories

High switching capacity

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100	20	100	15 - 20	350 A fixed	Screw terminals as accessories		NZMH1-4-A20	284416	-	1 Off
	25	100	20 - 25	350 A fixed			NZMH1-4-A25	284418		
	32	100	25 - 32	350 A fixed			NZMH1-4-A32	284420		
	40	100	32 - 40	8 - 10			NZMH1-4-A40	284422		
	50	100	40 - 50	6 - 10			NZMH1-4-A50	284424		
	63	100	50 - 63	6 - 10			NZMH1-4-A63	284426		
	80	100	63 - 80	6 - 10			NZMH1-4-A80	284428		
	100	100	80 - 100	6 - 10			NZMH1-4-A100	284430		
	125	100	100 - 125	6 - 10			NZMH1-4-A125	284432		
	160	100	100 - 125	1280 A fixed			NZMH1-4-A160	284434		

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150	20	100	15 - 20	350 A fixed	NZMH2-4-A20	281287	Terminals as accessory		NZMH2-4-A20-SVE	113396
	25	100	20 - 25	350 A fixed	NZMH2-4-A25	281289			NZMH2-4-A25-SVE	113398
	32	100	25 - 32	350 A fixed	NZMH2-4-A32	281291			NZMH2-4-A32-SVE	113400
	40	100	32 - 40	8 - 10	NZMH2-4-A40	265823			NZMH2-4-A40-SVE	113367
	50	100	40 - 50	6 - 10	NZMH2-4-A50	265825			NZMH2-4-A50-SVE	113369
	63	100	50 - 63	6 - 10	NZMH2-4-A63	265827			NZMH2-4-A63-SVE	113371
	80	100	63 - 80	6 - 10	NZMH2-4-A80	265829			NZMH2-4-A80-SVE	113373
	100	100	80 - 100	6 - 10	NZMH2-4-A100	265831			NZMH2-4-A100-SVE	113375
	125	100	100 - 125	6 - 10	NZMH2-4-A125	265833			NZMH2-4-A125-SVE	113377
	160	100	125 - 160	6 - 10	NZMH2-4-A160	265871			NZMH2-4-A160-SVE	113379
		60	125 - 160	6 - 10	NZMH2-4-A160/100	265872			NZMH2-4-A160/100-SVE	113380
	200	100	160 - 200	6 - 10	NZMH2-4-A200	265874			NZMH2-4-A200-SVE	113382
		60	160 - 200	6 - 10	NZMH2-4-A200/125	265875			NZMH2-4-A200/125-SVE	113383
	250	100	200 - 250	6 - 10	NZMH2-4-A250	265877			NZMH2-4-A250-SVE	113385
		60	200 - 250	6 - 10	NZMH2-4-A250/160	265878			NZMH2-4-A250/160-SVE	113386
	300	100	240 - 300	5 - 8.3	NZMH2-4-A300	107588			-	
		60	240 - 300	5 - 8.3	NZMH2-4-A300/200	107589			-	

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	320	100	250 - 320	6 - 10	NZMH3-4-A320	109700	Terminals as accessory		NZMH3-4-A320-SVE	168889
		60	250 - 320	6 - 10	NZMH3-4-A320/200	109701			NZMH3-4-A320/200-SVE	168890
		100	250 - 320	6 - 10	-				NZMH3-4-A320-AVE	113578
		60	250 - 320	6 - 10	-				NZMH3-4-A320/200-AVE	113579
	400	100	320 - 400	6 - 10	NZMH3-4-A400	109702			NZMH3-4-A400-SVE	168891
		60	320 - 400	6 - 10	NZMH3-4-A400/250	109703			NZMH3-4-A400/250-SVE	168892
		100	320 - 400	6 - 10	-				NZMH3-4-A400-AVE	113580
		60	320 - 400	6 - 10	-				NZMH3-4-A400/250-AVE	113581
	500	100	400 - 500	6 - 10	NZMH3-4-A500	109704			NZMH3-4-A500-SVE	168893
		60	400 - 500	6 - 10	NZMH3-4-A500/320	109705			NZMH3-4-A500/320-SVE	168894
		100	400 - 500	6 - 10	-				NZMH3-4-A500-AVE	113582
		60	400 - 500	6 - 10	-				NZMH3-4-A500/320-AVE	113583

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range Overload releases	Setting range Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_i = I_n$x...		

System and cable protection

• IEC/EN 60947-2

Normal switching capacity

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50	40	100	20 - 40	2 - 12	NZMN2-4-AX40*	193357
	63	100	25 - 63	2 - 12	NZMN2-4-AX63*	193358
	100	100	40 - 100	2 - 12	NZMN2-4-AX100	193359
	160	100	64 - 160	2 - 12	NZMN2-4-AX160	193360
	250	100	100 - 250	2 - 12	NZMN2-4-AX250	193361

*For availability information please contact your local Eaton sales team.

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	400	100	160 - 400	2 - 11	NZMN3-4-AX400	191486
		0 - 60 - 100	160 - 400	2 - 11	NZMN3-4-AX400/VAR	191487
	630	100	252 - 630	2 - 8	NZMN3-4-AX630	191488
		0 - 60 - 100	252 - 630	2 - 8	NZMN3-4-AX630/VAR	191489

WA_SG01422_L Symbolphoto

	800	100	320 - 800	2 - 12	NZMN4-4-AX800	191431
		0 - 60 - 100	320 - 800	2 - 12	NZMN4-4-AX800/VAR	191432
	1000	100	400 - 1000	2 - 12	NZMN4-4-AX1000	191433
		0 - 60 - 100	400 - 1000	2 - 12	NZMN4-4-AX1000/VAR	191434
	1250	100	500 - 1250	2 - 12	NZMN4-4-AX1250	191435
		0 - 60 - 100	500 - 1250	2 - 12	NZMN4-4-AX1250/VAR	191436
	1600	100	640 - 1600	2 - 12	NZMN4-4-AX1600	191437
		0 - 60 - 100	640 - 1600	2 - 12	NZMN4-4-AX1600/VAR	191438

Strong switching capacity

WA_SG02522_L Symbolphoto

70	40	100	20 - 40	2 - 12	NZMS2-4-AX40*	193371
	63	100	25 - 63	2 - 12	NZMS2-4-AX63*	193372
	100	100	40 - 100	2 - 12	NZMS2-4-AX100	193373
	160	100	64 - 160	2 - 12	NZMS2-4-AX160	193374
	250	100	100 - 250	2 - 12	NZMS2-4-AX250	193375

*For availability information please contact your local Eaton sales team.

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	400	100	160 - 400	2 - 11	NZMS3-4-AX400	191517
		0 - 60 - 100	160 - 400	2 - 11	NZMS3-4-AX400/VAR	191518
	630	100	252 - 630	2 - 8	NZMS3-4-AX630	191519
		0 - 60 - 100	252 - 630	2 - 8	NZMS3-4-AX630/VAR	191520

Fixed mounting with box terminals Part no.	Article no.		Withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

NZMN3-4-AX400-BT	191612		NZMN3-4-AX400-AVE	191608
Terminals as accessory			NZMN3-4-AX400/VAR-AVE	191614
NZMN3-4-AX630-BT	191613		NZMN3-4-AX630-AVE	191609
Terminals as accessory			NZMN3-4-AX630/VAR-AVE	191615

Terminals as accessory			NZMN4-4-AX800-AVE	500898
			NZMN4-4-AX800/VAR-AVE	500899
			NZMN4-4-AX1000-AVE	500900
			NZMN4-4-AX1000/VAR-AVE	500901
			NZMN4-4-AX1250-AVE	500902
			NZMN4-4-AX1250/VAR-AVE	500903
			NZMN4-4-AX1600-AVE	500904
			NZMN4-4-AX1600/VAR-AVE	500905

Terminals as accessory			-	1 Off

Terminals as accessory			NZMS3-4-AX400-AVE	191529
			NZMS3-4-AX400/VAR-AVE	191530
			NZMS3-4-AX630-AVE	191531
			NZMS3-4-AX630/VAR-AVE	191532

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_i = I_n$x...		

System and cable protection
• IEC/EN 60947-2

High switching capacity

WA_SG02522_ Symbolphoto

150	40	100	20 - 40	2 - 12	NZMH2-4-AX40*	193364
	63	100	25 - 63	2 - 12	NZMH2-4-AX63*	193365
	100	100	40 - 100	2 - 12	NZMH2-4-AX100	193366
	160	100	64 - 160	2 - 12	NZMH2-4-AX160	193367
	250	100	100 - 250	2 - 12	NZMH2-4-AX250	193368

*For availability information please contact your local Eaton sales team.

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	400	100	160 - 400	2 - 11	NZMH3-4-AX400	191387
		0 - 60 - 100	160 - 400	2 - 11	NZMH3-4-AX400/VAR	191388
	630	100	252 - 630	2 - 8	NZMH3-4-AX630	191389
		0 - 60 - 100	252 - 630	2 - 8	NZMH3-4-AX630/VAR	191390

WA_SG01422_L Symbolphoto

75*	800	100	320 - 800	2 - 12	NZMH4-4-AX800	191473
		0 - 60 - 100	320 - 800	2 - 12	NZMH4-4-AX800/VAR	191474
	1000	100	400 - 1000	2 - 12	NZMH4-4-AX1000	191475
		0 - 60 - 100	400 - 1000	2 - 12	NZMH4-4-AX1000/VAR	191476
	1250	100	500 - 1250	2 - 12	NZMH4-4-AX1250	191477
		0 - 60 - 100	500 - 1250	2 - 12	NZMH4-4-AX1250/VAR	191478
	1600	100	640 - 1600	2 - 12	NZMH4-4-AX1600	191353
		0 - 60 - 100	640 - 1600	2 - 12	NZMH4-4-AX1600/VAR	191354

*For further information please contact your local Eaton sales team.

Limiter switching capacity

wa_ren_01418_r Symbolphoto

100	800	100	320 - 800	2 - 12	NZML4-4-AX800	191331
		0 - 60 - 100	320 - 800	2 - 12	NZML4-4-AX800/VAR	191332
	1000	100	400 - 1000	2 - 12	NZML4-4-AX1000	191333
		0 - 60 - 100	400 - 1000	2 - 12	NZML4-4-AX1000/VAR	191334
	1250	100	500 - 1250	2 - 12	NZML4-4-AX1250	191335
		0 - 60 - 100	500 - 1250	2 - 12	NZML4-4-AX1250/VAR	191336
	1600	100	640 - 1600	2 - 12	NZML4-4-AX1600	191337
		0 - 60 - 100	640 - 1600	2 - 12	NZML4-4-AX1600/VAR	191338

Fixed mounting with box terminals Part no.	Article no.	Withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

Terminals as accessory		-		1 Off

Terminals as accessory		NZMH3-4-AX400-AVE	191375
		NZMH3-4-AX400/VAR-AVE	191379
		NZMH3-4-AX630-AVE	191376
		NZMH3-4-AX630/VAR-AVE	191380

-		NZMH4-4-AX800-AVE	500911
		NZMH4-4-AX800/VAR-AVE	500912
		NZMH4-4-AX1000-AVE	500913
		NZMH4-4-AX1000/VAR-AVE	500914
		NZMH4-4-AX1250-AVE	500915
		NZMH4-4-AX1250/VAR-AVE	500916
		NZMH4-4-AX1600-AVE	500887
		NZMH4-4-AX1600/VAR-AVE	500888

-		NZML4-4-AX800-AVE	500879	1 Off
		NZML4-4-AX800/VAR-AVE	500880	
		NZML4-4-AX1000-AVE	500881	
		NZML4-4-AX1000/VAR-AVE	500882	
		NZML4-4-AX1250-AVE	500883	
		NZML4-4-AX1250/VAR-AVE	500884	
		NZML4-4-AX1600-AVE	500885	
		NZML4-4-AX1600/VAR-AVE	500886	

Circuit breakers IEC, electronic releases, 4 pole
NZM...-4-VX

System and cable protection, selectivity and generator protection
• IEC/EN 60947-2

Normal switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases $I_r = I_n$x... A	Short-circuit releases delayed $I_{sd} = I_r$x . . .	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting with screw terminals Part no.	Article no.
50	100	100	40 - 100	2 - 10	2 - 18	NZMN2-4-VX100	191642
	160	100	64 - 160	2 - 10	2 - 18	NZMN2-4-VX160	191643
		0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMN2-4-VX160/VAR	191644
	250	100	100 - 250	2 - 10	2 - 12	NZMN2-4-VX250	191645
		0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMN2-4-VX250/VAR	191646
	400	100	160 - 400	2 - 10	2 - 12	NZMN3-4-VX400	191490
		100	160 - 400	2 - 10	2 - 12	-	
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMN3-4-VX400/VAR	191491
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-VX630	191492
		100	252 - 630	1.5 - 7	2 - 8	-	
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-VX630/VAR	191493
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	
	800	100	320 - 800	2 - 10	2 - 18	NZMN4-4-VX800	191439
		0 - 60 - 100	320 - 800	2 - 10	2 - 18	NZMN4-4-VX800/VAR	191440
	1000	100	400 - 1000	2 - 10	2 - 18	NZMN4-4-VX1000	191441
		0 - 60 - 100	400 - 1000	2 - 10	2 - 18	NZMN4-4-VX1000/VAR	191442
	1250	100	500 - 1250	2 - 10	2 - 15	NZMN4-4-VX1250	191443
		0 - 60 - 100	500 - 1250	2 - 10	2 - 15	NZMN4-4-VX1250/VAR	191444
	1600	100	640 - 1600	2 - 10	2 - 12	NZMN4-4-VX1600	191445
		0 - 60 - 100	640 - 1600	2 - 10	2 - 12	NZMN4-4-VX1600/VAR	191446

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WA_SG00522_L Symbolphoto

WA_SG01322_L Symbolphoto

Switch disconnectors IEC, electronic releases, 4 pole
NZM...-4-VX

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		
NZMN2-4-VX100-BT	191639		NZMN2-4-VX100-SVE	191634	1 Off
NZMN2-4-VX160-BT	191640		NZMN2-4-VX160-SVE	191635	
Terminals as accessory			NZMN2-4-VX160/VAR-SVE	191636	
NZMN2-4-VX250-BT	191641		NZMN2-4-VX250-SVE	191637	
Terminals as accessory			NZMN2-4-VX250/VAR-SVE	191638	
Terminals as accessory			NZMN3-4-VX400-SVE	191482	
			NZMN3-4-VX400-AVE	191610	
			NZMN3-4-VX400/VAR-SVE	191484	
			NZMN3-4-VX400/VAR-AVE	191616	
			NZMN3-4-VX630-SVE	191483	
			NZMN3-4-VX630-AVE	191611	
			NZMN3-4-VX630/VAR-SVE	191485	
			NZMN3-4-VX630/VAR-AVE	191617	
-			NZMN4-4-VX800-AVE	193333	
			NZMN4-4-VX800/VAR-AVE	500931	
			NZMN4-4-VX1000-AVE	193334	
			NZMN4-4-VX1000/VAR-AVE	500928	
			NZMN4-4-VX1250-AVE	193335	
			NZMN4-4-VX1250/VAR-AVE	500929	
			NZMN4-4-VX1600-AVE	193336	
			NZMN4-4-VX1600/VAR-AVE	500930	

For further terminal types see accessories

System and cable protection, selectivity and generator protection

• IEC/EN 60947-2

Strong switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases $I_r = I_n$x... A	Short-circuit releases delayed $I_{sd} = I_r$x . . .	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting with screw terminals Part no.	Article no.
70	100	100	40 - 100	2 - 10	2 - 18	NZMS2-4-VX100	191659
	160	100	64 - 160	2 - 10	2 - 18	NZMS2-4-VX160	191660
		0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMS2-4-VX160/VAR	191661
	250	100	100 - 250	2 - 10	2 - 12	NZMS2-4-VX250	191662
		0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMS2-4-VX250/VAR	191663
	400	100	160 - 400	2 - 10	2 - 12	NZMS3-4-VX400	191521
		100	160 - 400	2 - 10	2 - 12	-	
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMS3-4-VX400/VAR	191522
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-VX630	191523
		100	252 - 630	1.5 - 7	2 - 8	-	
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-VX630/VAR	191524
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	

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WA_SG00522_L Symbolphoto

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		
Terminals as accessory		NZMS2-4-VX100-SVE	191664	1 Off
		NZMS2-4-VX160-SVE	191665	
		NZMS2-4-VX160/VAR-SVE	191666	
		NZMS2-4-VX250-SVE	191667	
		NZMS2-4-VX250/VAR-SVE	191668	
Terminals as accessory		NZMS3-4-VX400-SVE	191541	
		NZMS3-4-VX400-AVE	191533	
		NZMS3-4-VX400/VAR-SVE	191542	
		NZMS3-4-VX400/VAR-AVE	191534	
		NZMS3-4-VX630-SVE	191543	
		NZMS3-4-VX630-AVE	191535	
		NZMS3-4-VX630/VAR-SVE	191544	
		NZMS3-4-VX630/VAR-AVE	191536	

For further terminal types see accessories

System and cable protection, selectivity and generator protection

• IEC/EN 60947-2

High switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases $I_r = I_n$x... A	Short-circuit releases delayed $I_{sd} = I_r$x . . .	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting with screw terminals Part no.	Article no.
150	100	100	40 - 100	2 - 10	2 - 18	NZMH2-4-VX100	191689
	160	100	64 - 160	2 - 10	2 - 18	NZMH2-4-VX160	191690
		0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMH2-4-VX160/VAR	191691
	250	100	100 - 250	2 - 10	2 - 12	NZMH2-4-VX250	191692
		0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMH2-4-VX250/VAR	191693
	400	100	160 - 400	2 - 10	2 - 12	NZMH3-4-VX400	191391
		100	160 - 400	2 - 10	2 - 12	-	
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMH3-4-VX400/VAR	191392
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-VX630	191393
		100	252 - 630	1.5 - 7	2 - 8	-	
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-VX630/VAR	191394
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	
75*	800	100	320 - 800	2 - 10	2 - 18	NZMH4-4-VX800	191355
		0 - 60 - 100	320 - 800	2 - 10	2 - 18	NZMH4-4-VX800/VAR	191356
	1000	100	400 - 1000	2 - 10	2 - 18	NZMH4-4-VX1000	191357
		0 - 60 - 100	400 - 1000	2 - 10	2 - 18	NZMH4-4-VX1000/VAR	191358
	1250	100	500 - 1250	2 - 10	2 - 15	NZMH4-4-VX1250	191359
		0 - 60 - 100	500 - 1250	2 - 10	2 - 15	NZMH4-4-VX1250/VAR	191360
	1600	100	640 - 1600	2 - 10	2 - 12	NZMH4-4-VX1600	191361
		0 - 60 - 100	640 - 1600	2 - 10	2 - 12	NZMH4-4-VX1600/VAR	191362

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WA_SG00522_L Symbolphoto

WA_SG01322_L Symbolphoto

* For further information please contact your local Eaton sales team.

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		
Terminals as accessory		NZMH2-4-VX100-SVE	191684	1 Off
		NZMH2-4-VX160-SVE	191685	
		NZMH2-4-VX160/VAR-SVE	191686	
		NZMH2-4-VX250-SVE	191687	
		NZMH2-4-VX250/VAR-SVE	191688	
Terminals as accessory		NZMH3-4-VX400-SVE	191395	
		NZMH3-4-VX400-AVE	191377	
		NZMH3-4-VX400/VAR-SVE	191397	
		NZMH3-4-VX400/VAR-AVE	191381	
		NZMH3-4-VX630-SVE	191396	
		NZMH3-4-VX630-AVE	191378	
		NZMH3-4-VX630/VAR-SVE	191398	
		NZMH3-4-VX630/VAR-AVE	191382	
-		NZMH4-4-VX800-AVE	193337	
		NZMH4-4-VX800/VAR-AVE	500927	
		NZMH4-4-VX1000-AVE	193338	
		NZMH4-4-VX1000/VAR-AVE	500924	
		NZMH4-4-VX1250-AVE	193339	
		NZMH4-4-VX1250/VAR-AVE	500925	
		NZMH4-4-VX1600-AVE	193340	
		NZMH4-4-VX1600/VAR-AVE	500926	

System and cable protection, selectivity, generator and earth fault protection

• IEC/EN 60947-2

Normal switching capacity

Switching capacity 400/415V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases $I_r = I_n x...$ A	Short-circuit releases delayed $I_{sd} = I_r x \ldots$	Short-circuit releases Non-delayed $I_i = I_n x...$	Earth-fault release $I_G = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
50	40	100	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-4-VX40-T*	193299
	63	100	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-4-VX40-T*	193300
	100	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-4-VX100-T	193301
	160	100	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-4-VX160-T	193302
	250	100	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-4-VX250-T	193303

*For availability information please contact your local Eaton sales team.

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	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-4-VX400-T	191480
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-4-VX630-T	191481

SG10621_L Symbolphoto

	800	100	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-4-VX800-T	193320
	1000	100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-4-VX1000-T	193321
	1250	100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-4-VX1250-T	193322
	1600	100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-4-VX1600-T	193323

Strong switching capacity

SG09821_L Symbolphoto

70	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-VX400-T	191525
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-VX400/VAR-T	191526
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-VX630-T	191527
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-VX630/VAR-T	191528

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

Terminals as accessory		-		1 Off

Terminals as accessory		NZMN3-4-VX400-T-AVE	191618	1 Off
		NZMN3-4-VX630-T-AVE	191479	

-		NZMN4-4-VX800-T-AVE	500961	1 Off
		NZMN4-4-VX1000-T-AVE	500955	
		NZMN4-4-VX1250-T-AVE	500957	
		NZMN4-4-VX1600-T-AVE	500959	

Terminals as accessory		NZMS3-4-VX400-T-AVE	191537	1 Off
		NZMS3-4-VX400/VAR-T-AVE	191538	
		NZMS3-4-VX630-T-AVE	191539	
		NZMS3-4-VX630/VAR-T-AVE	191540	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- IEC/EN 60947-2

High switching capacity

WA_SG03122_L Symbolphoto

150	40	100	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-4-VX40-T*	193305
	63	100	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-4-VX63-T*	193306
	100	100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-4-VX100-T	193307
	160	100	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-4-VX160-T	193308
	250	100	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-4-VX250-T	193309

*For availability information please contact your local Eaton sales team.

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	400	100	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-4-VX400-T	191385
	630	100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-4-VX630-T	191386

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75*	800	100	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-4-VX800-T	193324
	1000	100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-4-VX1000-T	193325
	1250	100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-4-VX1250-T	193326
	1600	100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-4-VX1600-T	193327

*For further information please contact your Eaton sales person.

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			-		1 Off

Terminals as accessory			NZMH3-4-VX400-T-AVE	191383	1 Off
			NZMH3-4-VX630-T-AVE	191384	

-			NZMH4-4-VX800-T-AVE	500949	1 Off
			NZMH4-4-VX1000-T-AVE	500946	
			NZMH4-4-VX1250-T-AVE	500947	
			NZMH4-4-VX1600-T-AVE	500948	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x . . .	$I_i = I_n$x...		

System and cable protection, selectivity and generator protection

• IEC/EN 60947-2

Normal switching capacity

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50	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	NZMN2-4-PX40/VAR*	192204
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	NZMN2-4-PX63/VAR*	192205
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	NZMN2-4-PX100/VAR	192206
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMN2-4-PX160/VAR	192207
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMN2-4-PX250/VAR	192208

*For availability information please contact your local Eaton sales team.

SG09721_L Symbolphoto

	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	NZMN3-4-PX250/VAR	192277
		0 - 60 - 100	100 - 250	2 - 10	2 - 18	-	
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMN3-4-PX400/VAR	192278
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMN3-4-PX630/VAR	192279
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	

SG10721_L Symbolphoto

	630	0 - 60 - 100	252 - 630	2 - 10	2 - 12	NZMN4-4-PX630/VAR	189641
	800	0 - 60 - 100	320 - 800	2 - 10	2 - 18	NZMN4-4-PX800/VAR	189642
	1000	0 - 60 - 100	500 - 1000	2 - 10	2 - 12	NZMN4-4-PX1000/VAR	189643
	1250	0 - 60 - 100	630 - 1250	2 - 10	2 - 12	NZMN4-4-PX1250/VAR	189644
	1600	0 - 60 - 100	800 - 1600	2 - 10	2 - 12	NZMN4-4-PX1600/VAR	189645

Strong switching capacity

SG08321_L Symbolphoto

70	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	NZMS2-4-PX40/VAR*	192211
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	NZMS2-4-PX63/VAR*	192212
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	NZMS2-4-PX100/VAR	192213
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMS2-4-PX160/VAR	192214
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMS2-4-PX250/VAR	192215

*For availability information please contact your local Eaton sales team.

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	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	NZMS3-4-PX250/VAR	192280
		0 - 60 - 100	100 - 250	2 - 10	2 - 18	-	
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMS3-4-PX400/VAR	192281
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMS3-4-PX630/VAR	192282
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory		NZMN2-4-PX40/VAR-SVE*	192062	1 Off
		NZMN2-4-PX63/VAR-SVE*	192063	
		NZMN2-4-PX100/VAR-SVE	192064	
		NZMN2-4-PX160/VAR-SVE	192065	
		NZMN2-4-PX250/VAR-SVE	192066	

*For availability information please contact your local Eaton sales team.

Terminals as accessory		NZMN3-4-PX250/VAR-SVE	192295
		NZMN3-4-PX250/VAR-AVE	192304
		NZMN3-4-PX400/VAR-SVE	192296
		NZMN3-4-PX400/VAR-AVE	192305
		NZMN3-4-PX630/VAR-SVE	192297
		NZMN3-4-PX630/VAR-AVE	192306

-		NZMN4-4-PX630/VAR-AVE	189661
		NZMN4-4-PX800/VAR-AVE	189662
		NZMN4-4-PX1000/VAR-AVE	189663
		NZMN4-4-PX1250/VAR-AVE	189664
		NZMN4-4-PX1600/VAR-AVE	189665

Terminals as accessory		NZMS2-4-PX40/VAR-SVE*	192069	1 Off
		NZMS2-4-PX63/VAR-SVE*	192070	
		NZMS2-4-PX100/VAR-SVE	192071	
		NZMS2-4-PX160/VAR-SVE	192072	
		NZMS2-4-PX250/VAR-SVE	192073	

*For availability information please contact your local Eaton sales team.

Terminals as accessory		NZMS3-4-PX250/VAR-SVE	192298
		NZMS3-4-PX250/VAR-AVE	192307
		NZMS3-4-PX400/VAR-SVE	192299
		NZMS3-4-PX400/VAR-AVE	192308
		NZMS3-4-PX630/VAR-SVE	192300
		NZMS3-4-PX630/VAR-AVE	192309

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Setting range: Short-circuit releases delayed	Setting range: Short-circuit releases Non-delayed	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x . . .	$I_i = I_n$x...		

System and cable protection, selectivity and generator protection

• IEC/EN 60947-2

High switching capacity

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150	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	NZMH2-4-PX40/VAR*	192218
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	NZMH2-4-PX63/VAR*	192219
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	NZMH2-4-PX100/VAR	192220
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	NZMH2-4-PX160/VAR	192221
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	NZMH2-4-PX250/VAR	192222

*For availability information please contact your local Eaton sales team.

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	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	NZMH3-4-PX250/VAR	192283
		0 - 60 - 100	100 - 250	2 - 10	2 - 18	-	
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	NZMH3-4-PX400/VAR	192284
		0 - 60 - 100	160 - 400	2 - 10	2 - 12	-	
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	NZMH3-4-PX630/VAR	192285
		0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	-	

SG10721_L Symbolphoto

75*	630	0 - 60 - 100	252 - 630	2 - 10	2 - 18	NZMH4-4-PX630/VAR	189646
	800	0 - 60 - 100	320 - 800	2 - 10	2 - 18	NZMH4-4-PX800/VAR	189647
	1000	0 - 60 - 100	500 - 1000	2 - 10	2 - 18	NZMH4-4-PX1000/VAR	189648
	1250	0 - 60 - 100	630 - 1250	2 - 10	2 - 15	NZMH4-4-PX1250/VAR	189649
	1600	0 - 60 - 100	800 - 1600	2 - 10	2 - 12	NZMH4-4-PX1600/VAR	189650

*For further information please contact your local Eaton sales team.

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory		NZMH2-4-PX40/VAR-SVE*	192076	1 Off	
		NZMH2-4-PX63/VAR-SVE*	192077		
		NZMH2-4-PX100/VAR-SVE	192078		
		NZMH2-4-PX160/VAR-SVE	192079		
		NZMH2-4-PX250/VAR-SVE	192080		

*For availability information please contact your local Eaton sales team.

Terminals as accessory		NZMH3-4-PX250/VAR-SVE	192301	
		NZMH3-4-PX250/VAR-AVE	192310	
		NZMH3-4-PX400/VAR-SVE	192302	
		NZMH3-4-PX400/VAR-AVE	192311	
		NZMH3-4-PX630/VAR-SVE	192303	
		NZMH3-4-PX630/VAR-AVE	192312	

-		NZMH4-4-PX630/VAR-AVE	189666	
		NZMH4-4-PX800/VAR-AVE	189667	
		NZMH4-4-PX1000/VAR-AVE	189668	
		NZMH4-4-PX1250/VAR-AVE	189669	
		NZMH4-4-PX1600/VAR-AVE	189670	

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x …	$I_i = I_n$x...	$I_G = I_n$x...		

System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode (Arcflash Reduction Maintenance System™) and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

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50	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMN2-4-PX40/VAR-TZ*	192225
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMN2-4-PX63/VAR-TZ*	192226
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMN2-4-PX100/VAR-TZ	192227
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMN2-4-PX160/VAR-TZ	192228
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMN2-4-PX250/VAR-TZ	192229

*For availability information please contact your local Eaton sales team.

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	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMN3-4-PX250/VAR-TAZ	192286
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMN3-4-PX400/VAR-TAZ	192287
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMN3-4-PX630/VAR-TAZ	192288

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	630	0 - 60 - 100	252 - 630	2 - 10	2 - 18	126 - 630	NZMN4-4-PX630/VAR-TAZ	189651
	800	0 - 60 - 100	320 - 800	2 - 10	2 - 18	160 - 800	NZMN4-4-PX800/VAR-TAZ	189652
	1000	0 - 60 - 100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMN4-4-PX1000/VAR-TAZ	189653
	1250	0 - 60 - 100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMN4-4-PX1250/VAR-TAZ	189654
	1600	0 - 60 - 100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMN4-4-PX1600/VAR-TAZ	189655

Strong switching capacity

SG08321_L Symbolphoto

70	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMS2-4-PX40/VAR-TZ*	192232
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMS2-4-PX63/VAR-TZ*	192233
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMS2-4-PX100/VAR-TZ	192234
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMS2-4-PX160/VAR-TZ	192235
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMS2-4-PX250/VAR-TZ	192236

*For availability information please contact your local Eaton sales team.

SG09721_L Symbolphoto

	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMS3-4-PX250/VAR-TAZ	192289
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMS3-4-PX400/VAR-TAZ	192290
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMS3-4-PX630/VAR-TAZ	192291

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
			Order base separately		

For further terminal types see accessories

Terminals as accessory			NZMN2-4-PX40/VAR-TZ-SVE*	192083	1 Off
			NZMN2-4-PX63/VAR-TZ-SVE*	192084	
			NZMN2-4-PX100/VAR-TZ-SVE	192085	
			NZMN2-4-PX160/VAR-TZ-SVE	192086	
			NZMN2-4-PX250/VAR-TZ-SVE	192087	

*For availability information please contact your local Eaton sales team.

Terminals as accessory			NZMN3-4-PX250/VAR-TAZ-AVE	192313
			NZMN3-4-PX400/VAR-TAZ-AVE	192314
			NZMN3-4-PX630/VAR-TAZ-AVE	192315

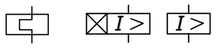
-			NZMN4-4-PX630/VAR-TAZ-AVE	189671
			NZMN4-4-PX800/VAR-TAZ-AVE	189672
			NZMN4-4-PX1000/VAR-TAZ-AVE	189673
			NZMN4-4-PX1250/VAR-TAZ-AVE	189674
			NZMN4-4-PX1600/VAR-TAZ-AVE	189675

Terminals as accessory			NZMS2-4-PX40/VAR-TZ-SVE*	192090	1 Off
			NZMS2-4-PX63/VAR-TZ-SVE*	192091	
			NZMS2-4-PX100/VAR-TZ-SVE	192092	
			NZMS2-4-PX160/VAR-TZ-SVE	192093	
			NZMS2-4-PX250/VAR-TZ-SVE	192094	

*For availability information please contact your local Eaton sales team.

Terminals as accessory			NZMS3-4-PX250/VAR-TAZ-AVE	192316
			NZMS3-4-PX400/VAR-TAZ-AVE	192317
			NZMS3-4-PX630/VAR-TAZ-AVE	192318

Switching capacity 400/415V 50/60 Hz	Rated current = Rated uninterrupted current	Neutral conductor I_x x % of phase conductor %	Setting range: Overload releases	Short-circuit releases delayed	Short-circuit releases Non-delayed	Earth-fault release	Fixed mounting with screw terminals Part no.	Article no.
I_{cu} kA	$I_n = I_u$ A		$I_r = I_n$x... A	$I_{sd} = I_r$x ...	$I_i = I_n$x...	$I_G = I_n$x...		



System and cable protection, selectivity, generator and earth fault protection

- Energy metering class I up to IEC61557-12
- IEC/EN 60947-2
- NZM3, NZM4: with maintenance mode (Arcflash Reduction Maintenance System™) and zone-selective interlocking ZSI
- NZM2: with zone-selective interlocking ZSI

Normal switching capacity

SG08321_L Symbolphoto

150	40	0 - 60 - 100	20 - 40	2 - 10	2 - 18	20 - 40	NZMH2-4-PX40/VAR-TZ*	192055
	63	0 - 60 - 100	25 - 63	2 - 10	2 - 18	20 - 63	NZMH2-4-PX63/VAR-TZ*	192056
	100	0 - 60 - 100	40 - 100	2 - 10	2 - 18	20 - 100	NZMH2-4-PX100/VAR-TZ	192057
	160	0 - 60 - 100	64 - 160	2 - 10	2 - 18	32 - 160	NZMH2-4-PX160/VAR-TZ	192058
	250	0 - 60 - 100	100 - 250	2 - 10	2 - 12	50 - 250	NZMH2-4-PX250/VAR-TZ	192059

*For availability information please contact your local Eaton sales team.

SG09721_L Symbolphoto

	250	0 - 60 - 100	100 - 250	2 - 10	2 - 18	50 - 250	NZMH3-4-PX250/VAR-TAZ	192292
	400	0 - 60 - 100	160 - 400	2 - 10	2 - 12	80 - 400	NZMH3-4-PX400/VAR-TAZ	192293
	630	0 - 60 - 100	252 - 630	1.5 - 7	2 - 8	126 - 630	NZMH3-4-PX630/VAR-TAZ	192294

SG10721_L Symbolphoto

75*	630	0 - 60 - 100	252 - 630	2 - 10	2 - 18	126 - 630	NZMH4-4-PX630/VAR-TAZ	189656
	800	0 - 60 - 100	320 - 800	2 - 10	2 - 18	160 - 800	NZMH4-4-PX800/VAR-TAZ	189657
	1000	0 - 60 - 100	400 - 1000	2 - 10	2 - 18	200 - 1000	NZMH4-4-PX1000/VAR-TAZ	189658
	1250	0 - 60 - 100	500 - 1250	2 - 10	2 - 15	250 - 1250	NZMH4-4-PX1250/VAR-TAZ	189659
	1600	0 - 60 - 100	640 - 1600	2 - 10	2 - 12	320 - 1600	NZMH4-4-PX1600/VAR-TAZ	189660

*For further information please contact your local Eaton sales team.

Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
		Order base separately		

For further terminal types see accessories

Terminals as accessory		NZMH2-4-PX40/VAR-TZ-SVE*	192097	1 Off
		NZMH2-4-PX63/VAR-TZ-SVE*	192098	
		NZMH2-4-PX100/VAR-TZ-SVE	192099	
		NZMH2-4-PX160/VAR-TZ-SVE	192100	
		NZMH2-4-PX250/VAR-TZ-SVE	192101	

*For availability information please contact your local Eaton sales team.

Terminals as accessory		NZMH3-4-PX250/VAR-TAZ-AVE	192319
		NZMH3-4-PX400/VAR-TAZ-AVE	192320
		NZMH3-4-PX630/VAR-TAZ-AVE	192321

		NZMH4-4-PX630/VAR-TAZ-AVE	189676
		NZMH4-4-PX800/VAR-TAZ-AVE	189677
		NZMH4-4-PX1000/VAR-TAZ-AVE	189678
		NZMH4-4-PX1250/VAR-TAZ-AVE	189679
		NZMH4-4-PX1600/VAR-TAZ-AVE	189680

Compact circuit breakers IEC, thermomagnetic releases, 1 pole
NZM...AF

Switching capacity 230V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting with box terminals: Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	$I_r = I_n x...$ A	I_i			

System and cable protection
• IEC/EN 60947-2

Economy switching capacity

SG06621_L Symbolphoto

18	16	16 A fixed	320 A fixed	NZME1-1-AF16	152561	1 Off
	20	20 A fixed	320 A fixed	NZME1-1-AF20	152540	
	25	25 A fixed	320 A fixed	NZME1-1-AF25	152541	
	32	32 A fixed	340 A fixed	NZME1-1-AF32	152542	
	40	40 A fixed	340 A fixed	NZME1-1-AF40	152543	
	50	50 A fixed	600 A fixed	NZME1-1-AF50	152544	
	63	63 A fixed	600 A fixed	NZME1-1-AF63	152545	
	80	80 A fixed	1000 A fixed	NZME1-1-AF80	152546	
	100	100 A fixed	1000 A fixed	NZME1-1-AF100	152547	
	125	125 A fixed	1000 A fixed	NZME1-1-AF125	152548	

Basic switching capacity

SG06621_L Symbolphoto

25	16	16 A fixed	320 A fixed	NZMB1-1-AF16	152560	1 Off
	20	20 A fixed	320 A fixed	NZMB1-1-AF20	152531	
	25	25 A fixed	320 A fixed	NZMB1-1-AF25	152532	
	32	32 A fixed	340 A fixed	NZMB1-1-AF32	152533	
	40	40 A fixed	340 A fixed	NZMB1-1-AF40	152534	
	50	50 A fixed	600 A fixed	NZMB1-1-AF50	152535	
	63	63 A fixed	600 A fixed	NZMB1-1-AF63	152536	
	80	80 A fixed	1000 A fixed	NZMB1-1-AF80	152537	
	100	100 A fixed	1000 A fixed	NZMB1-1-AF100	152538	
	125	125 A fixed	1000 A fixed	NZMB1-1-AF125	152539	

Switch disconnectors IEC, 3 pole
PN...

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals: Part no.	Article no.	Fixed mounting with box terminals: Part no.	Article no.	Std. pack

Switch disconnectors
• IEC/EN 60947-2

For further terminal types see accessories

2 switch positions I, 0

WA_SG168321_L Symbolphoto

63	125	-		PN1-63	259140	1 Off
100	125			PN1-100	259141	
125	125			PN1-125	259142	
160	160			PN1-160	281235	

WA_SG168721_L Symbolphoto

160	250	PN2-160	266005	PN2-160-BT	110308
200	250	PN2-200	266006	PN2-200-BT	110309
250	250	PN2-250	266007	PN2-250-BT	110310

WA_SG170521_L Symbolphoto

400	630	PN3-400	266017	PN3-400-BT	110314
630	630	PN3-630	266018	PN3-630-BT	110315

Switch disconnectors

• IEC/EN 60947-3

3 switch positions I, +, 0

Can be remotely operated with shunt release XU/XA, remote operator XR
Can be equipped with trip-indicating auxiliary contact M22-K...

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.
SG06721_L Symbolphoto			
63	125	Screw terminals as accessories	
100	125		
125	125		
160	160		
SG07821_L Symbolphoto			
160	250	N2-160	266008
200	250	N2-200	266009
250	250	N2-250	266010
SG09321_L Symbolphoto			
400	630	N3-400	266019
		-	
630	630	N3-630	266020
		-	
SG10221_L Symbolphoto			
800	1600	N4-800	266025
1000	1600	N4-1000	266026
1250	1600	N4-1250	266027
1600	1600	N4-1600	266028

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.		Plug-in/withdrawable units Part no.	Article no.	Std. pack
N1-63	259143		N1-63-SVE	113729	1 Off
N1-100	259144		N1-100-SVE	113730	
N1-125	259145		N1-125-SVE	113731	
N1-160	281236		-		
N2-160-BT	110311		N2-160-SVE	113733	
N2-200-BT	110312		N2-200-SVE	113734	
N2-250-BT	110313		N2-250-SVE	113735	
N3-400-BT	110316		N3-400-SVE	168544	
-			N3-400-AVE	110768	
N3-630-BT	110317		N3-630-SVE	168545	
-			N3-630-AVE	110769	
-			Withdrawable units as accessories		

Switch disconnectors IEC, 4 pole
PN...-4

Switch disconnectors

- IEC/EN 60947-3

For further terminal types see accessories

2 switch positions I, 0

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Std. pack
WA_SG168421_L Symbolphoto						
63	125	Screw terminals as accessories		PN1-4-63	265999	1 Off
100	125			PN1-4-100	266000	
125	125			PN1-4-125	266001	
160	160			PN1-4-160	281253	
WA_SG168821_L Symbolphoto						
160	250	PN2-4-160	266011	PN2-4-160-BT	118880	
200	250	PN2-4-200	266012	PN2-4-200-BT	118881	
250	250	PN2-4-250	266013	PN2-4-250-BT	118882	
WA_SG170621_L Symbolphoto						
400	630	PN3-4-400	266021	PN3-4-400-BT	111653	
630	630	PN3-4-630	266022	PN3-4-630-BT	111654	

Switch disconnectors

• IEC/EN 60947-2

3 switch positions I, +, 0
Can be remotely operated with shunt release XU/XA, remote operator XR
Can be equipped with trip-indicating auxiliary contact M22-K...

Rated current = Rated uninterrupted current $I_n = I_u$ A	Short-circuit protection max. fuse gL-characteristic A gL	Fixed mounting with screw terminals Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Plug-in/withdrawable units Part no.	Article no.	Std. pack
								For further terminal types see accessories
SG07121_L Symbolphoto								
63	125	Screw terminals as accessories		N1-4-63	266002	-		1 Off
100	125			N1-4-100	266003	-		
125	125			N1-4-125	266004	-		
160	160			N1-4-160	281254			
SG08221_L Symbolphoto								
160	250	N2-4-160	266014	N2-4-160-BT	118883	N2-4-160-SVE	113736	
200	250	N2-4-200	266015	N2-4-200-BT	118884	N2-4-200-SVE	113737	
250	250	N2-4-250	266016	N2-4-250-BT	118885	N2-4-250-SVE	113738	
SG09921_L Symbolphoto								
400	630	N3-4-400	266023	N3-4-400-BT	111651	N3-4-400-SVE	168470	
	630	-		-		N3-4-400-AVE	110872	
630	630	N3-4-630	266024	N3-4-630-BT	111652	N3-4-630-SVE	168471	
	630	-		-		N3-4-630-AVE	110873	
SG10521_L Symbolphoto								
800	1600	N4-4-800	266029	-		Withdrawable units as accessories		
1000	1600	N4-4-1000	266030					
1250	1600	N4-4-1250	266031					
1600	1600	N4-4-1600	266032					

Compact circuit breakers, switch disconnectors 1.10
Switch disconnectors IEC, 4 pole
PN...-4, N...-4

Switching capacity				Rated current =	Setting range		Fixed mounting	
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

Basic switching capacity

WA_SG170421_L Symbolphoto

25	-	-	-	20	15 - 20	350 A fixed	Screw terminals as accessories	
				25	20 - 25	350 A fixed		
				32	25 - 32	350 A fixed		
				40	32 - 40	8 - 10		
				50	40 - 50	6 - 10		
				63	50 - 63	6 - 10		
				80	63 - 80	6 - 10		
				100	80 - 100	6 - 10		
				125	100 - 125	6 - 10		

1230PIC-802 Symbolphoto

25	25	18	-	20	15 - 20	350 A fixed	NZMB2-A20-NA	269206
				25	20 - 25	350 A fixed	NZMB2-A25-NA	269207
				32	25 - 32	350 A fixed	NZMB2-A32-NA	269208
				40	32 - 40	8 - 10	NZMB2-A40-NA	269209
				50	40 - 50	6 - 10	NZMB2-A50-NA	269210
				63	50 - 63	6 - 10	NZMB2-A63-NA	269211
				80	63 - 80	6 - 10	NZMB2-A80-NA	269212
				100	80 - 100	6 - 10	NZMB2-A100-NA	269213
				125	100 - 125	6 - 10	NZMB2-A125-NA	269214
				160	125 - 160	6 - 10	NZMB2-A160-NA	269215
				200	160 - 200	6 - 10	NZMB2-A200-NA	269216
				250	200 - 250	6 - 10	NZMB2-A250-NA	271105

Normal switching capacity

WA_SG170421_L Symbolphoto

35	-	-	-	20	15 - 20	350 A fixed	Screw terminals as accessories	
				25	20 - 25	350 A fixed		
				32	25 - 32	350 A fixed		
				40	32 - 40	8 - 10		
				50	40 - 50	6 - 10		
				63	50 - 63	6 - 10		
				80	63 - 80	6 - 10		
				100	80 - 100	6 - 10		
				125	100 - 125	6 - 10		

WA_SG02222_L Symbolphoto

35	35	25	-	20	15 - 20	350 A fixed	NZMN2-A20-NA	269217
				25	20 - 25	350 A fixed	NZMN2-A25-NA	269218
				32	25 - 32	350 A fixed	NZMN2-A32-NA	269219
				40	32 - 40	8 - 10	NZMN2-A40-NA	269220
				50	40 - 50	6 - 10	NZMN2-A50-NA	269221
				63	50 - 63	6 - 10	NZMN2-A63-NA	269222
				80	63 - 80	6 - 10	NZMN2-A80-NA	269223
				100	80 - 100	6 - 10	NZMN2-A100-NA	269224
				125	100 - 125	6 - 10	NZMN2-A125-NA	269225
				160	125 - 160	6 - 10	NZMN2-A160-NA	269226
				200	160 - 200	6 - 10	NZMN2-A200-NA	269227
				250	200 - 250	6 - 10	NZMN2-A250-NA	271106

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB1-A20-NA	281559	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB1-A25-NA	281560		UL File No.	E31593
NZMB1-A32-NA	281561		UL Category Control No.	DIVQ
NZMB1-A40-NA	272253		CSA File No.	022086
NZMB1-A50-NA	272254		CSA Class No.	1432-01
NZMB1-A63-NA	272255		North America Certification	UL listed, CSA certified
NZMB1-A80-NA	272256		Specially designed for NA	Yes
NZMB1-A100-NA	272258		Suitable for	Feeder circuits, branch circuits
NZMB1-A125-NA	281562		Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	480Y/277 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-A20-BT-NA	107773	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-A25-BT-NA	107774		UL File No	E31593
NZMB2-A32-BT-NA	107775		UL Category Control No.	DIVQ
NZMB2-A40-BT-NA	107776		CSA File No.	022086
NZMB2-A50-BT-NA	107777		CSA Class No.	1432-01
NZMB2-A63-BT-NA	107778		North America Certification	UL listed, CSA certified
NZMB2-A80-BT-NA	107779		Specially designed for NA	Yes
NZMB2-A100-BT-NA	107780		Suitable for	Feeder circuits, branch circuits
NZMB2-A125-BT-NA	107781		Current Limiting Circuit breaker	Yes
NZMB2-A160-BT-NA	107782		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-A200-BT-NA	107783		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-A250-BT-NA	107784			
NZMN1-A20-NA	281570	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN1-A25-NA	281571		UL File No.	E31593
NZMN1-A32-NA	281572		UL Category Control No.	DIVQ
NZMN1-A40-NA	274237		CSA File No.	022086
NZMN1-A50-NA	274239		CSA Class No.	1432-01
NZMN1-A63-NA	274240		North America Certification	UL listed, CSA certified
NZMN1-A80-NA	274241		Specially designed for NA	Yes
NZMN1-A100-NA	274242		Suitable for	Feeder circuits, branch circuits
NZMN1-A125-NA	281573		Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	480Y/277 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-A20-BT-NA	107785	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-A25-BT-NA	107786		UL File No.	E31593
NZMN2-A32-BT-NA	107787		UL Category Control No.	DIVQ
NZMN2-A40-BT-NA	107788		CSA File No.	022086
NZMN2-A50-BT-NA	107789		CSA Class No.	1432-01
NZMN2-A63-BT-NA	107790		North America Certification	UL listed, CSA certified
NZMN2-A80-BT-NA	107791		Specially designed for NA	Yes
NZMN2-A100-BT-NA	107792		Suitable for	Feeder circuits, branch circuits
NZMN2-A125-BT-NA	107793		Current Limiting Circuit breaker	Yes
NZMN2-A160-BT-NA	107794		Max. Voltage Rating	600Y/347 V, 480 V
NZMN2-A200-BT-NA	107795		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-A250-BT-NA	107796			

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

High switching capacity

WA_SG02222_L Symbolphoto

150	150	65	-	20	15 - 20	350 A fixed	NZMH2-A20-NA	269228
				25	20 - 25	350 A fixed	NZMH2-A25-NA	269229
				32	25 - 32	350 A fixed	NZMH2-A32-NA	269230
				40	32 - 40	8 - 10	NZMH2-A40-NA	269231
				50	40 - 50	6 - 10	NZMH2-A50-NA	269232
				63	50 - 63	6 - 10	NZMH2-A63-NA	269233
				80	63 - 80	6 - 10	NZMH2-A80-NA	269234
				100	80 - 100	6 - 10	NZMH2-A100-NA	269235
				125	100 - 125	6 - 10	NZMH2-A125-NA	269236
100	100	50	-	160	125 - 160	6 - 10	NZMH2-A160-NA	269237
				200	160 - 200	6 - 10	NZMH2-A200-NA	269238
				250	200 - 250	6 - 10	NZMH2-A250-NA	271107

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America
NZMH2-A20-BT-NA	107797	1 Off	
NZMH2-A25-BT-NA	107798		
NZMH2-A32-BT-NA	107799		
NZMH2-A40-BT-NA	107800		
NZMH2-A50-BT-NA	107801		
NZMH2-A63-BT-NA	107802		
NZMH2-A80-BT-NA	107803		
NZMH2-A100-BT-NA	107804		
NZMH2-A125-BT-NA	107805		
NZMH2-A160-BT-NA	107806		
NZMH2-A200-BT-NA	107807		
NZMH2-A250-BT-NA	107808		

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting	
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

Basic switching capacity

SG07321 Symbolphoto

25	-	-	-	20	20 A fixed	350 A fixed	Screw terminals as accessories	
				25	25 A fixed	350 A fixed		
				30	30 A fixed	350 A fixed		
				35	35 A fixed	8 - 10		
				40	40 A fixed	8 - 10		
				45	45 A fixed	6 - 10		
				50	50 A fixed	6 - 10		
				60	60 A fixed	6 - 10		
				70	70 A fixed	6 - 10		
				80	80 A fixed	6 - 10		
				90	90 A fixed	6 - 10		
				100	100 A fixed	6 - 10		
				110	110 A fixed	6 - 10		
				125	125 A fixed	6 - 10		

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25	25	18	-	15	15 A fixed	350 A fixed	NZMB2-AF15-NA	269142
				20	20 A fixed	350 A fixed	NZMB2-AF20-NA	269143
				25	25 A fixed	350 A fixed	NZMB2-AF25-NA	269144
				30	30 A fixed	350 A fixed	NZMB2-AF30-NA	269145
				35	35 A fixed	8 - 10	NZMB2-AF35-NA	269146
				40	40 A fixed	8 - 10	NZMB2-AF40-NA	269147
				45	45 A fixed	6 - 10	NZMB2-AF45-NA	269148
				50	50 A fixed	6 - 10	NZMB2-AF50-NA	269149
				60	60 A fixed	6 - 10	NZMB2-AF60-NA	269160
				70	70 A fixed	6 - 10	NZMB2-AF70-NA	269161
				80	80 A fixed	6 - 10	NZMB2-AF80-NA	269162
				90	90 A fixed	6 - 10	NZMB2-AF90-NA	269163
				100	100 A fixed	6 - 10	NZMB2-AF100-NA	269164
				110	110 A fixed	6 - 10	NZMB2-AF110-NA	269165
				125	125 A fixed	6 - 10	NZMB2-AF125-NA	269166
				150	150 A fixed	6 - 10	NZMB2-AF150-NA	269167
				175	175 A fixed	6 - 10	NZMB2-AF175-NA	269168
				200	200 A fixed	6 - 10	NZMB2-AF200-NA	269169
				225	225 A fixed	6 - 10	NZMB2-AF225-NA	271089
				250	250 A fixed	6 - 10	NZMB2-AF250-NA	271100

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB1-AF20-NA	281554	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB1-AF25-NA	281555		UL File No.	E31593
NZMB1-AF30-NA	281556		UL Category Control No.	DIVQ
NZMB1-AF35-NA	272204		CSA File No.	022086
NZMB1-AF40-NA	272205		CSA Class No.	1432-01
NZMB1-AF45-NA	272206		North America Certification	UL listed, CSA certified
NZMB1-AF50-NA	272207		Specially designed for NA	Yes
NZMB1-AF60-NA	272208		Suitable for	Feeder circuits, branch circuits
NZMB1-AF70-NA	272209		Current Limiting Circuit breaker	Yes
NZMB1-AF80-NA	272250		Max. Voltage Rating	480Y/277 V
NZMB1-AF90-NA	272251		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB1-AF100-NA	272252			
NZMB1-AF110-NA	281557			
NZMB1-AF125-NA	281558			

NZMB2-AF15-BT-NA	107611	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-AF20-BT-NA	107612		UL File No.	E31593
NZMB2-AF25-BT-NA	107613		UL Category Control No.	DIVQ
NZMB2-AF30-BT-NA	107614		CSA File No.	022086
NZMB2-AF35-BT-NA	107615		CSA Class No.	1432-01
NZMB2-AF40-BT-NA	107616		North America Certification	UL listed, CSA certified
NZMB2-AF45-BT-NA	107617		Specially designed for NA	Yes
NZMB2-AF50-BT-NA	107618		Suitable for	Feeder circuits, branch circuits
NZMB2-AF60-BT-NA	107619		Current Limiting Circuit breaker	Yes
NZMB2-AF70-BT-NA	107620		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-AF80-BT-NA	107621		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-AF90-BT-NA	107622			
NZMB2-AF100-BT-NA	107623			
NZMB2-AF110-BT-NA	107624			
NZMB2-AF125-BT-NA	107625			
NZMB2-AF150-BT-NA	107626			
NZMB2-AF175-BT-NA	107627			
NZMB2-AF200-BT-NA	107628			
NZMB2-AF225-BT-NA	107629			
NZMB2-AF250-BT-NA	107630			

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection

Fixed overload releases I_r

Normal switching capacity

SG07321 Symbolphoto

35	-	-	-	20	20 A fixed	350 A fixed	Screw terminals as accessories	
				25	25 A fixed	350 A fixed		
				30	30 A fixed	350 A fixed		
				35	35 A fixed	8 - 10		
				40	40 A fixed	8 - 10		
				45	45 A fixed	6 - 10		
				50	50 A fixed	6 - 10		
				60	60 A fixed	6 - 10		
				70	70 A fixed	6 - 10		
				80	80 A fixed	6 - 10		
				90	90 A fixed	6 - 10		
				100	100 A fixed	6 - 10		
				110	110 A fixed	6 - 10		
				125	125 A fixed	6 - 10		

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35	35	25	-	15	15 A fixed	350 A fixed	NZMN2-AF15-NA	269170
				20	20 A fixed	350 A fixed	NZMN2-AF20-NA	269171
				25	25 A fixed	350 A fixed	NZMN2-AF25-NA	269172
				30	30 A fixed	350 A fixed	NZMN2-AF30-NA	269173
				35	35 A fixed	8 - 10	NZMN2-AF35-NA	269174
				40	40 A fixed	8 - 10	NZMN2-AF40-NA	269175
				45	45 A fixed	6 - 10	NZMN2-AF45-NA	269176
				50	50 A fixed	6 - 10	NZMN2-AF50-NA	269177
				60	60 A fixed	6 - 10	NZMN2-AF60-NA	269178
				70	70 A fixed	6 - 10	NZMN2-AF70-NA	269179
				80	80 A fixed	6 - 10	NZMN2-AF80-NA	269180
				90	90 A fixed	6 - 10	NZMN2-AF90-NA	269181
				100	100 A fixed	6 - 10	NZMN2-AF100-NA	269182
				110	110 A fixed	6 - 10	NZMN2-AF110-NA	269183
				125	125 A fixed	6 - 10	NZMN2-AF125-NA	269184
				150	150 A fixed	6 - 10	NZMN2-AF150-NA	269185
				175	175 A fixed	6 - 10	NZMN2-AF175-NA	269186
				200	200 A fixed	6 - 10	NZMN2-AF200-NA	269187
				225	225 A fixed	6 - 10	NZMN2-AF225-NA	271101
				250	250 A fixed	6 - 10	NZMN2-AF250-NA	271102

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMN1-AF20-NA	281565	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN1-AF25-NA	281566		UL File No.	E31593
NZMN1-AF30-NA	281567		UL Category Control No.	DIVQ
NZMN1-AF35-NA	274220		CSA File No.	022086
NZMN1-AF40-NA	274223		CSA Class No.	1432-01
NZMN1-AF45-NA	274230		North America Certification	UL listed, CSA certified
NZMN1-AF50-NA	274231		Specially designed for NA	Yes
NZMN1-AF60-NA	274232		Suitable for	Feeder circuits, branch circuits
NZMN1-AF70-NA	274233		Current Limiting Circuit breaker	Yes
NZMN1-AF80-NA	274234		Max. Voltage Rating	480Y/277 V
NZMN1-AF90-NA	274235		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN1-AF100-NA	274236			
NZMN1-AF110-NA	281568			
NZMN1-AF125-NA	281569			

NZMN2-AF15-BT-NA	107631	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-AF20-BT-NA	107632		UL File No.	E31593
NZMN2-AF25-BT-NA	107633		UL Category Control No.	DIVQ
NZMN2-AF30-BT-NA	107634		CSA File No.	022086
NZMN2-AF35-BT-NA	107635		CSA Class No.	1432-01
NZMN2-AF40-BT-NA	107636		North America Certification	UL listed, CSA certified
NZMN2-AF45-BT-NA	107637		Specially designed for NA	Yes
NZMN2-AF50-BT-NA	107638		Suitable for	Feeder circuits, branch circuits
NZMN2-AF60-BT-NA	107639		Current Limiting Circuit breaker	Yes
NZMN2-AF70-BT-NA	107640		Max. Voltage Rating	600Y/347 V, 480 V
NZMN2-AF80-BT-NA	107641		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-AF90-BT-NA	107642			
NZMN2-AF100-BT-NA	107643			
NZMN2-AF110-BT-NA	107644			
NZMN2-AF125-BT-NA	107645			
NZMN2-AF150-BT-NA	107646			
NZMN2-AF175-BT-NA	107647			
NZMN2-AF200-BT-NA	107648			
NZMN2-AF225-BT-NA	107649			
NZMN2-AF250-BT-NA	107650			

Compact circuit breakers, switch disconnectors 2.1
Circuit breakers UL/CSA, IEC, thermomagnetic releases, 3 pole
NZM...AF...NA

System and cable protection

Fixed overload releases I_r

High switching capacity

SG00222_L Symbolphoto

Switching capacity: SCCR 480Y/277 V 60 Hz, I_{cu} kA	SCCR 480 V 60 Hz, I_{cu} kA	SCCR 600Y/347 V 60 Hz, I_{cu} kA	SCCR 600 V 60 Hz, I_{cu} kA	Rated current = Rated uninterrupted current, $I_n = I_u$ A	Setting range: Overload releases, I_r A	Setting range: Short-circuit releases Non-delayed, $I_i = I_n x...$	Fixed mounting Part no.	Article no.
150	150	65	-	15	15 A fixed	350 A fixed	NZMH2-AF15-NA	269188
				20	20 A fixed	350 A fixed	NZMH2-AF20-NA	269189
				25	25 A fixed	350 A fixed	NZMH2-AF25-NA	269190
				30	30 A fixed	350 A fixed	NZMH2-AF30-NA	269191
				35	35 A fixed	8 - 10	NZMH2-AF35-NA	269192
				40	40 A fixed	8 - 10	NZMH2-AF40-NA	269193
				45	45 A fixed	6 - 10	NZMH2-AF45-NA	269194
				50	50 A fixed	6 - 10	NZMH2-AF50-NA	269195
				60	60 A fixed	6 - 10	NZMH2-AF60-NA	269196
				70	70 A fixed	6 - 10	NZMH2-AF70-NA	269197
				80	80 A fixed	6 - 10	NZMH2-AF80-NA	269198
				90	90 A fixed	6 - 10	NZMH2-AF90-NA	269199
				100	100 A fixed	6 - 10	NZMH2-AF100-NA	269200
				110	110 A fixed	6 - 10	NZMH2-AF110-NA	269201
				125	125 A fixed	6 - 10	NZMH2-AF125-NA	269202
100	100	50	-	150	150 A fixed	6 - 10	NZMH2-AF150-NA	269203
				175	175 A fixed	6 - 10	NZMH2-AF175-NA	269204
				200	200 A fixed	6 - 10	NZMH2-AF200-NA	269205
				225	225 A fixed	6 - 10	NZMH2-AF225-NA	271103
				250	250 A fixed	6 - 10	NZMH2-AF250-NA	271104

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America
NZMH2-AF15-BT-NA	107809	1 Off	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-AF20-BT-NA	107810		UL File No.: E31593
NZMH2-AF25-BT-NA	107811		UL Category Control No.: DIVQ
NZMH2-AF30-BT-NA	107812		CSA File No.: 022086
NZMH2-AF35-BT-NA	107813		CSA Class No.: 1432-01
NZMH2-AF40-BT-NA	107814		North America Certification: UL listed, CSA certified
NZMH2-AF45-BT-NA	107815		Specially designed for NA: Yes
NZMH2-AF50-BT-NA	107816		Suitable for: Feeder circuits, branch circuits
NZMH2-AF60-BT-NA	107817		Current Limiting Circuit breaker: Yes
NZMH2-AF70-BT-NA	107818		Max. Voltage Rating: 600Y/347 V, 480 V
NZMH2-AF80-BT-NA	107819		Degree of Protection: IEC: IP20; UL/CSA Type: -
NZMH2-AF90-BT-NA	107820		
NZMH2-AF100-BT-NA	107821		
NZMH2-AF110-BT-NA	107822		
NZMH2-AF125-BT-NA	107823		
NZMH2-AF150-BT-NA	107824		
NZMH2-AF175-BT-NA	107825		
NZMH2-AF200-BT-NA	107826		
NZMH2-AF225-BT-NA	107827		
NZMH2-AF250-BT-NA	107828		

Short-circuit protection

Motor protection in conjunction with contactor and overload relay
- with short-circuit release
- without overload release I_r

Basic switching capacity

WA_SG168221_L Symbolphoto

Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range short-circuit release Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.
1,2	7 - 12	Screw terminals	
2	6 - 11	as accessories	
3	6 - 11		
5	6 - 11		
8	6 - 11		
12	7 - 12		
18	7 - 12		
26	8 - 13		
33	8 - 14		
40	8 - 14		
50	8 - 14		
63	8 - 14		
80	8 - 14		
100	8 - 13		

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1,6	8 - 14	NZMB2-S1,6-CNA	269472
2,4	8 - 14	NZMB2-S2,4-CNA	269473
5	6 - 11	NZMB2-S5-CNA	103034
8	6 - 11	NZMB2-S8-CNA	103035
12	7 - 12	NZMB2-S12-CNA	103036
18	7 - 12	NZMB2-S18-CNA	103037
26	8 - 13	NZMB2-S26-CNA	103038
33	8 - 14	NZMB2-S33-CNA	103039
40	8 - 14	NZMB2-S40-CNA	269243
50	8 - 14	NZMB2-S50-CNA	269244
63	8 - 14	NZMB2-S63-CNA	269245
80	8 - 14	NZMB2-S80-CNA	269246
100	8 - 14	NZMB2-S100-CNA	269247
125	8 - 14	NZMB2-S125-CNA	269248
160	8 - 14	NZMB2-S160-CNA	269249
200	8 - 13	NZMB2-S200-CNA	269250
250	8 - 10	NZMB2-S250-CNA	102478

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB1-S1,2-CNA	102906	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09
NZMB1-S2-CNA	102907		UL File No.	E31593
NZMB1-S3-CNA	102908		UL Category Control No.	DKPU2
NZMB1-S5-CNA	102909		CSA File No.	022086
NZMB1-S8-CNA	103020		CSA Class No.	1432-01
NZMB1-S12-CNA	103021		North America Certification	UL recognized, CSA certified
NZMB1-S18-CNA	103022		Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
NZMB1-S26-CNA	103023			
NZMB1-S33-CNA	103024			
NZMB1-S40-CNA	281263			
NZMB1-S50-CNA	281264		Specially designed for NA	Yes
NZMB1-S63-CNA	281265		Suitable for	Branch circuits, feeder circuits
NZMB1-S80-CNA	281266		Current Limiting Circuit breaker	No
NZMB1-S100-CNA	281267		Max. Voltage Rating	480Y/277 V
			Degree of Protection	UL/CSA Type: -

NZMB2-S1,6-BT-CNA	107651	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09
NZMB2-S2,4-BT-CNA	107652		UL File No.	E31593
NZMB2-S5-BT-CNA	107653		UL Category Control No.	DKPU2
NZMB2-S8-BT-CNA	107654		CSA File No.	022086
NZMB2-S12-BT-CNA	107655		CSA Class No.	1432-01
NZMB2-S18-BT-CNA	107656		North America Certification	UL recognized, CSA certified
NZMB2-S26-BT-CNA	107657		Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
NZMB2-S33-BT-CNA	107658			
NZMB2-S40-BT-CNA	107659			
NZMB2-S50-BT-CNA	107660			
NZMB2-S63-BT-CNA	107661			
NZMB2-S80-BT-CNA	107662		Specially designed for NA	Yes
NZMB2-S100-BT-CNA	107663		Suitable for	Branch circuits, feeder circuits
NZMB2-S125-BT-CNA	107664		Current Limiting Circuit breaker	No
NZMB2-S160-BT-CNA	107665		Max. Voltage Rating	600Y/347 V, 480 V
NZMB2-S200-BT-CNA	107666		Degree of Protection	UL/CSA Type: -
NZMB2-S250-BT-CNA	107667			

Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.	Std. pack

Short-circuit protection

Motor protection in conjunction with contactor and overload relay
- With short-circuit releases
- Without overload releases I_r

Normal switching capacity

WA_SG168221_L Symbolphoto

1,2	7 - 12	NZMN1-S1,2-CNA	103025	1 Off
2	6 - 11	NZMN1-S2-CNA	103026	
3	6 - 11	NZMN1-S3-CNA	103027	
5	6 - 11	NZMN1-S5-CNA	103028	
8	6 - 11	NZMN1-S8-CNA	103029	
12	7 - 12	NZMN1-S12-CNA	103030	
18	7 - 12	NZMN1-S18-CNA	103031	
26	8 - 13	NZMN1-S26-CNA	103032	
33	8 - 14	NZMN1-S33-CNA	103033	
40	8 - 14	NZMN1-S40-CNA	281276	
50	8 - 14	NZMN1-S50-CNA	281277	
63	8 - 14	NZMN1-S63-CNA	281278	
80	8 - 14	NZMN1-S80-CNA	281279	
100	8 - 13	NZMN1-S100-CNA	281280	

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1,6	8 - 14	NZMN2-S1,6-CNA	269478	1 Off
2,4	8 - 14	NZMN2-S2,4-CNA	269479	
5	6 - 11	NZMN2-S5-CNA	103040	
8	6 - 11	NZMN2-S8-CNA	103041	
12	7 - 12	NZMN2-S12-CNA	103042	
18	7 - 12	NZMN2-S18-CNA	103043	
26	8 - 13	NZMN2-S26-CNA	103044	
33	8 - 14	NZMN2-S33-CNA	103045	
40	8 - 14	NZMN2-S40-CNA	269255	
50	8 - 14	NZMN2-S50-CNA	269256	
63	8 - 14	NZMN2-S63-CNA	269257	
80	8 - 14	NZMN2-S80-CNA	269258	
100	8 - 14	NZMN2-S100-CNA	269259	
125	8 - 14	NZMN2-S125-CNA	269260	
160	8 - 14	NZMN2-S160-CNA	269261	
200	8 - 13	NZMN2-S200-CNA	269262	
250	8 - 10	NZMN2-S250-CNA	102479	

High switching capacity

WA_SG02322_L Symbolphoto

1,6	8 - 14	NZMH2-S1,6-CNA	269482	1 Off
2,4	8 - 14	NZMH2-S2,4-CNA	269483	
5	6 - 11	NZMH2-S5-CNA	103046	
8	6 - 11	NZMH2-S8-CNA	103047	
12	7 - 12	NZMH2-S12-CNA	103048	
18	5 - 9	NZMH2-S18-CNA	103049	
26	8 - 13	NZMH2-S26-CNA	103050	
33	8 - 14	NZMH2-S33-CNA	103051	
40	8 - 14	NZMH2-S40-CNA	269267	
50	8 - 14	NZMH2-S50-CNA	269268	
63	8 - 14	NZMH2-S63-CNA	269269	
80	8 - 14	NZMH2-S80-CNA	269270	
100	8 - 14	NZMH2-S100-CNA	269271	
125	8 - 14	NZMH2-S125-CNA	269272	
160	8 - 13	NZMH2-S160-CNA	269273	
200	8 - 10	NZMH2-S200-CNA	269274	
250	8 - 14	NZMH2-S250-CNA	102490	

Information relevant for export to North America

For further terminal types see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	480Y/277 V
Degree of Protection	UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
NA Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09
UL File No.	E31593
UL Category Control No.	DKPU2
CSA File No.	022086
CSA Class No.	1432-01
NA Certification	UL recognized, CSA certified
Conditions of Acceptability	Only used in motor circuits in conjunction with suitable contactor and overload relay. SCCR value applies for complete combination starter only, consisting of instantaneous trip circuit breaker, contactor and overload relay.
Specially designed for NA	Yes
Suitable for	Branch circuits, feeder circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals		
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.	Std. pack
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

WA_SG02822_L Symbolphoto

35	35	25	-	40	20 - 40	2 - 12	NZMN2-AX40-NA*	195224	1 Off
				100	40 - 100	2 - 12	NZMN2-AX100-NA	195225	
				160	64 - 160	2 - 12	NZMN2-AX160-NA	195226	
				250	100 - 250	2 - 12	NZMN2-AX250-NA	195227	

*For availability information please contact your local Eaton sales team.

WA_SG00122_L Symbolphoto

42	42	35	35	250	100 - 250	2 - 11	NZMN3-AX250-NA	192484	1 Off
				400	160 - 400	2 - 11	NZMN3-AX400-NA	192485	
				600	240 - 600	2 - 8	NZMN3-AX600-NA	192486	

WA_SG01222_L Symbolphoto

42	42	35	35	800	320 - 800	2 - 12	NZMN4-AX800-NA	192542	1 Off
				1000	400 - 1000	2 - 12	NZMN4-AX1000-NA	192543	
				1200	480 - 1200	2 - 12	NZMN4-AX1200-NA	192544	

Information relevant for export to North America

For further terminal types see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

System and cable protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

High switching capacity

WA_SG02822_L Symbolphoto

100	100	50	-	40	20 - 40	2 - 12	NZMH2-AX40-NA*	195228	1 Off
				100	40 - 100	2 - 12	NZMH2-AX100-NA	195229	
				160	64 - 160	2 - 12	NZMH2-AX160-NA	195230	
				250	100 - 250	2 - 12	NZMH2-AX250-NA	195231	

*For availability information please contact your local Eaton sales team.

WA_SG00122_L Symbolphoto

100	100	50	50	250	100 - 250	2 - 11	NZMH3-AX250-NA	192496	1 Off
				400	160 - 400	2 - 11	NZMH3-AX400-NA	192497	
				600	240 - 600	2 - 8	NZMH3-AX600-NA	192498	

WA_SG01222_L Symbolphoto

65*	65*	50	50	800	320 - 800	2 - 12	NZMH4-AX800-NA	192560	1 Off
				1000	400 - 1000	2 - 12	NZMH4-AX1000-NA	192561	
				1200	480 - 1200	2 - 12	NZMH4-AX1200-NA	192562	

*For further information please contact your Eaton sales person

Information relevant for export to North America

For further terminal types see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600Y/347 V, 480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting	
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

Motor protection 100 % rated

Adjustable overload releases
For use in motor circuits with contactor.
Additional motor protective characteristics (calibration) to UL508, CSA-C22.2 No. 14-05.

Normal switching capacity

WA_SG02922_L Symbolphoto

35	35	-	-	90	36-90	2 - 18	NZMN2-MX90-NA	192523
				140	56-140	2 - 18	NZMN2-MX140-NA	192524
				200	80-200	2 - 15	NZMN2-MX200-NA	192439

High switching capacity

WA_SG02922_L Symbolphoto

100	100	-	-	90	36-90	2 - 18	NZMH2-MX90-NA	192462
				140	56-140	2 - 18	NZMH2-MX140-NA	192463
				200	80-200	2 - 15	NZMH2-MX200-NA	192464

WA_SG00722_L Symbolphoto

100	100	-	-	250	100 - 250	2 - 18	NZMH3-MX250-NA	193347
				350	140 - 350	2 - 15	NZMH3-MX350-NA	193348
				450	180 - 450	2 - 12	NZMH3-MX450-NA	193349

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMN2-MX90-BT-NA	192440	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-MX140-BT-NA	192441		UL File No.	E31593
NZMN2-MX200-BT-NA	192442		UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMH2-MX90-BT-NA	192465	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-MX140-BT-NA	192466		UL File No.	E31593
NZMH2-MX200-BT-NA	192467		UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL CCN	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			NA Certification	UL Listed, CSA certified
			Specially designed for NA	Yes, additionally calibrated according to UL 508
			Suitable for	Feeder circuits, branch circuits
			Current Limiting CB	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting	
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

WA_SG02622_L Symbolphoto

35	35	25	-	100	40 - 100	2 - 18	NZMN2-VX100-NA	192448
				160	64 - 160	2 - 18	NZMN2-VX160-NA	192449
				250	100 - 250	2 - 12	NZMN2-VX250-NA	192450

SG09021_L Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-VX250-NA	192502
				400	160 - 400	2 - 12	NZMN3-VX400-NA	192503
				600	240 - 600	2 - 8	NZMN3-VX600-NA	192504

WA_SG01022_L Symbolphoto

42	42	35	35	800	320 - 800	2 - 18	NZMN4-VX800-NA	192551
				1000	400 - 1000	2 - 18	NZMN4-VX1000-NA	192552
				1200	480 - 1200	2 - 15	NZMN4-VX1200-NA	192553

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMN2-VX100-BT-NA	192517	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-VX160-BT-NA	192518		UL File No.	E31593
NZMN2-VX250-BT-NA	192519		UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600Y/347 V, 480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
-		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	No
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

WA_SG02622_L Symbolphoto

35	35	25	-	100	40 - 100	2 - 18	NZMN2-VX100-T-NA	306506
				160	64 - 160	2 - 18	NZMN2-VX160-T-NA	306507
				250	100 - 250	2 - 12	NZMN2-VX250-T-NA	306508

SG09021_L Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-VX250-T-NA	306530
				400	160 - 400	2 - 12	NZMN3-VX400-T-NA	306543
				600	240 - 600	2 - 8	NZMN3-VX600-T-NA	306556

WA_SG01022_L Symbolphoto

42	42	35	35	800	320 - 800	2 - 18	NZMN4-VX800-T-NA	306569
				1000	400 - 1000	2 - 18	NZMN4-VX1000-T-NA	306574
				1200	480 - 1200	2 - 15	NZMN4-VX1200-T-NA	306585

Information relevant for export to North America

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	
UL Category Control No.	
CSA File No.	
CSA Class No.	
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	
UL Category Control No.	
CSA File No.	
CSA Class No.	
North America Certification	
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting	
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed	Part no.	Article no.
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

Adjustable overload release Ir
R.m.s. value measurement and "thermal memory"

High switching capacity

WA_SG02622_L Symbolphoto

100	100	50	-	100	40 - 100	2 - 18	NZMH2-VX100-NA	192473
				160	64 - 160	2 - 18	NZMH2-VX160-NA	192474
				250	100 - 250	2 - 12	NZMH2-VX250-NA	192475

SG09021_L Symbolphoto

100	100	50	50	250	100 - 250	2 - 18	NZMH3-VX250-NA	192533
				400	160 - 400	2 - 12	NZMH3-VX400-NA	192534
				600	240 - 600	2 - 8	NZMH3-VX600-NA	192535

WA_SG01022_L Symbolphoto

65*	65*	50	50	800	320 - 800	2 - 18	NZMH4-VX800-NA	192569
				1000	400 - 1000	2 - 18	NZMH4-VX1000-NA	192570
				1200	480 - 1200	2 - 15	NZMH4-VX1200-NA	192571

*For further information please contact your local Eaton sales team.

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMH2-VX100-BT-NA	192459	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-VX160-BT-NA	192460		UL File No.	E31593
NZMH2-VX250-BT-NA	192461		UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600Y/347 V, 480 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
Terminals as accessory		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	Yes
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -
-		1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
			UL File No.	E31593
			UL Category Control No.	DIVQ
			CSA File No.	022086
			CSA Class No.	1432-01
			North America Certification	UL listed, CSA certified
			Specially designed for NA	Yes
			Suitable for	Feeder circuits, branch circuits
			Current Limiting Circuit breaker	No
			Max. Voltage Rating	600 V
			Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting Part no.	Article no.
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed		
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$		

System and cable protection, selectivity and generator protection

Adjustable overload release I_r
R.m.s. value measurement and "thermal memory"

Normal switching capacity

WA_SG02622_L Symbolphoto

100	100	50	-	100	40 - 100	2 - 18	NZMH2-VX100-T-NA	306518
				160	64 - 160	2 - 18	NZMH2-VX160-T-NA	306528
				250	100 - 250	2 - 12	NZMH2-VX250-T-NA	306529

SG09021_L Symbolphoto

100	100	50	50	250	100 - 250	2 - 18	NZMH3-VX250-T-NA	306557
				400	160 - 400	2 - 12	NZMH3-VX400-T-NA	306558
				600	240 - 600	2 - 8	NZMH3-VX600-T-NA	306560

WA_SG01022_L Symbolphoto

65*	65*	50	50	800	320 - 800	2 - 18	NZMH4-VX800-T-NA	306586
				1000	400 - 1000	2 - 18	NZMH4-VX1000-T-NA	306587
				1200	480 - 1200	2 - 15	NZMH4-VX1200-T-NA	306588

*For further information please contact your local Eaton sales team.

Information relevant for export to North America

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards -	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
	UL File No.
	UL Category Control No.
	CSA File No.
	CSA Class No.
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
	UL File No.
	UL Category Control No.
	CSA File No.
	CSA Class No.
	North America Certification
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Switching capacity				Rated current =	Setting range		Fixed mounting with screw terminals Part no.	Article no.	Std. pack
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Overload releases	Short-circuit releases Non-delayed			
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_r A	$I_i = I_n x...$			

Motor protection

100% rated
Adjustable overload releases
For use in motor circuits with contactor.
Additional motor protective characteristics (calibration) to UL508, CSA-C22.2 No. 14-05.

Normal switching capacity

WA_SG02422_L Symbolphoto

35	35	25	-	90	36 - 90	2 - 18	NZMN2-PMX90-NA	192580	1 Off
				140	56 - 140	2 - 18	NZMN2-PMX140-NA	192581	
				200	80 - 200	2 - 15	NZMN2-PMX220-NA	192582	

WA_SG00822_L Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-PMX250-NA	193350	1 Off
				350	140 - 350	2 - 15	NZMN3-PMX350-NA	193351	
				450	180 - 450	2 - 12	NZMN3-PMX450-NA	193352	

High switching capacity

WA_SG02422_L Symbolphoto

100	100	50	-	90	36 - 90	2 - 18	NZMH2-PMX90-NA	192583	1 Off
				140	56 - 140	2 - 18	NZMH2-PMX140-NA	192584	
				200	80 - 200	2 - 15	NZMH2-PMX200-NA	192585	

WA_SG00822_L Symbolphoto

100	100	50	50	250	100 - 250	2 - 18	NZMH3-PMX250-NA	193353	1 Off
				350	140 - 350	2 - 15	NZMH3-PMX350-NA	193354	
				450	180 - 450	2 - 12	NZMH3-PMX450-NA	193355	

Information relevant for export to North America

For further terminal types see accessories

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	480 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes, additionally calibrated according to UL 508
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	Yes
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Circuit breakers UL/CSA, IEC, electronic releases with energy meter function, 3 pole NZM...PX...NA

System and cable protection, selectivity and generator protection

For further terminal types see accessories

Fixed overload releases I_r

Normal switching capacity

Switching capacity SCCR 480Y/277 V 60 Hz I_{cu} kA	SCCR 480 V 60 Hz I_{cu} kA	SCCR 600Y/347 V 60 Hz I_{cu} kA	SCCR 600 V 60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range Overload releases I_r A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.	Std. pack
35	35	25	-	40	20 - 40	2 - 18	NZMN2-PX40-NA*	192572	1 Off
				100	40 - 100	2 - 18	NZMN2-PX100-NA	192573	
				160	64 - 160	2 - 18	NZMN2-PX160-NA	192574	
				250	100 - 250	2 - 12	NZMN2-PX250-NA	192575	

*For availability information please contact your local Eaton sales team.

WA_SG02422_L Symbolphoto

42	42	35	35	250	100 - 250	2 - 18	NZMN3-PX250-NA	192586	1 Off
				400	160 - 400	2 - 12	NZMN3-PX400-NA	192587	
				600	240 - 600	2 - 8	NZMN3-PX600-NA	192588	

WA_SG00822_L Symbolphoto

42	42	35	35	800	320 - 800	2 - 18	NZMN4-PX800-NA	192592	1 Off
				1000	400 - 1000	2 - 18	NZMN4-PX1000-NA	192593	
				1200	480 - 1200	2 - 15	NZMN4-PX1200-NA	192594	

SG10321_L Symbolphoto

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Circuit breakers UL/CSA, IEC, electronic releases with energy meter function, 3 pole NZM...PX...NA

System and cable protection

For further terminal types see accessories

Fixed overload releases I_r

High switching capacity

Switching capacity SCCR 480Y/277 V 60 Hz I_{cu} kA	SCCR 480 V 60 Hz I_{cu} kA	SCCR 600Y/347 V 60 Hz I_{cu} kA	SCCR 600 V 60 Hz I_{cu} kA	Rated current = Rated uninter-rupted current $I_n = I_u$ A	Setting range Overload releases I_r A	Setting range Short-circuit releases Non-delayed $I_i = I_n x...$	Fixed mounting with screw terminals Part no.	Article no.	Std. pack
100	100	50	-	40	20 - 40	2 - 18	NZMH2-PX40-NA*	192576	1 Off
				100	40 - 100	2 - 18	NZMH2-PX100-NA	192577	
				160	64 - 160	2 - 18	NZMH2-PX160-NA	192578	
				250	100 - 250	2 - 12	NZMH2-PX250-NA	192579	

*For availability information please contact your local Eaton sales team.

WA_SG02422_L Symbolphoto

100	100	50	50	250	100 - 250	2 - 18	NZMH3-PX250-NA	192589	1 Off
				400	160 - 400	2 - 12	NZMH3-PX400-NA	192590	
				600	240 - 600	2 - 8	NZMH3-PX600-NA	192591	

WA_SG00822_LSymbolphoto

65*	65*	50	50	800	320 - 800	2 - 18	NZMH4-PX800-NA	192595	1 Off
				1000	400 - 10002 - 18		NZMH4-PX1000-NA	192596	
				1200	480 - 12002 - 15		NZMH4-PX1200-NA	192597	

*SCCR values valid only until Q1/2023

SG10321_L Symbolphoto

Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.	E31593
UL Category Control No.	DIVQ
CSA File No.	022086
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for NA	Yes
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit breaker	No
Max. Voltage Rating	600 V
Degree of Protection	IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors 2.5
Circuit breakers UL/CSA, IEC, thermomagnetic releases, 4 pole
NZM...-4-AF...NA

System and cable protection

Fixed overload releases I_r

Basic switching capacity

SG00122_L Symbolphoto

Switching capacity: SCCR 480Y/277 V 60 Hz, I_{cu} kA	SCCR 480 V 60 Hz, I_{cu} kA	SCCR 600Y/347 V 60 Hz, I_{cu} kA	SCCR 600 V 60 Hz, I_{cu} kA	Rated current = Rated uninterrupted current, $I_n = I_u$ A	Setting range: Neutral conductor I_r x % of phase conductor	Overload releases I_r A	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting Part no.	Article no.
25	25	-	-	60	100	60 A fixed	6 - 10	-	
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	-	
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	-	
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	-	
				150	100	150 A fixed	6 - 10	-	
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	-	
				225	100	225 A fixed	6 - 10	-	
				250	100	250 A fixed	6 - 10	-	

Normal switching capacity

SG00122_L Symbolphoto

Switching capacity: SCCR 480Y/277 V 60 Hz, I_{cu} kA	SCCR 480 V 60 Hz, I_{cu} kA	SCCR 600Y/347 V 60 Hz, I_{cu} kA	SCCR 600 V 60 Hz, I_{cu} kA	Rated current = Rated uninterrupted current, $I_n = I_u$ A	Setting range: Neutral conductor I_r x % of phase conductor	Overload releases I_r A	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting Part no.	Article no.
35	35	-	-	60	100	60 A fixed	6 - 10	NZMN2-4-AF60-NA	190347
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	NZMN2-4-AF80-NA	190348
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	NZMN2-4-AF100-NA	190349
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	NZMN2-4-AF125-NA	190350
				150	100	150 A fixed	6 - 10	NZMN2-4-AF150-NA	190351
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	NZMN2-4-AF200-NA	190352
				225	100	225 A fixed	6 - 10	NZMN2-4-AF225-NA	190353
				250	100	250 A fixed	6 - 10	NZMN2-4-AF250-NA	190354

High switching capacity

SG00122_L Symbolphoto

Switching capacity: SCCR 480Y/277 V 60 Hz, I_{cu} kA	SCCR 480 V 60 Hz, I_{cu} kA	SCCR 600Y/347 V 60 Hz, I_{cu} kA	SCCR 600 V 60 Hz, I_{cu} kA	Rated current = Rated uninterrupted current, $I_n = I_u$ A	Setting range: Neutral conductor I_r x % of phase conductor	Overload releases I_r A	Short-circuit releases Non-delayed $I_i = I_n$x...	Fixed mounting Part no.	Article no.
150	150	-	-	60	100	60 A fixed	6 - 10	-	
				70	100	70 A fixed	6 - 10	-	
				80	100	80 A fixed	6 - 10	-	
				90	100	90 A fixed	6 - 10	-	
				100	100	100 A fixed	6 - 10	-	
				110	100	110 A fixed	6 - 10	-	
				125	100	125 A fixed	6 - 10	-	
				150	100	150 A fixed	6 - 10	-	
				175	100	175 A fixed	6 - 10	-	
				200	100	200 A fixed	6 - 10	-	
				225	100	225 A fixed	6 - 10	-	
				250	100	250 A fixed	6 - 10	NZMH2-4-AF250-NA	172967

For further terminal types see accessories

Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America	
NZMB2-4-AF60-BT-NA	153380	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMB2-4-AF70-BT-NA	153381		UL File No.	E31593
NZMB2-4-AF80-BT-NA	153382		UL Category Control No.	DIVQ
NZMB2-4-AF90-BT-NA	153383		CSA File No.	-
NZMB2-4-AF100-BT-NA	153384		CSA Class No.	-
NZMB2-4-AF110-BT-NA	153385		North America Certification	UL listed
NZMB2-4-AF125-BT-NA	113011		Specially designed for NA	Yes
NZMB2-4-AF150-BT-NA	113012		Suitable for	Feeder circuits, branch circuits
NZMB2-4-AF175-BT-NA	113013		Current Limiting Circuit breaker	Yes
NZMB2-4-AF200-BT-NA	113014		Max. Voltage Rating	480 V
NZMB2-4-AF225-BT-NA	113015		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMB2-4-AF250-BT-NA	113016			

NZMN2-4-AF60-BT-NA	153386	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMN2-4-AF70-BT-NA	153387		UL File No.	E31593
NZMN2-4-AF80-BT-NA	153388		UL Category Control No.	DIVQ
NZMN2-4-AF90-BT-NA	153389		CSA File No.	-
NZMN2-4-AF100-BT-NA	153390		CSA Class No.	-
NZMN2-4-AF110-BT-NA	153391		North America Certification	UL listed
NZMN2-4-AF125-BT-NA	113005		Specially designed for NA	Yes
NZMN2-4-AF150-BT-NA	113006		Suitable for	Feeder circuits, branch circuits
NZMN2-4-AF175-BT-NA	113007		Current Limiting Circuit breaker	Yes
NZMN2-4-AF200-BT-NA	113008		Max. Voltage Rating	480 V
NZMN2-4-AF225-BT-NA	113009		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMN2-4-AF250-BT-NA	113010			

NZMH2-4-AF60-BT-NA	153392	1 Off	Product Standards	UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
NZMH2-4-AF70-BT-NA	153393		UL File No.	E31593
NZMH2-4-AF80-BT-NA	153394		UL Category Control No.	DIVQ
NZMH2-4-AF90-BT-NA	153395		CSA File No.	-
NZMH2-4-AF100-BT-NA	153396		CSA Class No.	-
NZMH2-4-AF110-BT-NA	153397		North America Certification	UL listed
NZMH2-4-AF125-BT-NA	113017		Specially designed for NA	Yes
NZMH2-4-AF150-BT-NA	113018		Suitable for	Feeder circuits, branch circuits
NZMH2-4-AF175-BT-NA	113019		Current Limiting Circuit breaker	Yes
NZMH2-4-AF200-BT-NA	113020		Max. Voltage Rating	480 V
NZMH2-4-AF225-BT-NA	113021		Degree of Protection	IEC: IP20; UL/CSA Type: -
NZMH2-4-AF250-BT-NA	113022			

Switching capacity				Rated current =	Setting range	Fixed mounting Part no.	Article no.	Fixed mounting with box terminals Part no.	Article no.	Std. pack	Information relevant for export to North America
SCCR 480Y/277 V 60 Hz	SCCR 480 V 60 Hz	SCCR 600Y/347 V 60 Hz	SCCR 600 V 60 Hz	Rated uninterrupted current	Short-circuit release						
I_{cu} kA	I_{cu} kA	I_{cu} kA	I_{cu} kA	$I_n = I_u$ A	I_i A						

Molded case switches for North America

With permanently set short-circuit release (self-protection)
Can be remotely operated with shunt release XU/XA, remote operator XR,
Can be equipped with trip-indicating auxiliary contact M22-K...

For further terminal types see accessories

3 switch positions I, +, 0

SG07221_L Symbolphoto

35	-	-	-	63	1250 A fixed	Screw terminals as accessories		NS1-63-NA	102681	1 Off
				100	1250 A fixed			NS1-100-NA	102682	
				125	1250 A fixed			NS1-125-NA	102683	

Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.: E148671
UL Category Control No.: WJAZ
CSA File No.: 022086
CSA Class No.: 4652-06
North America Certification: UL listed, CSA certified
Specially designed for NA: Yes
Suitable for: Feeder circuits, branch circuits
Current Limiting Circuit breaker: No
Max. Voltage Rating: 480Y/277 V
Degree of Protection: IEC: IP20; UL/CSA Type: -

SG08721_L Symbolphoto

100	100	50	-	160	2500 A fixed	NS2-160-NA	102684	NS2-160-BT-NA	107578	
				200	2500 A fixed	NS2-200-NA	102685	NS2-200-BT-NA	107579	
				250	2500 A fixed	NS2-250-NA	102686	NS2-250-BT-NA	107610	

Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.: E148671
UL Category Control No.: WJAZ
CSA File No.: 022086
CSA Class No.: 4652-06
North America Certification: UL listed, CSA certified
Specially designed for NA: Yes
Suitable for: Feeder circuits, branch circuits
Current Limiting Circuit breaker: No
Max. Voltage Rating: 600Y/347 V
Degree of Protection: IEC: IP20; UL/CSA Type: -

SG09421_L Symbolphoto

100	100	50	50	400	6600 A fixed	NS3-400-NA	102687	Terminals as accessory	
				600	6600 A fixed	NS3-600-NA	102688		

Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.: E148671
UL Category Control No.: WJAZ
CSA File No.: 022086
CSA Class No.: 4652-06
North America Certification: UL listed, CSA certified
Specially designed for NA: Yes
Suitable for: Feeder circuits, branch circuits
Current Limiting Circuit breaker: No
Max. Voltage Rating: 600 V
Degree of Protection: IEC: IP20; UL/CSA Type: -

WA_SG170921_L Symbolphoto

65	65	42	42	800	25000 A fixed	NS4-800-NA	102689	-	
				1000	25000 A fixed	NS4-1000-NA	102690		
				1200	25000 A fixed	NS4-1200-NA	102691		

Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947-2; CE marking
UL File No.: E148671
UL Category Control No.: WJAZ
CSA File No.: 022086
CSA Class No.: 4652-06
North America Certification: UL listed, CSA certified
Specially designed for NA: Yes
Suitable for: Feeder circuits, branch circuits
Current Limiting Circuit breaker: No
Max. Voltage Rating: 600 V
Degree of Protection: IEC: IP20; UL/CSA Type: -

Compact circuit breakers, switch disconnectors

Circuit breakers IEC for 1000 V AC, 3 pole
NZM... Releases

Switching capacity 1000 V 50/60 Hz	Rated current = Rated uninterrupted current	Setting range: Overload releases	Setting range: Short-circuit releases Non-delayed	Fixed mounting Part no.	Article no.	Std. pack
I_{cu} kA	$I_n = I_u$ A	I_r A	$I_{sd} = I_r x$ …			

System and cable protection

Thermomagnetic releases

SG08021_L Symbolphoto

10	20	15 - 20	350 A fixed	NZMH2-A20-S1	290355	1 Off
	25	20 - 25	350 A fixed	NZMH2-A25-S1	290356	
	32	25 - 32	350 A fixed	NZMH2-A32-S1	290357	
	40	32 - 40	8 - 10	NZMH2-A40-S1	290358	
	50	40 - 50	6 - 10	NZMH2-A50-S1	290359	
	63	50 - 63	6 - 10	NZMH2-A63-S1	290360	
	80	63 - 80	6 - 10	NZMH2-A80-S1	290361	
	100	80 - 100	6 - 10	NZMH2-A100-S1	290362	
	125	100 - 125	6 - 10	NZMH2-A125-S1	290363	
	160	125 - 160	6 - 10	NZMH2-A160-S1	290364	
	200	160 - 200	6 - 10	NZMH2-A200-S1	290365	
	250	200 - 250	6 - 10	NZMH2-A250-S1	290366	
	300	240 - 300	5 - 8.3	NZMH2-A300-S1	107577	

Compact circuit breakers, switch disconnectors

Switch disconnectors IEC for 1000 V DC, 1/2 pole
N...DC

Rated current = Rated uninterrupted current	Rated operating voltage	Rated short-time withstand current	Short-circuit protection max. fuse gR characteristic	Fixed mounting Part no.	Article no.	Std. pack
I_n A	U_e V	I_{cw} (N2/N3: t=1s, N4: t=0.1s) kA	A			

Switch disconnectors for 1000 V DC

SG08221_L Symbolphoto

160	1000	3.6	200	N2-4-160-S1-DC	127732	1 Off
200	1000	3.6	200	N2-4-200-S1-DC	127733	
250	1000	3.6	200	N2-4-250-S1-DC	154940	

SG09921_L Symbolphoto

320	1000	6.6	2x250	N3-4-320-S1-DC	127734	1 Off
400	1000	6.6	2x250	N3-4-400-S1-DC	142267	
500	1000	6.6	2x250	N3-4-500-S1-DC	142268	
550	1000	6.6	2x250	N3-4-550-S1-DC	168567	

SG10521_L Symbolphoto

800	1000	34	-	N4-4-800-S1-DC	119890	1 Off
1000	1000	34	-	N4-4-1000-S1-DC	119891	
1250	1000	34	-	N4-4-1250-S1-DC	119886	
1400	1000	34	-	N4-4-1400-S1-DC	119887	
1600	1000	34	-	N4-4-1600-S1-DC	152552	

SG10521_L Symbolphoto

800	1000	34	-	N4-4-800-S1-PV-NA	179325	1 Off
1000	1000	34	-	N4-4-1000-S1-PV-NA	179326	
1100	1000	34	-	N4-4-1100-S1-PV-NA	179591	
1200	1000	34	-	N4-4-1200-S1-PV-NA	179327	

Switch disconnectors IEC for 1500 V DC, 1/2 pole
N...DC

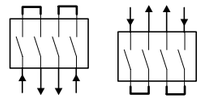
Rated current = Rated uninterrupted current I_n A	Rated operating voltage U_e V	Rated short-time withstand current I_{cw} (N2/N3: t=1s, N4: t=0.1s) kA	Short-circuit protection max. fuse gR characteristic A	Fixed mounting Part no.	Article no.	Std. pack
Switch disconnectors for 1500 V DC						
SG08221_L Symbolphoto						
160	1500	3.6	-	N2-4-160-S15-DC	167688	1 Off
200	1500	3.6	-	N2-4-200-S15-DC	167689	
250	1500	3.6	-	N2-4-250-S15-DC	167690	
SG09921_L Symbolphoto						
320	1500	6.6	-	N3-4-320-S15-DC	166407	1 Off
400	1500	6.6	-	N3-4-400-S15-DC	166408	
500	1500	6.6	-	N3-4-500-S15-DC	166409	
550	1500	6.6	-	N3-4-550-S15-DC	168568	
SG10521_L Symbolphoto						
800	1500	34	-	N4-4-800-S15-DC	166413	1 Off
1000	1500	34	-	N4-4-1000-S15-DC	166414	
1250	1500	34	-	N4-4-1250-S15-DC	166415	
1400	1500	34	-	N4-4-1400-S15-DC	166416	
1600	1500	34	-	N4-4-1600-S15-DC	166417	
SG10521_L Symbolphoto						
800	1500	34	-	N4-4-800-S15-PV-NA	179328	1 Off
1000	1500	34	-	N4-4-1000-S15-PV-NA	179329	
1100	1500	34	-	N4-4-1100-S15-PV-NA	179592	
1200	1500	34	-	N4-4-1200-S15-PV-NA	179330	

Circuit breakers EC for 500/750 V DC, 1/2 pole
NZM... -A Releases

Switching capacity 1000 V 50/60 Hz I_{cu} kA	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range: Overload releases I_r A	Setting range: Short-circuit releases Non-delayed $I_{sd} = I_r x \ldots$	Fixed mounting Part no.	Article no.	Std. pack
System and cable protection						
Thermomagnetic -A Releases						
SG09521_L Symbolphoto						
30	400	320 - 400	2150 A DC fixed	NZMN3-A400-S07-DC	189599	1 Off
SG09521_L Symbolphoto						
30	400	320 - 400	2150 A DC fixed	NZMN3-A400-S07-DC-PIT	189600	1 Off

Photovoltaic - Switch disconnectors up to 1500 V
Bridge kits

Rated current = 2 pole (+ and -) on one side I_n A	Protection class	For use with	Notes	Part no.	Article no.	Std. pack



Bridge kits NZM...-XKV...2P...

Model contains parts for upper or lower row of switchgear side for 4 pole switches N4-4…-S1(S15)…
that are used as 2 pole switches for DC
The links each connect two contacts in series
Incoming unit and outgoer at bottom according to the switching diagrams
N4-4-... ≥1250A at 65°C alternate connection at bottom through module plates NZM4-4-XKM2S-1600
For IEC application: For N4-4 -...- S15-PV-NA, feed only from below in connection with NZM4-4-XKV(I)2P(-K).

1230PIC-690, 1230PIC-1015 Symbolphoto

Incl. cover

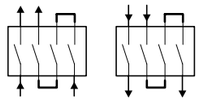
225 (40°C,) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC		NZM2-4-XKV2P	131730	1 Off
250 (40°C,) 190 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV2P-K	168585	
517 (40°C,) 435 (65°C)	IP2X	N3-4-...-S1(-S15)-DC		NZM3-4-XKV2P	131731	
550 (40°C,) 468 (65°C)	IP2X	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV2P-K	142271	
1400 (40°C) 1260 (65°C)	IP2X	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA		NZM4-4-XKV2P	119888	

1230PIC-1016, 1230PIC-1017Symbolphoto

Incl. insulation plates and phase separator

238 (40°C) 180 (65°C)	IP00	N2-4-...-S1(-S15)-DC		NZM2-4-XKVI2P	168586	1 Off
250 (40°C) 213 (65°C)	IP00	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI2P-K	168587	
400 (40°C,) 338 (65°C)	IP2X	N3-4-...-S1(-S15)-DC		NZM3-4-XKV2POU	168589	
550 (40°C) 501 (65°C)	IP00	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKVI2P-K	142270	
1400A (40°C) 1260A (65°C)	IP00	N4-4-800(1000)(1250)(1400)-S1(S15)-DC N4-4-...-S1(S15)-PV-NA		NZM4-4-XKVI2P	180020	
1600 (40°C) 1500 (65°C)	IP00	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA	Incl. cooling unit	NZM4-4-XKV2P-K	152553	

Rated current = 2 pole (+ and -) Double-sided I_n A | Protecton class | For use with | Notes | Part no. | Article no. | Std. pack



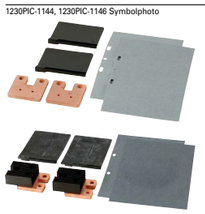
Bridge kits NZM...-XKV...2POU...

Model contains parts for upper and lower row of switchgear side for 4 pole switches N...-S1(S15)-DC
that are used as 2 pole switches for DC
The links each connect three contacts in series
Incoming unit and outgoer at bottom or top, according to the switching diagrams

1230PIC-1138, 1230PIC-1311 Symbolphoto

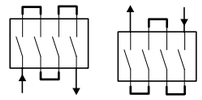
Incl. cover						
200 (40°C) 160 (65°C)	IP2X	N2-4-...-S1(-S15)-DC		NZM2-4-XKV2POU	144070	1 Off
225 (40°C) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV2POU-K	168588	
400 (40°C) 388 (65°C)	IP2X	N3-4-...S1(S15)-DC		NZM3-4-XKV2POU	168589	
517 (40°C) 435 (65°C)	IP2X	N3-4-...-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV2POU-K	168590	

1230PIC-1144, 1230PIC-1146 Symbolphoto



Incl. insulation plates and phase separator						
213 (40°C) 160 (65°C)	IP00	N2-4-…-S1(-S15)-DC		NZM2-4-XKVI2POU	170118	1 Off
238 (40°C) 180 (65°C)	IP00	N2-4-…-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI2POU-K	170119	
501 (40°C) 418 (65°C)	IP00	N3-4-…-S1(-S15)-DC		NZM3-4-XKVI2POU	170120	
534 (40°C) 451 (65°C)	IP00	N3-4-…-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKVI2POU-K	170121	

Rated current = 1 pole (+ or -) on one side I_n A | Protection class | For use with | Notex | Part no. | Article no. | Std. pack



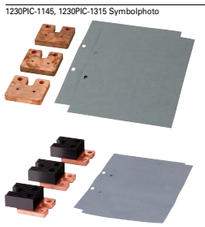
Bridge kits NZM...-XKV...1P...

Model contains parts for upper and lower row of switchgear side for 4 pole switches N4-4…-S1(S15)…
that are used as 1 pole switches for DC
The links each connect four contact in series (plus or minus)
Incoming unit and outgoer at bottom or top, according to the switching diagrams

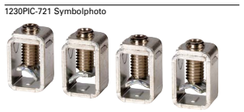
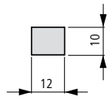
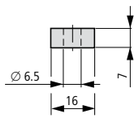
1230PIC-1313, 1230PIC-1310 Symbolphoto

Incl. cover						
200 (40°C) 160 (65°C)	IP2X	N2-4-160(200)-S1 (-S15)-DC		NZM2-4-XKV1P	168591	1 Off
225 (40°C) 170 (65°C)	IP2X	N2-4-...-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKV1P-K	168592	
400 (40°C) 338 (65°C)	IP2X	N3-4-320(400)-S1(-S15)-DC		NZM3-4-XKV1P	168593	
517 (40°C) 435 (65°C)	IP2X	N3-4-400(500)-S1(-S15)-DC	Incl. cooling unit	NZM3-4-XKV1P-K	168594	
1274 (40°C) 1138 (65°C)	IP2X	N4-4-...-S1(-S15)-DC N4-4-800(1000)(1100)-S1(-S15)-PV-NA		NZM4-4-XKV1P	119889	

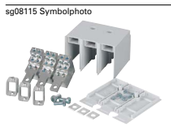
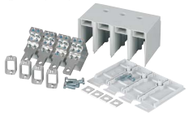
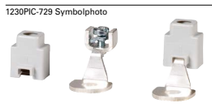
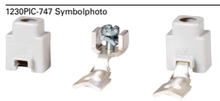
1230PIC-1145, 1230PIC-1315 Symbolphoto



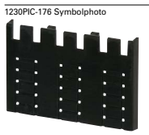
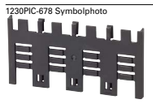
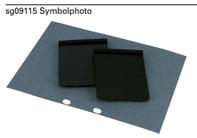
Incl. insulation plates						
213 (40°C) 160 (65°C)	IP00	N2-4-...-S1(-S15)-DC		NZM2-4-XKVI1P	168595	1 Off
238 (40°C) 180 (65°C)	IP00	N2-4-200(250)-S1(-S15)-DC	Incl. cooling unit	NZM2-4-XKVI1P-K	168596	
501 (40°C) 418 (65°C)	IP00	N3-4-...-S1(S15)-DC		NZM3-4-XKVI1P	168597	
534 (40°C) 451 (65°C)	IP00	N3-4-...-S1(S15)-DC	Incl. cooling unit	NZM3-4-XKVI1P-K	168598	
1260 (40°C) 1138 (65°C)	IP00	N4-4-(800)(1000)(1250)(1400)-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA		NZM4-4-XKVI1P	180019	
1552 (40°C) 1448 (65°C)	IP00	N4-4-...-S1(-S15)-DC N4-4-...-S1(-S15)-PV-NA	Incl. cooling unit	NZM4-4-XKV1P-K	179331	

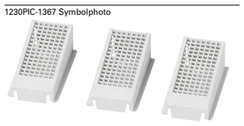
	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Box terminal Standard equipment													
1230PIC-721 Symbolphoto 		3 pole	NZM1, PN1, N(S)1	Copper cable	1 x 10 - 70 2 x 6 - 25 1)	1 x 12 - 2/0	≧ 2 x 9 x 0.8	-	NZM1-XKC	260015	1 set	Standard connection with all NZM1, PN1 and N(S)1 switches. Conversion kit for circuit breaker with screw terminal. Contains parts for a 3 or 4 pole switch side. Fitted within the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
		4 pole	NZM1-4, PN1-4, N1-4	Copper cable	1 x 10 - 70 2 x 6 - 25 1)	1 x 12 - 2/0	≧ 2 x 9 x 0.8	-	NZM1-4-XKC	267075	1 set		-
Screw terminals													
sg08415 Symbolphoto 		1 pole	NZM1-1	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 1)	1 x 12 - 2/0	-	≧ 12 x 5	NZM1-1-XKS	152620	1 set	Contains parts for a terminal located at top or bottom for 1 pole circuit breaker. Flush mounting outside the switch housing. Cover NZM1(-4)-XKSA must be fitted (included as standard).	-
1230PIC-677 Symbolphoto 		3 pole	NZM1, PN1, N(S)1	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 1)	1 x 12 - 2/0	-	≧ 12 x 5	NZM1-XKS	260019	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Flush mounting outside the switch housing. Cover NZM1(-4)-XKSA must be fitted (included as standard).	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
		4 pole	NZM1-4, PN1-4, N1-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 1)	1 x 12 - 2/0	-	≧ 12 x 5	NZM1-4-XKS	266725	1 set		-

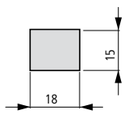
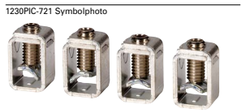
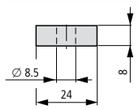
Notes: 1) Up to 95 mm² can be connected depending on make of cable

	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
	Tunnel terminal													
sg08115 Symbolphoto 		3 pole	NZM1, PN1, N(S)1		6 x 2.5 - 16	6 x 14 - 6	-	-	NZM1-XKAM	144112	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 14 AWG) copper conductor. Flush mounting outside the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM1(-4)-XKSA must be fitted (included as standard).	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
1230PIC-683 Symbolphoto			NZM1, PN1, N(S)1		1 x 16 - 95	1 x 6 - 3/0	-	-	NZM1-XKA	266730				
sg08015 Symbolphoto 		4 pole	NZM1-4, PN1-4, N1-4		6 x 2.5 - 16	6 x 14 - 6	- -	- -	NZM1-4-XKAM	144114	1 set		-	
1230PIC-676 Symbolphoto			NZM1-4, PN1-4, N1-4		1 x 16 - 95	1 x 6 - 3/0	-	-	NZM1-4-XKA	266731				
	Rear terminal bolts Not UL/CSA approved													
1230PIC-1428 Symbolphoto	–	3 pole	NZM1, PN1, N1	Copper cable lugs Aluminium cable lugs	- -	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 1)	-	min. 12 x 5 max. 16 x 5	NZM1-XKR	266734	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers.	-	
1230PIC-898 Symbolphoto	–	4 pole	NZM1-4, PN1-4, N1-4	Copper cable lugs Aluminium cable lugs	- -	1 x 10 - 70 2 x 6 - 25 1 x 10 - 35 2 x 10 - 35 1)	-	min. 12 x 5 max. 16 x 5	NZM1-4-XKR	266737	1 set		-	
	Control cable terminals													
1230PIC-729 Symbolphoto 	-	3 and 4 pole	NZM1(-4), PN1(-4), N(S)1(-4)	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-	NZM1-XSTS	260150	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuit breakers. Included as standard with tunnel terminal. Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with a finger. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E140305 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
1230PIC-747 Symbolphoto 	-	3 and 4 pole	NZM1(-4), PN1(-4), N(S)1(-4)	Box terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-	NZM-XSTK	266739				

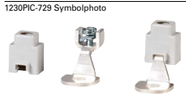
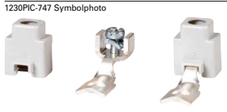
Notes: 1) Up to 95 mm² can be connected depending on make of cable

	Max. cable connection area	Number of poles	For use with	Connection	Terminal capacity mm²	AWG/kcmil	Part no. / Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
	Terminal covers knockout Not UL/CSA approved. For box terminal										
1230PIC-176 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-	NZM1-XKSFA NZM1-XKSFA-GVP	100780 112632	1 Off 50 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Enhanced contact protection (simplified finger protection). Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
1230PIC-678 Symbolphoto 	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-	NZM1-4-XKSFA	100781	1 Off		-
	Cover										
wa_sg02316 Symbolphoto	-	1 pole	NZM1-1	-	-	-	NZM1-1-XKSA	152549	1 Off	Contains parts for a terminal located at top or bottom for 1 pole switches. Contact protection against direct contact where cable lugs, bars or tunnel terminals are used. When using insulated conductor material to degree of protection IP1X.	-
1230PIC-686 Symbolphoto	-	3 pole	NZM1, PN1, N1	-	-	-	NZM1-XKSA	260021	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection against direct contact where cable lugs, bars or tunnel terminals are used. Contained in the set with tunnel terminals and screw terminals. When using insulated conductor material to degree of protection IP1X	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
1230PIC-686 Symbolphoto	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-	NZM1-4-XKSA	266741	1 Off		-
	Phase isolators										
sg09115 Symbolphoto 	-	3 pole	NZM1, PN1, N(S)1	-	-	-	NZM1-XKP	119862	1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Can not be combined with connection on rear NZM1/2(-4)-XKR. Insulation protection up to a rated operating voltage U_e von 415V AC when minimum distances are not maintained.	UL/CSA certification not required
1230PIC-1014 Symbolphoto	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-	NZM1-4-XKP	119863	1 set		-

	Max. cable connection area	Number of poles	For use with	Connection	Terminal capacity mm²	AWG/kcmil	Part no. / Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
	IP2X Protection against contact with finger For box terminal										
1230PIC-1360 Symbolphoto	-	1 pole	NZM1-1	-	-	-	NZM1-1-XIPK	152551	1 set	Contains parts for a terminal located at top or bottom for 1 pole switches. Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
1230PIC-1368 Symbolphoto	-	3 pole	NZM1, PN1, N1	-	-	-	NZM1-XIPK	266744	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. Cannot be combined with NZM-XSTK control circuit terminal.	UL/CSA certification not required
1230PIC-675 Symbolphoto	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-	NZM1-4-XIPK	266745	1 set		-
	IP2X Protection against contact with finger For covers NZM1(-4)-XKSA or NZM1…(C)NA, N(S)1…NA										
1230PIC-1359 Symbolphoto	-	1 pole	NZM1-1	-	-	-	NZM1-1-XIPA	152550	1 set	Contains parts for a terminal located at top or bottom for 1 pole switches. Enhanced contact protection to IP2X.	UL/CSA certification not required
1230PIC-1367 Symbolphoto 	-	3 pole	NZM1, PN1, N1	-	-	-	NZM1-XIPA	266748	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection to IP2X.	UL/CSA certification not required
1230PIC-720 Symbolphoto	-	4 pole	NZM1-4, PN1-4, N1-4	-	-	-	NZM1-4-XIPA	266749	1 set		-

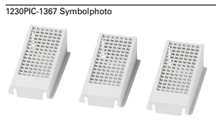
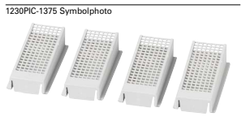
	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
Box terminal																
1230PIC-725 Symbolphoto		3 pole	NZM2, PN2, N(S)2 ≤ 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-	+NZM2-160-XKCO +NZM2-160-XKCU	262218 262223	NZM2-160-XKC -	262240	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Fitted within the switch housing. O = for fitting at the top U = for fitting at the bottom U_e ≧ 525 V AC: Use NZM2(-4)-XKSA cover. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1432-01 UL Listed, CSA certified Refer to main component information
			NZM2, PN2, N(S)2 > 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-	+NZM2-250-XKCO +NZM2-250-XKCU	262242 262243	NZM2-250-XKC -	262244	1 set			
1230PIC-721 Symbolphoto 		4 pole	NZM2-4, PN2-4, N2-4 ≤ 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-	+NZM2-4-160-XKCO +NZM2-4-160-XKCU	266751 266753	NZM2-4-160-XKC -	266755				
			NZM2-4, PN2-4, N2-4 > 160 A	Copper cable	1 x 10 - 185 2 x 4 - 70	1 x 12 - 350	≧ 2 x 9 x 0.8	-	+NZM2-4-250-XKCO +NZM2-4-250-XKCU	266752 266754	NZM2-4-250-XKC -	266756				
Screw terminals Standard equipment																
1230PIC-731 Symbolphoto		3 pole	NZM2, PN2, N(S)2	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	1 x 12 - 350	≧ 2 x 16 x 0.8	≧ 16 x 5	-		NZM2-XKS	260030	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Standard connection with all NZM2, PN2 and N2 circuit breakers. Conversion kit for circuit breaker with box terminal. Use special cable lugs narrow version → 059775 Fitted within the switch housing.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1432-01 UL Listed, CSA certified Refer to main component information
1230PIC-725 Symbolphoto		4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	1 x 12 - 350	≧ 2 x 16 x 0.8	≧ 16 x 5	-		NZM2-4-XKS	266750	1 set	If a bar is used, insulation (400 mm) e.g sleeving and a NZM2(-4)-XKSA cover are required. U_e ≧ 525 V AC: With all other connection materials, e.g. cables and strips, use cover NZM2(-4)-XKSA.		

Compact circuit breakers, switch disconnectors 4.2
Terminals
NZM2

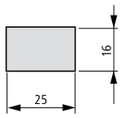
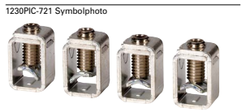
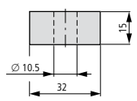
	Max. cable connection area	Number of poles	For use with	Terminal capacity Cable Cable lugs	Terminal capacity Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
Tunnel terminal														
sg07815 Symbolphoto		3 pole	NZM2, PN2, N(S)2	Copper cable Aluminium cable plugs	6 x 2.5 - 35	6 x 14 - 2	-	-	NZM2-XKAM	144113	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor. Flush mounting outside the switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules Cover NZM2(-4)-XKSA must be fitted (included as standard).	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
1230PIC-683 Symbolphoto			NZM2, PN2, N(S)2	Copper cable Aluminium cable	1 x 16 - 185 Up to 240 mm² can be connected depending on the cable manufacturer	1 x 6 - 350 1 x 16 - 185	-	-	NZM2-XKA	271457				
sg07915 Symbolphoto		4 pole		Copper cable Aluminium cable	6 x 2.5 - 35	6 x 14 - 2	- -	- -	NZM2-4-XKAM	144115	1 set		-	
1230PIC-676 Symbolphoto			NZM2-4, PN2-4, N2-4	Copper cable Aluminium cable	1 x 16 - 185 Up to 240 mm² can be connected depending on the cable manufacturer	1 x 6 - 350	-	-	NZM2-4-XKA	271458				
Rear terminal bolts Not UL/CSA approved When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.														
1230PIC-1378 Symbolphoto	-	3 pole	NZM2, PN2, N(S)2	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	-	≧ 2 x 16 x 0.8 ≦ 6 x 24 x 0.5	≧ 16 x 5 ≦ 20 x 5	+NZM2-XKRO +NZM2-XKRU	266763 266764	NZM2-XKR -	266765	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. O = for fitting at the top U = for fitting at the bottom	-
1230PIC-1376 Symbolphoto		4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs Aluminium cable lugs	1 x 10 - 185 2 x 4 - 70 1 x 10 - 50 2 x 10 - 50	-	≧ 2 x 16 x 0.8 ≦ 6 x 24 x 0.5	≧ 16 x 5 ≦ 20 x 5	+NZM2-4-XKRO +NZM2-4-XKRU	266766 266767	NZM2-4-XKR -	266768			
Control cable terminals														
1230PIC-729 Symbolphoto 	3 and 4 pole	NZM2(-4), PN2(-4), N(S)2(-4)	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-			NZM2-XSTS	260156	1 set	Contains parts for two terminal locations located at top or bottom for 3 or 4 pole switches. Included as standard with tunnel terminal Degree of protection IP1X NZM-XSTK cannot be combined with IP2X protection against contact with a finger and NZM1(-4)-XIPK. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E140305 DIHS 022086 1437-01 UL Listed, CSA certified Refer to main component information
1230PIC-747 Symbolphoto 	3 and 4 pole	NZM2(-4), PN2(-4), N(S)2(-4)	Box terminal	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-			NZM-XSTK	266739	1 set			

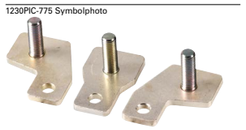
	Number of poles	For use with	Terminal capacity: Connection	Terminal capacity mm²	AWG/kcmil	Part no. suffix: Article no. for ordering with basic device	Article no.
Cable lug cover							
1230PIC-694 Symbolphoto	3 pole	NZM2, PN2, N(S)2	Copper cable lugs Aluminium cable lugs	1 x 10-185 2 x 4-70 1 x 10-50 2 x 10-50	-	-	
1230PIC-688 Symbolphoto	4 pole	NZM2-4, PN2-4, N2-4	Copper cable lugs Aluminium cable lugs	1 x 10-185 2 x 4-70 1 x 10-50 2 x 10-50	-	-	
Cover							
1230PIC-686 Symbolphoto	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
wa_sg07018 Symbolphoto	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
Phase isolators							
sg08915 Symbolphoto	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
sg09015 Symbolphoto	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
Terminal covers, knockout							
1230PIC-695 Symbolphoto	3 pole	NZM2, PN2, N(S)2	-	-	-	+NZM2-XKSFAO +NZM2-XKSFAU	108269 108270
1230PIC-689 Symbolphoto	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	+NZM2-4-XKSFAO +NZM2-4-XKSFAU	108271 108272

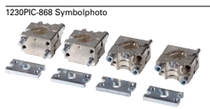
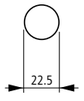
Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Cable lug cover				
NZM2-XKSAE	119868	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection where cable lugs are used on screw terminals. When using insulated conductor material, degree of protection IP2X.	UL/CSA certification not required
NZM2-4-XKSAE	119870	1 set		-
Cover				
NZM2-XKSA	260038	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Contact protection where cable lugs, bars or tunnel terminals are used. Included in set with tunnel terminals. When using insulated conductor material, degree of protection IP1X	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
NZM2-4-XKSA	266770	1 Off		-
Phase isolators				
NZM2-XKP	119864	1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Can not be combined with connection on rear NZM1/2(-4)-XKR. Insulation protection up to a rated operating voltage U_e of 415V AC when minimum distances are not maintained.	UL/CSA certification not required
NZM2-4-XKP	119865	1 set		-
Terminal covers, knockout				
NZM2-XKSFA -	104640	1 set	Contains parts for a terminal located at top or bottom for 3 pole switches. Enhanced contact protection (simplified finger protection).	UL/CSA certification not required
NZM2-4-XKSFA -	104641	1 Off		-

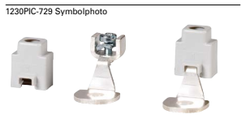
	Number of poles	For use with	Terminal capacity Connection	Terminal capacity mm²	AWG/kcmil	Part no. suffix Article no. for ordering with basic device	Article no.
	IP2X Protection against contact with finger For box terminal						
1230PIC-1377 Symbolphoto	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
1230PIC-675 Symbolphoto	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
	For covers NZM2(-4)-XKSA or NZM2(-4) or NZM2…(C)NA and N(S)2…NA						
1230PIC-1367 Symbolphoto 	3 pole	NZM2, PN2, N(S)2	-	-	-	-	
1230PIC-1375 Symbolphoto 	4 pole	NZM2-4, PN2-4, N2-4	-	-	-	-	
	Copper cable lug Not UL/CSA approved When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.						
1230PIC-693 Symbolphoto	3 and 4 pole	NZM2(-4), PN2(-4), N2(-4)	-	150 mm²	-	-	
			-	120 mm²	-	-	
			-	95 mm²	-	-	
			-	185 mm²	-	-	
	Mounting adapter plate						
1230PIC-316 Symbolphoto	3 pole	NZM2 PN2 N2	-	-	-	-	

Part no. Article no. when ordered separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM2-XIPK	266773	1 set	Contains parts for a terminal located at top or bottom for 3 switches. Enhanced contact protection to IP2X. Protection on grasping terminal chamber when connecting cables in box terminals. With two conductors maximum cross-section 25 mm² or AWG4. Can not be combined with control cable terminal NZM-XSTK.	UL/CSA certification not required
NZM2-4-XIPK	266774	1 set		-
NZM2-XIPA	266777	1 set	Contains parts for a terminal located at top or bottom for 3 switches. Enhanced contact protection to IP2X. When fitting to NZM2-...-(C)NA or NZM…-NA: With 2 conductors maximum cross-section 25 mm² or AWG4.	UL/CSA certification not required
NZM2-4-XIPA	266778	1 set		-
KS150-NZM7	059777	3 Off	In order to crimp cable lugs when using stranded conductors, e.g., VDE 0295 Class 2 and rounded stranded sector-shaped conductors, you will need a Klauke K22, HK60/22, or EK22 crimping tool with the following crimping dies: R22/95 for 95 mm² R22/120 for 120 mm² R22/150 for 150 mm² R22/185 for 185 mm² R22/240 for 240 mm² R22/300 for 300 mm² Flexible conductors are adequate to a limited extent. They must be indent-crimped with a Klauke series 13 or series 25 crimping die.	-
KS120-NZM7	059776			
KS95-NZM7	059775			
NZM2-XKS185	260032			
NZM2-XAP7	119381	1 set	The replacement device can be positioned identically either with the connection side or the actuation shaft. NZM7 door coupling rotary handle can continue to be used if there is a minimum dimension of 213 mm between the mounting plate and the inside of the door. Otherwise, use new handle NZM2-XTVD…-0 with the new shaft.	UL/CSA certification not required

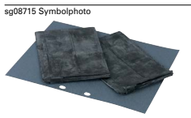
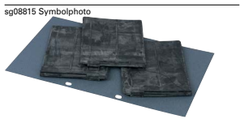
	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
	Box terminal															
1230PIC-725 Symbolphoto		3 pole	NZM3(-4), PN3(-4), N(S)3(-4)	max. 500 400 UL/ CSA	Copper cable Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	min. 6 x 16 x 0.8 max. 10 x 24 x 1.0 oder max. 11 x 21 x 1	-	+NZM3-XKCO	262246	-		1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Fitted within the switch housing O = for fitting at the top U = for fitting at the bottom U_e ≧ 525 V AC: Use NZM3(-4)-XKSA cover. Use ferrules with flexible and highly flexible conductors. Observe limited cable cross-section through sleeve.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
										+NZM3-XKCU	262245	-				
				630	Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	10 x 24 x 1.0 + 5 x 24 x 1.0 oder (2 x) 8 x 24 x 1.0	-	-		NZM3-XKC	260042			
1230PIC-721 Symbolphoto 		4 pole	NZM3(-4), PN3(-4), N(S)3(-4)	max. 500 400 UL/ CSA	Copper cable Copper cable	1 x 35 - 240 2 x 16 - 120	1 x 2 - 350	min. 6 x 16 x 0.8 max. 10 x 24 x 1.0 oder max. 11 x 21 x 1	-	+NZM3-4-XKCU	266782	-		1 set		-
				630	Copper cable			10 x 24 x 1.0 + 5 x 24 x 1.0 oder (2 x) 8 x 24 x 1.0		+NZM3-4-XKCO	266781	NZM3-4-XKC	266783			
	Screw connection Standard															
1230PIC-731 Symbolphoto		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	1 x 16 - 300 2 x 16 - 240	1 x 4 - 350 2 x 350	10 x 32 x 1.0 + 5 x 32 x 130	30 x 10 + 30 x 5	-		NZM3-XKS	260039	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Standard connection with all NZM3, PN3 and N3 circuit breakers. Conversion kit for circuit breaker with box terminal. Use special cable lugs narrow version, → 059775 Fitted within the switch housing. If a bar is used, insulation (400 mm) heat-shrink tubing and a cover NZM3(-4)-XKSA are required. U_e ≧ 525 V AC: For all other connection types use cover NZM3(-4)-XKSA.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
				max. 400	Aluminium cable	1 x 10 - 120 2 x 10 - 120	1 x 4 - 350 2 x 350									
1230PIC-731 Symbolphoto		4 pole	NZM3-4, PN3-4, N(S)3-4	630	Copper cable lugs	1 x 16 - 300 2 x 16 - 240	1 x 4 - 350 2 x 350	10 x 32 x 1.0 + 5 x 32 x 1.0	30 x 10 + 30 x 5	-		NZM3-4-XKS	266780	1 set		-
				max. 400	Aluminium cable lugs	1 x 10 - 120 2 x 10 - 120	1 x 4 - 350 2 x 350									

	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
	Connection width extension One hole, for screws or terminals																
1230PIC-773 Symbolphoto		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	2 x 300	2 x 500	2 x 10 x 50 x 1.0	(2 x) 10 x 50	-		NZM3-XKV70	100514	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Central drilling for e.g. up to 2 cable lugs per phase. For fitting to switches with screw terminal. Phase isolator and insulation plate are included as standard. Distance between pole centres with NZM3(-4)-XKV70: 70 mm. Hole for control wire exists. Connection terminals NZM3(-4)-XK300 and NZM3(-4)-XK22X21 can be installed	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E140305 DIHS 022086 1432-01 UL Listed, CSA certified
1230PIC-772 Symbolphoto		4 pole	NZM3-4, PN3-4, N3-4	630	Copper cable lugs	2 x 300	2 x 500	2 x 10 x 50 x 1.0	(2 x) 10 x 50	-		NZM3-4-XKV70	100515	1 set		-	
1230PIC-774 Symbolphoto		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	NZM3-XKV70-2: 4 x 35 - 185 NZM3-XKV70-2 + NZM4-XKA: 4 x 50 - 240	NZM3-XKV70-2: 2 x 350 NZM3-XKV70-2 + NZM4-XKA: 4 x 500	NZM3-XKV70-2 + NZM4-XKB: ≧ 6 x 16 - 0.8 ≦ (2 x) 10 x 32 x 1	(2 x) 10 x 50	-		NZM3-XKV70-2	119860	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Double hole fitting for up to four 185 mm² cable lugs, 50 mm bar or large flat cable terminal NZM4-XKB or large tunnel terminal NZM4-XKA. For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied.	Product Standards NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking Request filed for UL and CSA Refer to main component information
1230PIC-774 Symbolphoto		4 pole	NZM3-4, PN3-4, N(S)3-4	630	Copper cable lugs	2 x 300	2 x 500	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50	-		NZM3-4-XKV70-2	132673	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Double hole fitting for up to four 185 mm² cable lugs, 50 mm bar or large flat cable terminal NZM4-XKB or large tunnel terminal NZM4-XKA. For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied.	-	
1230PIC-775 Symbolphoto 		3 pole	NZM3, PN3, N(S)3	630	Copper cable lugs	2 x 95 -300	2 x 500	(2x) 10 x 32 x 1.0	(2 x) 10 x 40	-		NZM3-XKV70KB	112884	1 set	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Threaded stud for cable lugs up to 2 × 300mm². For fitting to switches with screw terminal. Phase isolator, insulation plate and 2 control circuit terminals supplied	Product Standards NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking Request filed for UL and CSA Refer to main component information

	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
	Terminals for connection width extension															
1230PIC-1432 Symbolphoto		3 pole	NZM3, PN3, N(S)3	max. 500	Copper cable	1 x 120 - 300	-	-	-	-		NZM3-XK300	100782	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Only in combination with connection width extension NZM3(-4)-XKV70. Use ferrules with flexible and highly flexible conductors. With control cable terminal for 1 x 0.75 - 2.5 mm² or 2 x 0.75 - 1.5 mm² copper conductor.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
1230PIC-868 Symbolphoto 		4 pole	NZM3-4, PN3-4, N3-4	max. 500	Copper cable	1 x 120 - 300	-	-	-	-		NZM3-4-XK300	100783	1 set		-
1230PIC-1431 Symbolphoto		3 pole	NZM3, PN3, N(S)3	630	-	-	-	(2 ×) 11 x 21 x 1.0	-	-		NZM3-XK22X21	100784	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Only in combination with connection width extension NZM3(-4)-XKV70. Use ferrules with flexible and highly flexible conductors. With control cable terminal for 1 x 0.75 - 2.5 mm² or 2 x 0.75 - 1.5 mm² copper conductor.	Not UL/CSA approved
1230PIC-867 Symbolphoto		4 pole	NZM3-4, PN3-4, N3-4	630	-	-	-	(2 ×) 11 x 21 x 1.0	-	-		NZM3-4-XK22X21	100785	1 set		Not UL/CSA approved
	Tunnel terminal															
1230PIC-683 Symbolphoto		3 pole	NZM3, PN3, N(S)3	max. 350	Copper cable Aluminium cable	1 x 16 - 185	1 x 6 - 350	-	-	-		NZM3-XKA1	271459	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. With control cable terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor.	-
1230PIC-683 Symbolphoto		4 pole	NZM3-4, PN3-4, N3-4	max. 350	Copper cable Aluminium cable	1 x 16 - 185	1 x 6 - 350	-	-	-		NZM3-4-XKA1	271460	1 set	Fitting outside switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM3(-4)-XKSA must be fitted (included as standard).	-
1230PIC-1433 Symbolphoto		3 pole	NZM3, PN3, N(S)3	max. 630	Copper cable Aluminium cable	1 x 50 - 240 2 x 50 - 240	1 x 0 - 500 2 x 0 - 500	-	-	-		NZM3-XKA2	271461	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. With control cable terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper conductor. Fitting outside switch housing. Use ferrules with flexible and highly flexible conductors. Max. cross section shown can only be connected when flexible and without ferrules. Cover NZM3(-4)-XKSA must be fitted (included as standard).	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
1230PIC-771 Symbolphoto		4 pole	NZM3-4, PN3-4, N3-4	max. 630	Copper cable Aluminium cable	1 x 50 - 240 2 x 50 - 240	1 x 0 - 500 2 x 0 - 500	-	-	-		NZM3-4-XKA2	271462	1 set		-

	Max. cable connection area	Number of poles	For use with	Rated current I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
	Rear terminal bolts								
1230PIC-1385 Symbolphoto	-	3 pole	NZM3, PN3, N3	max. 630 max. 500	Copper cable lugs Aluminium cable lugs	1 x 16 - 240 2 x 16 - 240 1 x 10 - 120 2 x 10 - 120	-	min. 6 x 16 x 0.8 max. 10 x 32 x 1.0	min. 20 x 5 max. 30 – 10
1230PIC-1380 Symbolphoto	-	4 pole	NZM3-4, PN3-4, N3-4	max. 630 max. 500	Copper cable lugs Aluminium cable lugs	1 x 16 - 240 2 x 16 - 240 1 x 10 - 120 2 x 10 - 120	-	min. 6 x 16 x 0.8 max. 10 x 32 x 1.0	min. 20 x 5 max. 30 – 10
	Control cable terminals								
1230PIC-729 Symbolphoto 	-	3 and 4 pole	NZM3, PN3, N(S)3	-	Screw terminals	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-
1230PIC-747 Symbolphoto	-	3 and 4 pole	NZM3-4, PN3, N(S)3-4	-	Box terminal	1 x 0.75 - 2.5 2 x 0.75 - 1.5	1 x 18 - 14 2 x 18 - 16	-	-

Part no. suffix Article no. for ordering with basic device	Article no.	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
+NZM3-XKRO +NZM3-XKRU	266790 266791	NZM3-XKR -	266792	1 set	Part no. suffix and part no.contain parts for a circuit breaker side at top or bottom for 3 or 4 pole switches. O = for fitting at the top U = for fitting at the bottom	Not UL/CSA approved
+NZM3-4-XKRO +NZM3-4-XKRU	266793 266794	NZM3-4-XKR -	266795	1 set		Not UL/CSA approved
-		NZM3/4-XSTS	266797	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuit breakers. Included as standard with tunnel terminal. Degree of protection IP1X Height or thickness of connections NZM-XSTS = 2 mm	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E140305 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1437-01 NA Certification: UL Listed, CSA certified Suitable for: Refer to main component information
-		NZM-XSTK	266739	1 set	Contains for two terminal locations located at top or bottom for 3 or 4 pole circuitb-reakers Included as standard with tunnel terminal. Degree of protection IP1X NZM-XSTK cannot be combined with NZM1(-4)-XIPK IP2X protection against contact with finger. Height or thickness of connections: NZM-XSTK = 2 mm NZM-XSTS = 2 mm	

	Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Cable lug cover								
1230PIC-694 Symbolphoto	-	3 pole	NZM3, PN3, N(S)3	NZM3-XKSAE	119869	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Contact protection where cable lugs are used on screw terminals. When using insulated conductor material, degree of protection IP2X.	UL/CSA certification not required
1230PIC-688 Symbolphoto	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSAE	119871	1 set		-
Cover								
1230PIC-1352 Symbolphoto	-	3 pole	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XKSA	260045	1 Off	Contains parts for a terminal located at top or bottom for 3 pole switches. Insulation/protection against direct contact where cable lugs, bars or tunnel terminals are used. Included in set with tunnel terminals. When using insulated conductor material to degree of protection IP1X.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
1230PIC-1353 Symbolphoto	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSA	266801	1 Off		-
Phase isolators								
sg08715 Symbolphoto 	-	3 pole	NZM3-4, PN3-4, N(S)3-4	NZM3-XKP	100512	1 set	Contains parts, including insulating plate for mounting plate, for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Included with the connection width extension. Cannot be combined with the NZM3(-4)-XKA tunnel terminal, NZM3(-4)-XKR connection on rear. Insulation protection where cable lugs, bars, or flat conductor are used.	Product Standards UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL Listed, CSA certified Suitable for Refer to main component information
sg08815 Symbolphoto 	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKP	100513	1 set		-

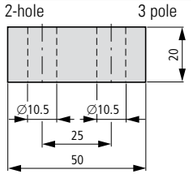
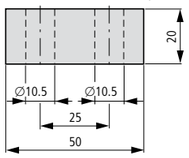
		Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.	Part no. suffix Article no. for ordering with basic device	Article no.	Std. pack	Notes	Information relevant for export to North America
	Terminal covers, knockout										
1230PIC-695 Symbolphoto	-	-	3 pole	NZM3-4, PN3-4, N(S)3-4	NZM3-XKSFA	104642	+NZM3-XKSFA0 +NZM3-XKSFAU	108273 108274	1 Off	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection (simplified finger protection).	UL/CSA certification not required
1230PIC-689 Symbolphoto	-	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XKSFA	104643	+NZM3-4-XKSFA0 +NZM3-4-XKSFAU	108275 108276	1 Off		-
	Large cover for connection width extension										
1230PIC-699 Symbolphoto	-	-	3 pole	NZM3, PN3, N3 + NZM3-XKV70(-2)	NZM3-XKSAV	119858	-		1 Off	Contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation protection/protection against direct contact for connection of cable lugs or bars to connection width extension. Can also be used for connection width extension NZM3-XKV70 or NZM3-XKV70-2 with terminals NZM3-XK300 or NZM3-XK22x21 or NZM4-XKA. Cannot be combined with connection width NZM3-XKV70KB. When using insulated conductor material, degree of protection IP2X.	-
1230PIC-696 Symbolphoto			4 pole	NZM3-4, PN3-4, N3-4 + NZM3-4-XKV70	NZM3-4-XKSAV	132675	-		1 Off		-
	IP2X Protection against contact with finger For box terminal										
1230PIC-1384 Symbolphoto	-	-	3 pole	NZM3, PN3, N3	NZM3-XIPK	266804	-		1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Enhanced contact protection to IP2X. Protection when reaching into the cable connection area with the connection of cables in the box terminal. With 2 conductors max. cross section 70mm².	UL/CSA certification not required
1230PIC-675 Symbolphoto	-	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XIPK	266805	-		1 set	Cannot be combined with NZM-XSTK control circuit terminal.	-
	For covers NZM3(-4)-XKSA or NZM3…(C)NA and N(S)3…NA										
wa_sg07118 Symbolphoto	-	-	3 pole	NZM3, PN3, N(S)3	NZM3-XIPA	266808	-		1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Enhanced contact protection to IP2X. When fitting to NZM3...-(C)NA or N3...-NA: with 2 conductors max. cross section 70 mm².	UL/CSA certification not required
1230PIC-1379 Symbolphoto	-	-	4 pole	NZM3-4, PN3-4, N3-4	NZM3-4-XIPA	266809	-		1 set		-

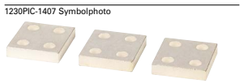
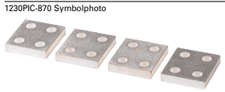
Compact circuit breakers, switch disconnectors 4.3
Terminals
NZM3

	Max. cable connection area	Number of poles	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Copper cable lug Not UL/CSA approved When using cable lugs without NZM3(-4)-XKSA cover, they must be insulated.								
1230PIC-693 Symbolphoto 185 mm²	-	3 and 4 pole	NZM3(-4), PN3(-4), N3(-4)	NZM3-XKS185	260040	3 Off	In order to crimp cable lugs when using stranded conductors, e.g., VDE 0295 Class 2 and rounded stranded sector-shaped conductors, you will need a Klauke K22, HK60/22, or EK22 crimping tool with the following crimping dies: • R22/95 for 95 mm² • R22/120 for 120 mm² • R22/150 for 150 mm² • R22/185 for 185 mm² • R22/240 for 240 mm² • R22/300 for 300 mm² Flexible conductors are adequate to a limited extent. They must be indent-crimped with a Klauke series 13 or series 25 crimping die.	-
240 mm²				NZM3-XKS240	260041			
300 mm²			NZM3(-4), PN3(-4), N3(-4) NZM4(-4), N(-4)	NZM3-XKS300	153186			
Mounting adapter plate								
1230PIC-317 Symbolphoto -	-	3 pole	NZM3 PN3 N3	NZM3-XAP10	119382	1 set	The replacement device can be positioned identically either with the connection side or the actuation shaft. The NZM10 door coupling rotary handle can continue to be used if the shaft has a thickness of 12 mm. Otherwise, use new handle NZM3 with the new shaft.	UL/CSA certification not required

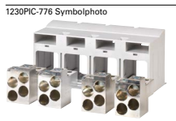
Compact circuit breakers, switch disconnectors 4.4
Terminals
NZM4

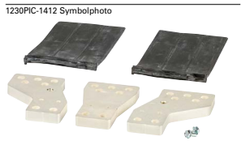
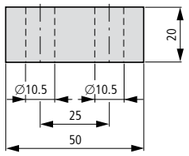
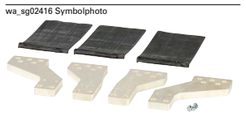
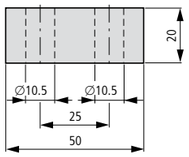
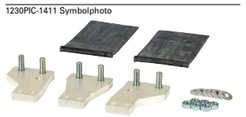
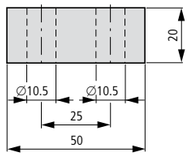
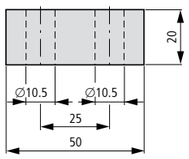
1230PIC-731 Symbolphoto

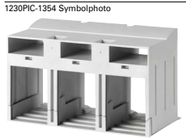
Space requirement	Number of poles	For use with	Rated current[1)] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Screw terminals													
Threaded stud standard equipment													
Screws													
2-hole 	3 pole	NZM4, N(S)4	max. 1600	Copper cable-lugs	1 x 120 - 185 4 x 50 - 185	1 x 250 - 350 4 x 0 - 350	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10	NZM4-XKS	127736	1 set	Double hole fitting with M10 threaded stud at 25 mm spacing. Use special cable lug narrow version. M10x50 socket cap screw + M10x40 socket cap screw + self locking nut.	UL/CSA certification not required
2-hole 	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	1 x 120 - 185 4 x 50 - 185	1 x 250 - 350 4 x 0 - 350	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10	NZM4-4-XKS	127737	1 set		-

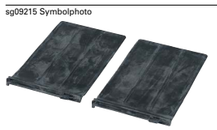
	Space requirement	Number of poles	For use with	Rated current[1)] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm
	Module plate								
1230PIC-744 Symbolphoto	1-hole	3 pole	NZM4, N(S)4	max. 1250	Copper cable-lugs	1 x 120 - 300 2 x 95 - 300	1 x 250 - 600 2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-742 Symbolphoto	1-hole	4 pole	NZM4-4, N4-4	max. 1250	Copper cable-lugs	1 x 120 - 300 2 x 95 - 300	1 x 250 - 600 2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-1407 Symbolphoto 	2-hole	3 pole	NZM4, N(S)4	max. 1400	Copper cable-lugs	2 x 95 - 185 4 x 35 - 185	2 x 000 - 350 4 x 2 - 350	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50 x 1.0
1230PIC-870 Symbolphoto 	2-hole	4 pole	NZM4-4, N4-4	max. 1400	Copper cable-lugs	2 x 95 - 185 4 x 35 - 185	2 x 000 - 350 4 x 2 - 350	(2 x) 10 x 50 x 1.0	(2 x) 10 x 50 x 1.0
1230PIC-1408 Symbolphoto	2-hole	3 pole	NZM4, N(S)4	max. 1250	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
sg08515 Symbolphoto	2-hole	4 pole	NZM4-4, N4-4	max. 1250	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-1408 Symbolphoto	2-hole	3 pole	NZM4, N(S)4	max. 1600	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10
1230PIC-871 Symbolphoto	2-hole	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	2 x 95 - 300	2 x 000 - 600	(2 x) 10 x 40 x 1.0 (2 x) 10 x 50 x 1.0	(2 x) 40 x 10 (2 x) 50 x 10

Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
NZM4-XKM1	266814	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. For M10 screws. Can be enlarged for M12 screws. Use special cable lug narrow version. Can be fitted to circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E31593 DIHS 22086 1432-01 UL listed, CSA certified Refer to main component information
NZM4-4-XKM1	266815	1 set		-	
NZM4-XKM2	266820	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. For M10 screws. Can be enlarged for M12 screws. Use special cable lug narrow version. Can be fitted to circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E31593 DIHS 22086 1432-01 UL listed, CSA certified Refer to main component information
NZM4-4-XKM2	266821	1 set		-	
NZM4-XKM2S-1250	284471	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E31593 DIHS 22086 1432-01 UL listed, CSA certified Refer to main component information
NZM4-4-XKM2S-1250	284472	1 set		-	
NZM4-XKM2S-1600	284473	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E31593 DIHS 22086 1432-01 UL listed, CSA certified Refer to main component information
NZM4-4-XKM2S-1600	284474	1 set		-	

	Number of poles	For use with	Rated current[1] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
	Flat cable terminal													
1230PIC-700 Symbolphoto	3 pole	NZM4, N(S)4	max. 1100	-	-	-	min. 6 x 16 x 0.8 max. (2 x) 10 x 32 x 1.0	-	NZM4-XKB	266829	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Conversion kit for circuit breaker with screw terminal. Insulation using cover NZM4(-4)-XKSA or phase divider NZM4(-4)-XKP necessary. When the circuit breaker is installed on a conductive mounting plate, cover NZM4(-4)-XKSA must be used	Product Standards NA Certification	CSA-C22.2 No. 5-09; IEC60947, CE marking Request filed for CSA
	4 pole	NZM4-4, N4-4	max. 1100	-	-	-	min. 6 x 16 x 0.8 max. (2 x) 10 x 32 x 1.0	-	NZM4-4-XKB	266831	1 set	With control circuit terminal for 1 x 0.75 - 2.5 mm² or 2x 0.75 - 1.5 mm² copper conductors as standard.	-	
	Tunnel terminal													
1230PIC-1438 Symbolphoto	3 pole	NZM4, N(S)4	max. 1400	Copper cable Aluminium cable	1 x 50 - 240 4 x 50 - 240	1 x 0 - 500 4 x 0 - 500	-	-	NZM4-XKA	266836	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. With control circuit terminal for 1 x 0.75 - 2.5 mm² (18 - 14 AWG) or 2 x 0.75 - 1.5 mm² (18 - 16 AWG) copper cable as standard. Can be fitted to circuit breaker with screw terminal. Use ferrules with flexible and highly flexible conductors. Cover NZM4(-4)-XKSA must be fitted (included as standard).	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E31593 DIHS 22086 1432-01 UL listed, CSA certified Refer to main component information
1230PIC-776 Symbolphoto 	4 pole	NZM4-4, N4-4	max. 1400	Copper cable Aluminium cable	1 x 50 - 240 4 x 50 - 240	1 x 0 - 500 4 x 0 - 500	-	-	NZM4-4-XKA	266837	1 set		-	
	Rear terminal bolts													
1230PIC-701 Symbolphoto	3 pole	NZM4, N4	max. 1250	Copper cable-lugs Aluminium cable lugs	1 x 120 - 185 2 x 95 - 185 4 x 35 - 185 1 x 185 2 x 70 - 185 4 x 50 - 185	-	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10	NZM4-XKR	266842	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches. Can also be retrofitted: Module plate NZM4...-XKM... or connection width extension NZM4-...-XKV...	Not UL/CSA approved	
	4 pole	NZM4(-4), N4(-4)	max. 1250	Copper cable-lugs Aluminium cable lugs	1 x 120 - 185 2 x 95 - 185 4 x 35 - 185 1 x 185 2 x 70 - 185 4 x 50 - 185	-	(2 x) 10 x 50 x 1.0	(2 x) 50 x 10	NZM4-4-XKR	266843	1 set		Not UL/CSA approved	

	Space requirement	Number of poles	For use with	Rated current[1)] I_n A	Terminal capacity Cable Cable lugs	Terminal capacity mm²	AWG/kcmil	Terminal capacity Copper strip No. of discs x width × disc thickness mm	Copper bar Width x thickness mm	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Connection width extension														
1230PIC-1412 Symbolphoto 	- 	3 pole	NZM4 N(S)4	max. 1600	Copper cable-lugs	4 x 300 6 x 95 - 240	4 x 600 6 x 000 - 500	max. (2 x) 10 x 80 x 1.0	max. (2 x) 80 x 10	NZM4-XKV95	281591	1 set	Contains parts for a terminal located at top or bottom for 3 or 4 pole switches Five-hole fitting, for example, for up to nine cable lugs per phase. Can be fitted to circuit breaker with screw terminal. Phase isolator included as standard. Distance between pole centers: 95 mm Installation conditions for current transformer up to 130 mm width with 80 mm busbar width. 4 mm holes predrilled for control circuit terminal. Contains hole for large cover NZM4(-4)-XKSAV	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL listed, CSA certified Suitable for Refer to main component information
										NZM4-XKV110	281593			
wa_sg02416 Symbolphoto 	- 	4 pole	NZM4-4, N4-4	max. 1600	Copper cable-lugs	4 x 300 6 x 95 - 240	4 x 600 6 x 000 - 500	max. (2 x) 10 x 80 x 1.0	max. (2 x) 80 x 10	NZM4-4-XKV95	281592	1 set		-
										NZM4-4-XKV120	281594			
With two threaded studs														
1230PIC-1411 Symbolphoto 	- 	3 pole	NZM4, N(S)4	1600	Copper cable-lugs	4 x 95 - 300	4 x 500	(2 x) 10 x 80 x 1.0	(2 x) 10 x 80	NZM4-XKV95-2KB	119861	1 set	Type contains parts for 3 to 4-pole switches on top or bottom of switch. Double stud bolts M12 for e. g. up to 4 cable lugs 300 mm² per phase. For fitting to switches with screw connection. Distance between pole centers if 95 mm Can be fitted to current transformers up to 130 mm in width and with a bar width of 80 mm. 4 mm drilling dimensions for control circuit terminal available. Hole for large cover NZM4(-4)-XKSAV included	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E31593 UL CCN DIHS CSA File No. 022086 CSA Class No. 1432-01 NA Certification UL listed, CSA certified Suitable for Refer to main component information
1230PIC-1147 Symbolphoto	- 	4 pole	NZM4-4, N4-4	1600	Copper cable-lugs	4 x 95 - 300	4 x - 500	(2x) 10 x 80 x 1.0	(2 x) 10 x 80	NZM4-4-XKV95-2KB	132674	1 set		-

	Number of poles	For use with	Terminal capacity Connection	Terminal capacity mm²	AWG/kcmil	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America	
	Cover										
1230PIC-1354 Symbolphoto 	3 pole	NZM4, N(S)4	-	-	-	NZM4-XKSA	266846	1 set	Type contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation/protection against direct contact where cable lugs or busbars are connected or tunnel terminals are used. Included in the set with tunnel terminals. When using insulated conductor material to IP1X.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking E31593 DIHS 022086 1432-01 UL listed, CSA certified UL listed, CSA certified
1230PIC-1355 Symbolphoto	4 pole	NZM4-4 N4-4	-			NZM4-4-XKSA	266847	1 set		-	
	Cover size										
	For connection width extension										
1230PIC-699 Symbolphoto	3 pole	NZM4, N(S)4 + NZM4-XKV95(KB)	-	-	-	NZM4-XKSAV	119876	1 set	Type contains parts for a terminal located at top or bottom for 3 pole circuit breakers. Insulation protection/busbar tag shroud for connection of cable lugs or busbars to connection width extension. When using insulated conductor material to IP2X. Cannot be combined with connection width extension NZM4-XKV110.	UL/CSA certification not required	
1230PIC-696 Symbolphoto	4 pole	NZM4-4, N(S)4-4 + NZM4-4-XKV95(KB)	-	-	-	NZM4-4-XKSAV	132676	1 set	Type contains parts for a terminal located at top or bottom for 4 pole circuit breakers. Insulation protection / busbar tag shroud for connection of cable lugs or busbars to connection width extension. Cannot be combined with connection width extension NZM4-4-XKV120. When using insulated conductor material to IP2X.	-	
	Insulation plate										
1230PIC-315 Symbolphoto	3 pole	NZM4, - N(S)4 + NZM4-XKV...	-	-	-	NZM4-XISP	119866	1 set	Type contains parts for a terminal located at top or bottom for 3 or 4 pole circuit breakers. Insulation protection to mounting plate when minimum clearances are not maintained. Included with the connection width extension.	Product Standards NA Certification Suitable for	UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking Request filed for UL and CSA Refer to main component information
	4 pole	NZM4-4 N4-4 + NZM4-4-XKV...	-	-	-	NZM4-4-XISP	119867	1 set		-	

	Number of poles	For use with	Terminal capacity Connection	Terminal capacity mm²	AWG/kcmil	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
	Terminal covers, knockout									
1230PIC-745 Symbolphoto	3 pole	NZM4, N(S)4	-	-	-	NZM4-XKSFA	292193	1 set	Part no. includes parts for a top or bottom terminal for 3 pole circuit breakers, including in combination with NZM4-XKSA cover. Increased busbar tag shroud with connection of insulated bars or flat band.	UL/CSA certification not required
wa_sg07218 Symbolphoto	4 pole	NZM4-4, N4-4	-	-	-	NZM4-4-XKSFA	292194	1 set		-
	Phase isolators									
sg09215 Symbolphoto 	3 pole	NZM4, N(S)4	-	-	-	NZM4-XKP	281595	1 set	Type contains parts for a terminal located at top or bottom for 3 or 4-pole circuit breakers. Included with the connection width extension. Cannot be combined with the tunnel terminal NZM4(-4)-XKA, connection NZM4-XKR on rear. Insulation protection where cable lugs, busbars, module plates or flat cable terminals are used.	Product Standards: UL 489; CSA-C22.2 No. 5-09; IEC 60947; CE marking UL File No.: E31593 UL CCN: DIHS CSA File No.: 022086 CSA Class No.: 1432-01 NA Certification: UL listed, CSA certified Suitable for: Refer to main component information
sg08815 Symbolphoto	4 pole	NZM4-4, N4-4	-	-	-	NZM4-4-XKP	281596	1 set		-

	For use with	Rated current I_n A	Number of poles	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Adapter set N(ZM)4/N(ZM)12							
Not UL/CSA approved							
1230PIC-778 Symbolphoto	N4	max. 1000	3 pole	N4-XAS12-1000	285609	1 set	Conversion kit from N(ZM)12 to N(ZM)4. With the terminal lugs of the replacement kit all three-pole NZM12 and N12 can be adapted to the connection dimensions of the NZM4 or N4 supplied from model year 1983. 4 pole basic devices, withdrawable units and basic devices with remote operator can not be replaced. Contents of replacement kits N(ZM)4-XAS12…: 3 connection extensions on outlet side 3 connection extensions on trip block side 2 mounting brackets 4 fixing screws 4 phase isolators 6 fixing screws, nuts and washers Paper drilling template in the instructional leaflet (AWA) The replacement kits have the same dimensions as models N(ZM)12…, which correspond to production status 02/97 to the present.
1230PIC-779 Symbolphoto	N4	max. 1250	3 pole	N4-XAS12-1250	285610		
1230PIC-780 Symbolphoto	N4	max. 1600	3 pole	N4-XAS12-1600	285611		
1230PIC-778 Symbolphoto	NZM4	max. 1000	3 pole	NZM4-XAS12-1000	285612	1 set	Special feature: Prior to 02/97 the N(ZM)12-800 was supplied with 10 mm instead of 8 mm terminal lugs. With these models the customer must determine the device's year of manufacture by measuring the thickness of the terminal lug and order replacement kit N(ZM)4-XAS12-1250. Example: N(ZM)12-800…(1000) > N(ZM)4-XAS12-1000 N(ZM)12-800 before 02/97 > N(ZM)4-XAS12-1250 N(ZM)12-1250 > N(ZM)4-XAS12-1250 N(ZM)12-1600 > N(ZM)4-XAS12-1600 Addition for devices constructed prior to 1983! Here the replacement kit for switch-disconnectors can be used in full. For circuit-breakers with "long" ZM design, the adapter fit only at the top! At the bottom the devices are about 65 mm longer and the lower connection is about 26 mm deeper. Consequently the bottom adapters are too short and the heights do not correspond.
1230PIC-779 Symbolphoto	NZM4	max. 1250	3 pole	NZM4-XAS12-1250	285613		
1230PIC-780 Symbolphoto	NZM4	max. 1600	3 pole	NZM4-XAS12-1600	285614		
1230PIC-781 Symbolphoto	NZM4, N4	max. 1250	3 pole	NZM4-XAS14-1250	283291	1 set	Conversion kit for NZM14 to NZM4. Same connections as NZM14. Contains for both sides of switch. 3 connection extensions on outlet side 3 connection extensions on trip block side. 1 long shroud for the outlet side Paper drilling template in the instructional leaflet (AWA) Cannot be combined with the module plate (NZM4-XKM...), flat cable terminal (NZM4-XKB), connection width extension (NZM4-XKV...), tunnel terminal (NZM4-XKA), connection on rear (NZM4-XKR) and withdrawable unit (NZM4-XAV...)
1230PIC-847 Symbolphoto	NZM4, N4	1600	3 pole	NZM4-XAS14-1600	283292		

	For use with	Number of poles	Part no.	Article no.	Std. pack	Notes
Plug-in units						
For circuit breakers NZM and switch disconnectors N Not UL/CSA approved Not for U_e > 690 V						
Plug-in socket						
1230PIC-818 Symbolphoto	Completion through switches with plug-in insert NZM...-SVE...	NZM1 N1	3 pole	NZM1-XSVS	109777	1 Off	Mounting position: vertical, 90° right, 90° left Order control circuit plug unit separately!
1230PIC-818 Symbolphoto		NZM2 N2	3 pole	NZM2-XSVS	266699	1 Off	
1230PIC-815 Symbolphoto		NZM2-4 N2-4	4 pole	NZM2-4-XSVS	266700	1 Off	
1230PIC-818 Symbolphoto		NZM3 N3	3 pole	NZM3-XSVS	168472		Mounting position: vertical, 90° right, 90° left Order control circuit plug unit separately! Lockable base
1230PIC-815 Symbolphoto		NZM3-4 N3-4	4 pole	NZM3-4-XSVS	168473		
Control circuit plug unit						
1230PIC-770 Symbolphoto	-	NZM1, N1 NZM2(-4) N2(-4)	For auxiliary contact, shunt/ overvoltage release	NZM2-XSVHI	266705	1 Off	10 terminals
1230PIC-845 Symbolphoto	-	NZM2(-4) N2(-4)	For remote operator	NZM2-XSVR	266706	1 Off	
1230PIC-845 Symbolphoto	-	NZM2(-4) NZM3(-4) NZM4(-4)	For Interface Module	NZM2-XSVBSM	500016	1 Off	

Plug-in units, withdrawable units
NZM1, NZM2, NZM3, NZM4

For use with	Number of poles	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Withdrawable unit					
For circuit breakers NZM and switch disconnectors N Not UL/CSA approved Not for U_e > 690 V					
Socket base					
For switches with withdrawable carrier. Also for reserved compartments.					
NZM3 N3	3 pole	NZM3-XAVS	266711	1 Off	$I_{nmax.}$ at: 20°C: 605 A (NZM3), 1600 A (NZM4) 40°C: 550 A (NZM3), 1500 A (NZM4) Mounting position: NZM3: vertical, 90° left NZM4: vertical 3 positions: Connected, test, disconnected Position indication is mechanical with pointers. Additional electrical indication with auxiliary contacts possible. One N/O or NC contact M22-(C)K01 or M22-(C)K10 each per position. Alternatively also double contacts M22-CK... Complete with control circuit plug unit. All auxiliary contact (HIA, HIN, HIV) and shunt release connections to the control circuit plug unit are already present. Maximum configuration: 3 contacts HIN, 2 contacts HIA, 2 contacts HIV Cannot be combined with adapter set NZM4/NZM14 (NZM4-XSAS14-…) or N(ZM)4/N(ZM)12.
NZM3-4 N3-4	4 pole	NZM3-4-XAVS	266712	1 Off	
NZM4 N4	3 pole	NZM4-XAVS	266713	1 Off	
NZM4-4 N4-4	4 pole	NZM4-4-XAVS	266714	1 Off	
Withdrawable carrier					
Suitable for socket base Only in combination with switch					
NZM4 N4	3 pole	+NZM4-XAVE	266717	1 Off	
NZM4-4 N4-4	4 pole	+NZM4-4-XAVE	266718	1 Off	

1230PIC-697 Symbolphoto

1230PIC-866 Symbolphoto

1230PIC-697 Symbolphoto

1230PIC-866 Symbolphoto

WA_SG170721_L Symbolphoto

Auxiliary contacts with screw terminals/spring-cage terminals
M22-...

For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	NC = normally closed contact	Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
Auxiliary contacts						
Standard auxiliary contacts (HIN) Switches with the main contacts. Used for indicating and interlocking tasks.						
Single contact with screw terminal NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O		1.X3 1.X4	M22-K10	216376	20 Off
		1 NC	1.X1 1.X2	M22-K01	216378	
Single contact with spring-cage terminal NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O		1.X3 1.X4	M22-CK10	216384	
		1 NC	1.X1 1.X2	M22-CK01	216385	
Double contact with spring cage terminal NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	2 N/O	1 NC	1.X3 1.X1 1.X4 1.X2	M22-CK11	107940	
		2 NC	1.X1 1.X1 1.X2 1.X2	M22-CK02	107899	
	2 N/O		1.X3 1.X3 1.X4 1.X4	M22-CK20	107898	

1160PIC-1199

1160PIC-1382

1160PIC-684

Notes	Information relevant for export to North America	
The following can be clipped into the switch: • NZM1: One standard auxiliary contact • NZM2: Up to 2 standard auxiliary contacts M22-(C)K… • NZM3: Up to 3 standard auxiliary contacts M22-(C)K… • NZM4: Up to 3 standard auxiliary contacts M22-(C)K… Any combinations of the auxiliary contact types are possible. Marking on switch: HIN On combination with remote operator NZM-XR... the right mounting location of standard auxiliary contact HIN can be fitted only with individual contacts.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking E29184 NKCR 012528 3211-03 UL Listed, CSA certified

Auxiliary contacts with screw terminals/spring-cage terminals M22-...

	For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact NC = normally closed contact		Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
Auxiliary contacts							
Trip-indicating auxiliary contact (HIA), (HIAFI)[1] General trip-indication "+", when tripped by shunt release, overload release, short-circuit release or earth-fault release due to fault current.							
1160PIC-1199 Single contact with screw terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O		1.X3 1.X4	M22-K10	216376	20 Off
			1 NC	1.X1 1.X2	M22-K01	216378	
1160PIC-1382 Single contact with spring-cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	1 N/O		1.X3 1.X4	M22-CK10	216384	
			1 NC	1.X1 1.X2	M22-CK01	216385	
1160PIC-684 Double contact with spring-cage terminal	NZM1(-4), 2(-4), 3(-4), 4(-4) PN1(-4), 2(-4), 3(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4)	2 N/O	1 NC	1.X3 1.X1 1.X4 1.X2	M22-CK11	107940	
			2 NC	1.X1 1.X1 1.X2 1.X2	M22-CK02	107899	
		2 N/O		1.X3 1.X3 1.X4 1.X4	M22-CK20	107898	

Notes

Information relevant for export to North America

The following can be clipped into the switch:
- NZM1: One trip-indicating auxiliary switch
- NZM2: One trip-indicating auxiliary switch M22-(C)K…
- NZM3: One trip-indicating auxiliary switch M22-(C)K…
- NZM4: Up to 2 trip-indicating auxiliary switches M22-(C)K…

Any combinations of the auxiliary contact types are possible.
Not in combination with switch-disconnector PN…
Marking on switch: HIA.
Labeling in residual current-block: HIAFI.
If the trip-indicating auxiliary contacts are used in the residual current-block, the NC contacts operate as N/O contacts and the N/O contact operates as an NC contact.

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

Auxiliary contacts with screw terminals/spring-cage terminal NZM1, NZM2/3..., NZM4

	For use with	Contact configuration: ⊖ = safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact NC = normally closed contact		Contact sequences	Part no. Article no. when ordering separately	Article no.	Std. pack
Auxiliary contacts							
Early-make auxiliary contact For interlocking and load shedding circuits, as well as for early make of the undervoltage release in main switch/emergency switching off applications							
1230PIC-763 Symbolphoto With clamp terminal on left switch side	NZM1(-4), PN1(-4), N1(-4)		-	3.13 3.23 3.14 3.24	NZM1-XHIV	259426	1 Off
1230PIC-765 Symbolphoto With clamp terminal on right switch side.		2 N/O	-	3.13 3.23 3.14 3.24	NZM1-XHIVR	292195	
1230PIC-764 Symbolphoto With 3 m connection cable instead of screw connection.		2 N/O	-	3.13 3.23 3.14 3.24	NZM1-XHIVL	259432	
Notes					Information relevant for export to North America		

Not in conjunction with undervoltage release NZM…-XU… or shunt release NZM…-XA…
Early make with switch on and switch off (manual actuation): approx. 20 ms

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

WA_SG03022_L Symbolphoto -	NZM2(-4), 3(-4) PN2(-4), 3(-4) N(S)2(-4), 3(-4)	2 N/O	-	3.13 3.23 3.14 3.24	NZM2/3-XHIV	259430[1)]
		1 N/O		3.13 3.14	NZM2/3-XHIV-PI	189748[1)]
SG06521_L Symbolphoto -	NZM4(-4) N(S)4(-4)	2 N/O	-	3.13 3.23 3.14 3.24	NZM4-XHIV	266172[2)]

Notes

Information relevant for export to North America

[1)] Not in conjunction with undervoltage release NZM…-XU…, shunt releases NZM…-XA…
Early make with switch on and switch off (manual actuation): approx. 20 ms

[2)] Not in conjunction with undervoltage release NZM…-XU…, shunt releases NZM…-XA… or remote operator NZM…-XR…
Early make (manual operation): approx: ca. 90 ms

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases
NZM1

Undervoltage releases

Without auxiliary contacts

Non-delayed disconnection of circuit breaker NZM or switch disconnector N when control voltage drops below 35 – 70 % U_S.
For use with emergency switching off devices in conjunction with emergency switching off button.

1230PIC-1127 Symbolphoto

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
With clamp terminal on left switch side.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XU24AC	259434	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA...
		48 V 50/60 Hz	NZM1-XU48AC	259436		
		60 V 50/60 Hz	NZM1-XU60AC	259438		
		110 V - 130 V 50/60 Hz	NZM1-XU110-130AC	259440		
		208 V - 240 V 50/60 Hz	NZM1-XU208-240AC	259442		
		380 V - 440 V 50/60 Hz	NZM1-XU380-440AC	259444		
		480 V - 525 V 50/60 Hz	NZM1-XU480-525AC	259446		
		600 V 50/60 Hz	NZM1-XU600AC	259448		
		12 V DC	NZM1-XU12DC	259450		
		18 V DC	NZM1-XU18DC	171798		
		24 V DC	NZM1-XU24DC	259452		
		48 V DC	NZM1-XU48DC	262631		
		60 V DC	NZM1-XU60DC	259454		
		110 V - 130 V DC	NZM1-XU110-130DC	259458		
		220 V - 250 V DC	NZM1-XU220-250DC	259460		

1230PIC-1131 Symbolphoto

With 3 m connection cable instead of screw terminal.	NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUL24AC	259462	1 Off	
		110 V - 130 V 50/60 Hz	NZM1-XUL110-130AC	259468		
		208 V - 240 V 50/60 Hz	NZM1-XUL208-240AC	259471		
		380 V - 440 V 50/60 Hz	NZM1-XUL380-440AC	259473		
		480 V - 525 V 50/60 Hz	NZM1-XUL480-525AC	259475		
		600 V 50/60 Hz	NZM1-XUL600AC	259477		
		12 V DC	NZM1-XUL12DC	259479		
		18 V DC	NZM1-XUL18DC	171799		
		24 V DC	NZM1-XUL24DC	259481		
		110 V - 130 V DC	NZM1-XUL110-130DC	259487		
		220 V - 250 V DC	NZM1-XUL220-250DC	259489		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases
NZM2/3..., NZM4

Undervoltage releases

Without auxiliary contacts

Non-delayed disconnection of circuit breaker NZM or switch disconnector N when control voltage drops below 35 – 70 % U_S.
For use with emergency switching off devices in conjunction with emergency switching off button

1230PIC-1133 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XU24AC	259491	1 Off	When the undervoltage release is de-energized, accidental contact with the main switches of the switch during attempts to switch on is reliably prevented. Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XA...
	48 V 50/60 Hz	NZM2/3-XU48AC	259493		
	60 V 50/60 Hz	NZM2/3-XU60AC	259495		
	110 V - 130 V 50/60 Hz	NZM2/3-XU110-130AC	259497		
	208 V - 240 V 50/60 Hz	NZM2/3-XU208-240AC	259499		
	380 V - 440 V 50/60 Hz	NZM2/3-XU380-440AC	259501		
	480 V - 525 V 50/60 Hz	NZM2/3-XU480-525AC	259503		
	600 V 50/60 Hz	NZM2/3-XU600AC	259505		
	12 V DC	NZM2/3-XU12DC	259507		
	18 V DC	NZM2/3-XU18DC	171802		
	24 V DC	NZM2/3-XU24DC	259509		
	48 V DC	NZM2/3-XU48DC	259511		
	60 V DC	NZM2/3-XU60DC	259513		
	110 V - 130 V DC	NZM2/3-XU110-130DC	259515		
	220 V - 250 V DC	NZM2/3-XU220-250DC	259517		

1230PIC-1148 Symbolphoto

NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XU24AC	266189	1 Off	
	48 V 50/60 Hz	NZM4-XU48AC	266190		
	60 V 50/60 Hz	NZM4-XU60AC	266191		
	110 V - 130 V 50/60 Hz	NZM4-XU110-130AC	266192		
	208 V - 240 V 50/60 Hz	NZM4-XU208-240AC	266193		
	380 V - 440 V 50/60 Hz	NZM4-XU380-440AC	266194		
	480 V - 525 V 50/60 Hz	NZM4-XU480-525AC	266195		
	600 V 50/60 Hz	NZM4-XU600AC	266196		
	12 V DC	NZM4-XU12DC	266203		
	18 V DC	NZM4-XU18DC	171804		
	24 V DC	NZM4-XU24DC	266204		
	48 V DC	NZM4-XU48DC	266205		
	60 V DC	NZM4-XU60DC	266206		
	110 V - 130 V DC	NZM4-XU110-130DC	266207		
	220 V - 250 V DC	NZM4-XU220-250DC	266208		

Information relevant for export to North America

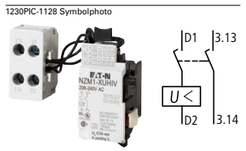
Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases

With two early-make auxiliary contacts

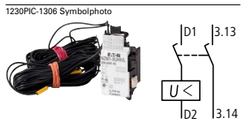
For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.
For use with emergency switching off devices in conjunction with emergency switching off button.

1230PIC-1128 Symbolphoto



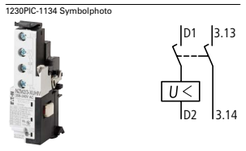
For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
With clamp terminal on left switch side. NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV24AC	259531	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA... .
	48 V 50/60 Hz	NZM1-XUHIV48AC	259533		
	60 V 50/60 Hz	NZM1-XUHIV60AC	259535		
	110 V - 130 V 50/60 Hz	NZM1-XUHIV110-130AC	259537		
	208 V - 240 V 50/60 Hz	NZM1-XUHIV208-240AC	259539		
	380 V - 440 V 50/60 Hz	NZM1-XUHIV380-440AC	259541		
	480 V - 525 V 50/60 Hz	NZM1-XUHIV480-525AC	259543		
	12 V DC	NZM1-XUHIV12DC	259545		
	18 V DC	NZM1-XUHIV18DC	171800		
	24 V DC	NZM1-XUHIV24DC	259547		
	48 V DC	NZM1-XUHIV48DC	259549		
	60 V DC	NZM1-XUHIV60DC	259551		
	110 V - 130 V DC	NZM1-XUHIV110-130DC	259553		
	220 V - 250 V DC	NZM1-XUHIV220-250DC	259555		

1230PIC-1306 Symbolphoto



With 3 m connection cable instead of screw connection. NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIVL24AC	259557	1 Off	
	110 V - 130 V 50/60 Hz	NZM1-XUHIVL110-130AC	259563		
	208 V - 240 V 50/60 Hz	NZM1-XUHIVL208-240AC	259565		
	380 V - 440 V 50/60 Hz	NZM1-XUHIVL380-440AC	259567		
	480 V - 525 V 50/60 Hz	NZM1-XUHIVL480-525AC	259569		
	12 V DC	NZM1-XUHIVL12DC	259571		
	18 V DC	NZM1-XUHIVL18DC	171801		
	24 V DC	NZM1-XUHIVL24DC	259573		
	110 V - 130 V DC	NZM1-XUHIVL110-130DC	259579		
	220 V - 250 V DC	NZM1-XUHIVL220-250DC	259581		

1230PIC-1134 Symbolphoto



- NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XUHIV24AC	259583	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA....
	48 V 50/60 Hz	NZM2/3-XUHIV48AC	259585		
	60 V 50/60 Hz	NZM2/3-XUHIV60AC	259587		
	110 V - 130 V 50/60 Hz	NZM2/3-XUHIV110-130AC	259589		
	208 V - 240 V 50/60 Hz	NZM2/3-XUHIV208-240AC	259591		
	380 V - 440 V 50/60 Hz	NZM2/3-XUHIV380-440AC	259594		
	480 V - 525 V 50/60 Hz	NZM2/3-XUHIV480-525AC	259598		
	12 V DC	NZM2/3-XUHIV12DC	259600		
	18 V DC	NZM2/3-XUHIV18DC	171803		
	24 V DC	NZM2/3-XUHIV24DC	259602		
	48 V DC	NZM2/3-XUHIV48DC	259604		
	60 V DC	NZM2/3-XUHIV60DC	259606		
	110 V - 130 V DC	NZM2/3-XUHIV110-130DC	259608		
	220 V - 250 V DC	NZM2/3-XUHIV220-250DC	259610		

Information relevant for export to North America

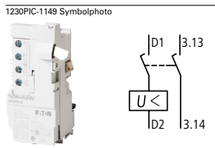
Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Undervoltage releases

With two early-make auxiliary contacts

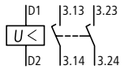
For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications.
For use with emergency switching off devices in conjunction with emergency switching off button.

1230PIC-1149 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XUHIV24AC	266217	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on (manual operation): approx. 90 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed together with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…
	48 V 50/60 Hz	NZM4-XUHIV48AC	266218		
	60 V 50/60 Hz	NZM4-XUHIV60AC	266219		
	110 V - 130 V 50/60 Hz	NZM4-XUHIV110-130AC	266220		
	208 V - 240 V 50/60 Hz	NZM4-XUHIV208-240AC	266221		
	380 V - 440 V 50/60 Hz	NZM4-XUHIV380-440AC	266222		
	480 V - 525 V 50/60 Hz	NZM4-XUHIV480-525AC	266223		
	12 V DC	NZM4-XUHIV12DC	266231		
	18 V DC	NZM4-XUHIV18DC	171805		
	24 V DC	NZM4-XUHIV24DC	266232		
	48 V DC	NZM4-XUHIV48DC	266233		
	60 V DC	NZM4-XUHIV60DC	266234		
	110 V - 130 V DC	NZM4-XUHIV110-130DC	266235		
	220 V - 250 V DC	NZM4-XUHIV220-250DC	266236		

1230PIC-1130 Symbolphoto

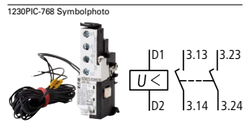


With 2 separate early-make auxiliary contacts

With 3 m connection cable instead of screw terminal.

NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20L24AC	259612	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed together with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20L110-130AC	259620		
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20L208-240AC	259622		
	380 V - 440 V 50/60 Hz	NZM1-XUHIV20L380-440AC	259624		
	420 - 480 V 50/60 Hz	NZM1-XUHIV20L420-480VAC	105946		
	24 V DC	NZM1-XUHIV20L24DC	259630		
	18 V DC	NZM1-XUHIV20L18DC	171807		

1230PIC-768 Symbolphoto



Contacts 3.23 and 3.24 with separate 3 m connection cables.

NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V 50/60 Hz	NZM2/3-XUHIV2024AC	259640	1 Off	
	48 V 50/60 Hz	NZM2/3-XUHIV2048AC	259643		
	110 V - 130 V 50/60 Hz	NZM2/3-XUHIV20110-130AC	259648		
	208 V - 240 V 50/60 Hz	NZM2/3-XUHIV20208-240AC	259651		
	380 V - 440 V 50/60 Hz	NZM2/3-XUHIV20380-440AC	259653		
	420 - 480 V 50/60 Hz	NZM2/3-XUHIV20420-480VAC	105947		
	24 V DC	NZM2/3-XUHIV2024DC	259659		
	18 V DC	NZM2/3-XUHIV2018DC	171808		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

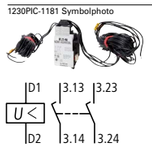
Undervoltage releases

With 2 separate early-make auxiliary contacts

For use with emergency switching off devices in conjunction with emergency switching off button.

Coil connections wired to clamp terminals, auxiliary contact connections with 3 m loose connection cables.

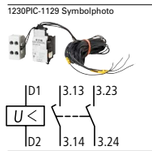
1230PIC-1181 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20KL24AC	284388	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Cannot be used in conjunction with remote operator NZM...-XR.... Undervoltage release cannot be installed simultaneously with early-make auxiliary contact NZM...- XHIV... or shunt release NZM...-XA...
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20KL110-130AC	284389		
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20KL208-240AC	284400		
	24 V DC	NZM1-XUHIV20KL24DC	284387		

Coil connections with 3 m loose connection cables, auxiliary contact connections wired to clamp terminals

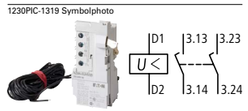
1230PIC-1129 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack
NZM1(-4), N(S)1(-4)	24 V 50/60 Hz	NZM1-XUHIV20LK24AC	284402	1 Off
	110 V - 130 V 50/60 Hz	NZM1-XUHIV20LK110-130AC	284403	
	208 V - 240 V 50/60 Hz	NZM1-XUHIV20LK208-240AC	284404	
	24 V DC	NZM1-XUHIV20LK24DC	284401	

Contacts 3.23 and 3.24 with separate 3 m connection cables

1230PIC-1319 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack
NZM4(-4), N(S)4(-4)	24 V 50/60 Hz	NZM4-XUHIV2024AC	266244	1 Off
	110 V - 130 V 50/60 Hz	NZM4-XUHIV20110-130AC	266247	
	208 V - 240 V 50/60 Hz	NZM4-XUHIV20208-240AC	266248	
	380 V - 440 V 50/60 Hz	NZM4-XUHIV20380-440AC	266249	
	18 V DC	NZM4-XUHIV2018DC	171809	
	24 V DC	NZM4-XUHIV2024DC	266258	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

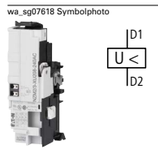
Undervoltage releases

Without auxiliary contact - with push in terminal

Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.

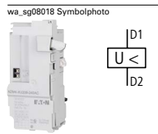
For use with emergency-stop devices in connection with an emergency-stop button.

wa_sg07618 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V AC 50/60 Hz	NZM2/3-XU24AC-PI	189750	1 Off	If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Undervoltage release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, shunt release NZM…-XA… or relais modules NZM...-X2A...
	48 V AC 50/60 Hz	NZM2/3-XU48AC-PI	189751		
	60 V AC 50/60 Hz	NZM2/3-XU60AC-PI	189752		
	110 - 130 V AC 50/60 Hz	NZM2/3-XU110-130AC-PI	189753		
	208 - 240 V AC 50/60 Hz	NZM2/3-XU208-240AC-PI	189754		
	12 V DC	NZM2/3-XU12DC-PI	189755		
	18 V DC	NZM2/3-XU18DC-PI	189756		
	24 V DC	NZM2/3-XU24DC-PI	189757		
	48 V DC	NZM2/3-XU48DC-PI	189758		
	60 V DC	NZM2/3-XU60DC-PI	189759		
	110 - 130 V DC	NZM2/3-XU110-130DC-PI	189760		
	220 - 250 V DC	NZM2/3-XU220-250DC-PI	189761		

wa_sg08018 Symbolphoto

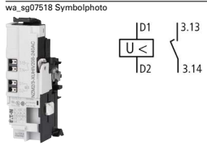


For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack
NZM4(-4), N(S)4(-4)	24 V AC 50/60 Hz	NZM4-XU24AC-PI	189762	1 Off
	48 V AC 50/60 Hz	NZM4-XU48AC-PI	189763	
	60 V AC 50/60 Hz	NZM4-XU60AC-PI	189764	
	110 - 130 V AC 50/60 Hz	NZM4-XU110-130AC-PI	189765	
	208 - 240 V AC 50/60 Hz	NZM4-XU208-240AC-PI	189766	
	12 V DC	NZM4-XU12DC-PI	189767	
	18 V DC	NZM4-XU18DC-PI	189768	
	24 V DC	NZM4-XU24DC-PI	189769	
	48 V DC	NZM4-XU48DC-PI	189770	
	60 V DC	NZM4-XU60DC-PI	189771	
	110 - 130 V DC	NZM4-XU110-130DC-PI	189772	
	220 - 250 V DC	NZM4-XU220-250DC-PI	189773	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

wa_sg07518 Symbolphoto



For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Undervoltage releases					
With one early-make auxiliary contact - with Push-In terminals For interlocking and load-shedding circuits, as well as for early-make of the undervoltage release in main-switch applications. For use with emergency switching off devices in conjunction with emergency switching off button.					
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	24 V AC 50/60 Hz	NZM2/3-XUHIV24AC-PI	189774	1 Off	When the undervoltage release is de-energized, accidental contact with the main contacts of the switch during attempts to switch on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA... .
	48 V AC 50/60 Hz	NZM2/3-XUHIV48AC-PI	189775		
	60 V AC 50/60 Hz	NZM2/3-XUHIV60AC-PI	189776		
	110 - 130 V AC 50/60 Hz	NZM2/3-XUHIV110-130AC-PI	189777		
	208 - 240 V AC 50/60 Hz	NZM2/3-XUHIV208-240AC-PI	189778		
	12 V DC	NZM2/3-XUHIV12DC-PI	189779		
	18 V DC	NZM2/3-XUHIV18DC-PI	189780		
	24 V DC	NZM2/3-XUHIV24DC-PI	189781		
	48 V DC	NZM2/3-XUHIV48DC-PI	189782		
	60 V DC	NZM2/3-XUHIV60DC-PI	189783		
	110 - 130 V DC	NZM2/3-XUHIV110-130DC-PI	189784		
	220 - 250 V DC	NZM2/3-XUHIV220-250DC-PI	189785		

Information relevant for export to North America

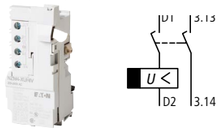
Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

1230PIC-795 Symbolphoto

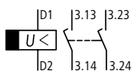
For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Undervoltage releases, off-delayed				
Combination of separate delay unit and special releases. For use with emergency switching off devices in conjunction with emergency switching off button. Not UL/CSA approved.				
Delay unit Voltage dips of less than 0.06 – 16 s do not cause disconnection of the NZM circuit breaker or N switch disconnector.				
NZM1(-4), 2(-4), 3(-4), 4(-4) N(S)1(-4), 2(-4), 3(-4), 4(-4) 50/60 Hz 220 V - 240 V 380 V - 440 V 480 V - 550 V DC/AC 24 V	UVU-NZM	260154	1 Off	Delay time can be set from 70 ms - 4 s. With additional external capacitor: • 30.000 µF ≧ 35 V up to 8 s • 90.000 µF ≧ 35 V up to 16 s Cannot be installed simultaneously with early-make auxiliary contact NZM…-XHIV… or shunt release NZM…-XA…. Delay unit for separate installation (mounting: top-hat rail or screws). For other operating voltages use a control transformer.
Special trip block FFor combination with separate delay unit				
Without auxiliary contacts NZM1 with 3 m loose connection cables instead of screw terminal, NZM2, 3, and 4 with screw terminals.				
NZM1(-4) N(S)1(-4)	NZM1-XUVL	271607	1 Off	Delay unit UVU-NZM is additionally required. Cannot be installed simultaneously with separate early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA....
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUV	259527		
NZM4(-4) N(S)4(-4)	NZM4-XUV	266588		
With two early-make auxiliary contacts				
NZM1(-4) N(S)1(-4)	NZM1-XUVHIVL	271608	1 Off	Cannot be used in conjunction with remote operator NZM...-XR.... Delay unit UVU-NZM is additionally required. Cannot be installed simultaneously with separate early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XA.... NZM1, 2, 3: Early make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms. NZM4: Early make of auxiliary contacts on switching on (manual operation): approx. 90 ms.
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUVHIV	259684		
NZM4(-4) N(S)4(-4)	NZM4-XUVHIV	266596		
With two independently operating early-make auxiliary contacts NZM1 with 3 m separate connection cables instead of screw terminal, NZM2, 3 and 4 with screw terminal, contact 3.23 and 3.24 with 3 m separate connection cables				
NZM1(-4) N(S)1(-4)	NZM1-XUVHIV20L	271609	1 Off	
NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	NZM2/3-XUVHIV20	259688		
NZM4(-4) N(S)4(-4)	NZM4-XUVHIV20	266604		

1230PIC-1148 Symbolphoto

1230PIC-1149 Symbolphoto



1230PIC-1319 Symbolphoto



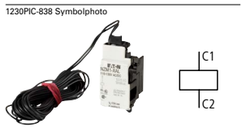
Shunt releases

Without auxiliary contacts
Switches are tripped by a voltage pulse or by the application of uninterrupted voltage.

1230PIC-756 Symbolphoto

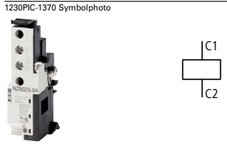
For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
With clamp terminal on left switch side; NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XA12AC/DC	259706	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Undervoltage releases cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or shunt release NZM...-XU... .
	24 V AC/DC	NZM1-XA24AC/DC	259708		
	48 V AC/DC	NZM1-XA48AC/DC	259720		
	60 V AC/DC	NZM1-XA60AC/DC	259722		
	110 V - 130 V AC/DC	NZM1-XA110-130AC/DC	259724		
	208 V - 250 V AC/DC	NZM1-XA208-250AC/DC	259726		
	380 V - 440 V AC/DC	NZM1-XA380-440AC/DC	259728		
	480 V - 525 V AC/DC	NZM1-XA480-525AC/DC	259730		

1230PIC-838 Symbolphoto



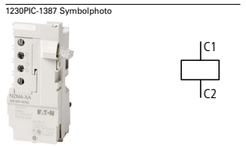
With 3 m connection cable instead of screw terminal; NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAL12AC/DC	259734	1 Off	
	24 V AC/DC	NZM1-XAL24AC/DC	259736		
	110 V - 130 V AC/DC	NZM1-XAL110-130AC/DC	259742		
	208 V - 250 V AC/DC	NZM1-XAL208-250AC/DC	259744		
	380 V - 440 V AC/DC	NZM1-XAL380-440AC/DC	259746		
	480 V - 525 V AC/DC	NZM1-XAL480-525AC/DC	259748		

1230PIC-1370 Symbolphoto



- ; NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XA12AC/DC	259752	1 Off	
	24 V AC/DC	NZM2/3-XA24AC/DC	259754		
	48 V AC/DC	NZM2/3-XA48AC/DC	259756		
	60 V AC/DC	NZM2/3-XA60AC/DC	259758		
	110 V - 130 V AC/DC	NZM2/3-XA110-130AC/DC	259760		
	208 V - 250 V AC/DC	NZM2/3-XA208-250AC/DC	259763		
	380 V - 440 V AC/DC	NZM2/3-XA380-440AC/DC	259766		
	480 V - 525 V AC/DC	NZM2/3-XA480-525AC/DC	259768		

1230PIC-1387 Symbolphoto



- ; NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XA12AC/DC	266446	1 Off	
	24 V AC/DC	NZM4-XA24AC/DC	266447		
	48 V AC/DC	NZM4-XA48AC/DC	266448		
	60 V AC/DC	NZM4-XA60AC/DC	266449		
	110 V - 130 V AC/DC	NZM4-XA110-130AC/DC	266450		
	208 V - 250 V AC/DC	NZM4-XA208-250AC/DC	266451		
	380 V - 440 V AC/DC	NZM4-XA380-440AC/DC	266452		
	480 V - 525 V AC/DC	NZM4-XA480-525AC/DC	266453		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Shunt releases

Capacitor unit 230 V 50/60 Hz in conjunction with shunt release NZM...-XA208-250 AC/DC
Enclosure: degree of protection IP20
Not UL/CSA approved

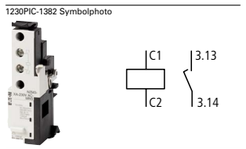
1230PIC-788 Symbolphoto

For use with	Part no. Mit Screw terminals	Article no.	Std. pack	Notes
NZM1(-4), N(S)1(-4) NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	NZM-XCM	229413	1 Off	Enables the reliable use of circuit breakers as mesh network circuit breakers in the range from 0 – 110 % Un with constant switch-off time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. The capacitor unit is arranged independently of the circuit breaker. Connect NZM-XCM to the power feed side. Note on engineering: Connect a standard auxiliary contact (HIN) as N/O in series with the coil of the shunt release! Standard auxiliary contact not included as standard

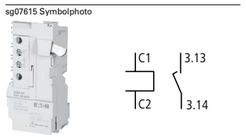
Shunt releases

For mesh network circuit breakers
For intermittent operation
Maximum On-time = 1 s
Operating range 10-110 % U_s
Not UL/CSA approved

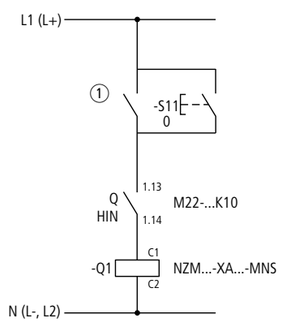
1230PIC-1382 Symbolphoto



sg07615 Symbolphoto



Without auxiliary contacts	NZM3-XA-230AC-MNS	274097	1 Off	Rated control voltage 230 V AC For use with NZM3(-4), N3(-4) and NZM4(-4), N4(-4) Cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU.... Intermittent operation guaranteed by series connection of a make contact M22-(C)K10. The maximum duty factor of the shunt releases for mesh network circuit breakers is 1 s.
With early-make auxiliary contact	NZM3-XAHIV-230AC-MNS	274141		
Without auxiliary contacts	NZM4-XA-230AC-MNS	274138		
With early-make auxiliary contact	NZM4-XAHIV-230AC-MNS	274143		

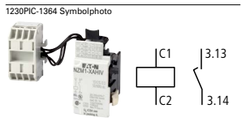
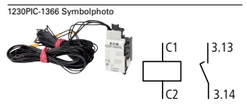
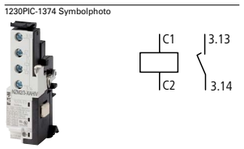
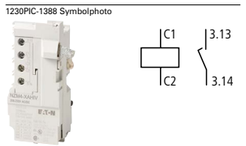


1 Reverse power relay contact from mesh network relay
-S11 Remote off
Q Standard auxiliary contacts
-Q1 Shunt releases

NZM...-XAHIV:
Cannot be used in conjunction with remote operator NZM...-XR....
NZM3: Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms.
NZM4: Early make of auxiliary contact on switching on (manual operation): approx. 90 ms.

Shunt releases

With early-make auxiliary contact
Not in combination with remote operator.

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
1230PIC-1364 Symbolphoto 	With clamp terminal on left switch side.	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAHIV12AC/DC	259772	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Shunt release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU...
			24 V AC/DC	NZM1-XAHIV24AC/DC	259774	
			48 V AC/DC	NZM1-XAHIV48AC/DC	259776	
			60 V AC/DC	NZM1-XAHIV60AC/DC	259778	
			110 V - 130 V AC/DC	NZM1-XAHIV110-130AC/DC	259780	
			208 V - 250 V AC/DC	NZM1-XAHIV208-250AC/DC	259782	
			380 V - 440 V AC/DC	NZM1-XAHIV380-440AC/DC	259784	
1230PIC-1366 Symbolphoto 	With 3 m connection cable instead of screw terminal	NZM1(-4), N(S)1(-4)	12 V AC/DC	NZM1-XAHIVL12AC/DC	259790	1 Off	
			24 V AC/DC	NZM1-XAHIVL24AC/DC	259792	
			110 V - 130 V AC/DC	NZM1-XAHIVL110-130AC/DC	259798	
			208 V - 250 V AC/DC	NZM1-XAHIVL208-250AC/DC	259800	
			380 V - 440 V AC/DC	NZM1-XAHIVL380-440AC/DC	259802	
1230PIC-1374 Symbolphoto 	with Screw terminals	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XAHIV12AC/DC	259808	1 Off	
			24 V AC/DC	NZM2/3-XAHIV24AC/DC	259810	
			48 V AC/DC	NZM2/3-XAHIV48AC/DC	259812	
			60 V AC/DC	NZM2/3-XAHIV60AC/DC	259814	
			110 V - 130 V AC/DC	NZM2/3-XAHIV110-130AC/DC	259816	
			208 V - 250 V AC/DC	NZM2/3-XAHIV208-250AC/DC	259818	
			380 V - 440 V AC/DC	NZM2/3-XAHIV380-440AC/DC	259820	
1230PIC-1388 Symbolphoto 	with Screw terminals	NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XAHIV12AC/DC	266470	1 Off	When the shunt release is live, contact with the switch's main contacts on switching on is reliably prevented. Early make of auxiliary contact on switching on (manual operation): approx. 90 ms. Cannot be used in conjunction with remote operator NZM...-XR.... Shunt release cannot be installed simultaneously with early-make auxiliary contact NZM...-XHIV... or undervoltage release NZM...-XU....
			24 V AC/DC	NZM4-XAHIV24AC/DC	266471	
			48 V AC/DC	NZM4-XAHIV48AC/DC	266472	
			60 V AC/DC	NZM4-XAHIV60AC/DC	266473	
			110 V - 130 V AC/DC	NZM4-XAHIV110-130AC/DC	266474	
			208 V - 250 V AC/DC	NZM4-XAHIV208-250AC/DC	266475	
			380 V - 440 V AC/DC	NZM4-XAHIV380-440AC/DC	266476	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Shunt releases

Without auxiliary contacts - with push in terminal
Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.
For use with emergency-stop devices in connection with an emergency-stop button.

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
SG06121_L Symbolphoto	NZM2(-4), N(S)2(-4) NZM3(-4), N(S)3(-4)	12 V AC/DC	NZM2/3-XA12AC/DC-PI	189798	1 Off	When the shunt release is live, contact with the circuit breaker's main contacts on switching on is reliably prevented. Shunt release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, untervoltage release NZM…-XU…, or relais modules NZM...-X2A...
		24 V AC/DC	NZM2/3-XA24AC/DC-PI	189799		
		48 V AC/DC	NZM2/3-XA48AC/DC-PI	189800		
		60 V AC/DC	NZM2/3-XA60AC/DC-PI	189801		
		110 V - 130 V AC/DC	NZM2/3-XA110-130AC/DC-PI	189802		
		208 V - 250 V AC/DC	NZM2/3-XA208-250AC/DC-PI	189803		
SG06321_L Symbolphoto	NZM4(-4), N(S)4(-4)	12 V AC/DC	NZM4-XA12AC/DC-PI	189804		
		24 V AC/DC	NZM4-XA24AC/DC-PI	189805		
		48 V AC/DC	NZM4-XA48AC/DC-PI	189806		
		60 V AC/DC	NZM4-XA60AC/DC-PI	189807		
		110 V - 130 V AC/DC	NZM4-XA110-130AC/DC-PI	189808		
		208 V - 250 V AC/DC	NZM4-XA208-250AC/DC-PI	189809		

With early-make auxiliary contact - with push in terminal
Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S.
For use with emergency-stop devices in connection with an emergency-stop button.

	For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
SG05921_L Symbolphoto	NZM2(-4), NZM3(-4), N(S)2(-4), N3(-4)	12 V AC/DC	NZM2/3-XAHIV12AC/DC-PI	189810	1 Off	When the shunt release is live, contact with the circuit breaker's main contacts on switching on is reliably prevented. Early-make of auxiliary contacts on switching on and off (manual operation): approx. 20 ms (NZM2/3) and 90 ms (NZM4). Shunt release modules cannot be installed simultaneously with early-make contact NZM…-XHIV, untervoltage release NZM…-XU…, relais modules NZM...-X2A..., or remote operator NZM...-XR...
		24 V AC/DC	NZM2/3-XAHIV24AC/DC-PI	189811		
		48 V AC/DC	NZM2/3-XAHIV48AC/DC-PI	189812		
		60 V AC/DC	NZM2/3-XAHIV60AC/DC-PI	189813		
		110 V - 130 V AC/DC	NZM2/3-XAHIV110-130AC/DC-PI	189814		
		208 V - 250 V AC/DC	NZM2/3-XAHIV208-250AC/DC-PI	189815		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes

Relay modules

Undervoltage releases with two relais

wa_sg06918 Symbolphoto

wa_sg06518 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XU2A24AC	189724	1 Off	Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S. For use with emergency-stop devices in connection with an emergency-stop button. For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. When the under-voltage trip is switched off, accidental contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit breakers with electronic trips. Under-voltage trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
	NZM2/3-XU2A24DC	189725		
	NZM2/3-XU2A110-130AC	189726		
	NZM2/3-XU2A208-240AC	189727		
PXR20(25) NZM4(-4)-...X...	NZM4-XU2A24AC	189728		
	NZM4-XU2A24DC	189729		
	NZM4-XU2A110-130AC	189730		
	NZM4-XU2A208-240AC	189731		

sg05318 Symbolphoto

Undervoltage releases and 1 early-make auxiliary contact and 2 Relais

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XUHIV2A24AC	189732	1 Off	For interlock circuits and load-shedding circuits as well as make-before-break interruption of the shunt trip for primary breaker use. Instantaneous shut-off of the NZM circuit breaker when the control voltage drops below 35 - 70 % U_S. For use with emergency-stop devices in connection with an emergency-stop button.
	NZM2/3-XUHIV2A24DC	189733		
	NZM2/3-XUHIV2A110-130AC	189734		
	NZM2/3-XUHIV2A208-240AC	189735		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes

Relay modules

Shunt release with two relays

SG06021_L Symbolphoto

SG06221_L Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-XA2A24AC/DC	189740	1 Off	The breakers are actuated by a voltage pulse or by applying a no-break current. For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Only for use in combination with circuit breakers with electronic trips. Shunt trip relay modules cannot be installed simultaneously with make-before-break auxiliary contact NZM...-XHIV, under-voltage trip NZM...-XU... or shunt trip NZM...-XA. Relay coil is controlled by trip unit. Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip.
	NZM2/3-XA2A110-130AC	189742		
	NZM2/3-XA2A208-240AC	189743		
PXR20(25) NZM4(-4)-...X...	NZM4-XA2A24AC/DC	189744		
	NZM4-XA2A110-130AC	189746		
	NZM4-XA2A208-240AC	189747		

Relay module

wa_sg07318 Symbolphoto

wa_sg07418 Symbolphoto

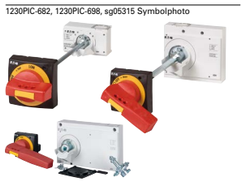
For use with	Part no.	Article no.	Std. pack	Notes
PXR20(25) NZM2(-4)-...X... PXR20(25) NZM3(-4)-...X...	NZM2/3-X2A	189722	1 Off	For signalizing commands or different states of the circuit breaker. Two relays per unit. The activation criteria can be configured in the trip unit. Configuration via communication or circuit breaker display or front USB port and Eaton Power Xpert Protection Manager. 24 V DC, 24 - 240 V 50/60 Hz. Only for use in combination with circuit breakers with electronic trips. Relay components cannot be installed simultaneously with make-before-break auxiliary breaker NZM...-XHIV, the under-voltage trip NZM...-XU.... or the shunt trip NZM...-XA.... Relay contacts for control wiring. Control wiring on push-in clamps. Cannot be used with the PXR10 NZM-AX electronic trip
PXR20(25) NZM4(-4)-...X...	NZM4-X2A	189723		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Door coupling rotary handles

Complete including rotary drive and coupling parts
An additional extension shaft is necessary with the NZM...-XT(V)D(V)(R)(-60) part numbers.
Degree of protection IP66/UL/CSA type 4X, 12

Product view	For use with	Standard Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	For maximum shaft length 60 mm Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Extremely narrow fittings / Article no. when ordering separately	Article no.	Std. pack	Notes
Standard, black/grey													
1230PIC-681, sg06315, 1230PIC-1419 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks. With door interlock	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVD	260166	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.	NZM1-XTVD-60	271504	1 Off	Door interlock • Can not be defeated in the locked OFF and ON positions • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM…-XTVD(V)-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVD-0	279392	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVD	260168			NZM2-XTVD-60	271505			NZM2-XTVD-0	279393		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVD	260170			NZM3-XTVD-60	271506			NZM3-XTVD-0	279394		
	NZM4(-4), N(S)4(-4)	NZM4-XTVD	266614			NZM4-XTVD-60	271507			NZM4-XTVD-0	279395		
1230PIC-681, sg06115, 1230PIC-1419 Symbolphoto Lockable on handle and switch with up to 3 padlocks. Can be locked in 0 position, with adequate modification also in I position. With door interlock. Lockable on switch in 0 position.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDV	260172			NZM1-XTVDV-60	271508			NZM1-XTVDV-0	279396		
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDV	260174			NZM2-XTVDV-60	271509			NZM2-XTVDV-0	279397		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDV	260176			NZM3-XTVDV-60	271510			NZM3-XTVDV-0	279398		
	NZM4(-4), N(S)4(-4)	NZM4-XTVDV	266616			NZM4-XTVDV-60	271511			NZM4-XTVDV-0	279399		
Red-yellow for emergency switching off													
1230PIC-682, 1230PIC-698, sg05315 Symbolphoto  ALockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDVR	260178	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.	NZM1-XTVDVR-60	271512	1 Off	Door interlock • Can not be defeated in the locked OFF position. • Can be modified such that it can be defeated from the outside using a screwdriver, when it is in the unlocked ON position. • Door can be opened in OFF NZM…-XTVDVR-60 • For maximum shaft length 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDVR-0	279400	1 Off	Circuit breaker can also be installed in a horizontal position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDVR	260180			NZM2-XTVDVR-60	271513			NZM2-XTVDVR-0	279401		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDVR	260182			NZM3-XTVDVR-60	271514			NZM3-XTVDVR-0	279402		
	NZM4(-4), N(S)4(-4)	NZM4-XTVDVR	266618			NZM4-XTVDVR-60	271515			NZM4-XTVDVR-0	279403		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Compact circuit breakers, switch disconnectors 4.10
Door coupling rotary handles
NZM1, NZM2, NZM3, NZM4

Door coupling rotary handles
NZM1, NZM2, NZM3, NZM4

1230PIC-153 Symbolphoto

	For use with	Standard Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Extension shaft					
UL/CSA certification not required					
400 mm max. mounting depth	NZM1(-4), PN1(-4), NZM1/2-XV4 N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)		261232	1 Off	Length 290 mm, can be cut to required length.
	NZM3(-4), PN3(-4), NZM3/4-XV4 N(S)3(-4) NZM4(-4), N(S)4(-4)		261234		
600 mm max. mounting depth	NZM1(-4), PN1(-4), NZM1/2-XV6 N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)		260191		Length 425 mm, can be cut to required length.
	NZM3(-4), PN3(-4), NZM3/4-XV6 N(S)3(-4) NZM4(-4), N(S)4(-4)		260193		

Door coupling rotary handle with key lock
NZM1, NZM2, NZM3, NZM4

1230PIC-1159 Symbolphoto

1230PIC-1160 Symbolphoto

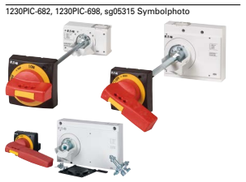
1230PIC-1161 Symbolphoto

1230PIC-1162 Symbolphoto

	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Door coupling rotary handle with key lock					
Door coupling rotary handle for operating the switch through a closed control panel door.					
Standard, black/grey					
Lockable in position 0 using cylinder lock and key withdrawable Also possible: lockable on the 0 position on the handle using up to 3 padlocks With door interlock Not defeatable in the locked OFF and ON positions with padlock on the handle. Can be modified in the unlocked ON position. Can be modified such that it can be defeated from the outside using a screwdriver. Door to be opened in the OFF position when not locked. External warning plate/designation label can be clipped on. Complete including rotary drive and coupling parts. Extension shaft additionally required. obtainable in two lengths.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XTVDKL	172528	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position. Cannot be combined with: • Remote operator • Side panel mounting • Mechan. interlock • Insulating surround
		NZM1-XTVDKLR	172529		
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XTVDKL	172530	1 Off	
		NZM2-XTVDKLR	172531		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XTVDKL	172532	1 Off	
		NZM3-XTVDKLR	172533		
	NZM4(-4), N(S)4(-4)	NZM4-XTVDKL	172534	1 Off	
		NZM4-XTVDKLR	172535		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Standard Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	For maximum shaft length 60 mm Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Extremely narrow fittings Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Door coupling rotary handles												
Complete including rotary drive and coupling parts. Extension shaft additionally required. Degree of protection IP66/UL/CSA type 4X, 12. Difference to normal IEC handles: Door opening only possible with active rotation beyond the 0 position.												
Standard, black/grey												
1230PIC-681, sg06315, 1230PIC-1419 Symbolphoto Lockable in 0 position on handle. With door interlock.	NZM1 N1	NZM1-XTVD-NA	271445	1 Off	Door interlock • Can not be defeated in the locked OFF position. • Door opening with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on	-		-	-	-		-
	NZM2, N2	NZM2-XTVD-NA	271446			-			-			
	NZM3, N3	NZM3-XTVD-NA	271447			-			-			
	NZM4, N4	NZM4-XTVD-NA	271448			-			-			
1230PIC-681, sg06115, 1230PIC-1419 Symbolphoto Lockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position	NZM1, N(S)1	NZM1-XTVDV-NA	100683		Door interlock • Can not be defeated in the locked OFF position. • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on.	NZM1-XTVDV-60-NA	100667	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock NZM…-XTVDV-60-NA • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDV-0-NA	100675		Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Cannot be combined with mechanical interlock NZM…-XTVDV-0-NA For extremely narrow fittings • With special short extension shaft • Cannot be combined with additional handle NZM...-XDZ • AExternal warning plate/ designation label can be clipped on.
	NZM2, N(S)2	NZM2-XTVDV-NA	100684			NZM2-XTVDV-60-NA	100668			NZM2-XTVDV-0-NA	100676	
	NZM3, N(S)3	NZM3-XTVDV-NA	100685			NZM3-XTVDV-60-NA	100669			NZM3-XTVDV-0-NA	100677	
	NZM4, N(S)4	NZM4-XTVDV-NA	100686			NZM4-XTVDV-60-NA	100670			NZM4-XTVDV-0-NA	100678	
Red-yellow for emergency switching off												
 1230PIC-682, 1230PIC-698, sg05315 Symbolphoto Lockable on handle and switch with up to 3 padlocks. Lockable in 0 position on handle. With door interlock. Lockable on switch in 0 position	NZM1, N(S)1	NZM1-XTVDVR-NA	271449	1 Off	Door interlock • Can not be defeated in the locked OFF position. • Door opening with active rotation beyond the 0 position. • Cannot be combined with mechanical interlock • External warning plate/ designation label can be clipped on.	NZM1-XTVDVR-60-NA	100671	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Door can be opened in OFF NZM…-XTVDVR-60 • For a maximum shaft length of 60 mm • Without shaft support • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.	NZM1-XTVDVR-0-NA	100679	1 Off	Door interlock • Can not be defeated in the locked OFF position • Door opening possible with active rotation beyond the 0 position. Can be defeated from the outside using a screwdriver. • Door can be opened in OFF NZM…-XTVDVR-0 • For extremely narrow fittings • With special short extension shaft • Cannot be combined with additional handle NZM...-XDZ • External warning plate/ designation label can be clipped on.
	NZM2, N(S)2	NZM2-XTVDVR-NA	271450			NZM2-XTVDVR-60-NA	100672			NZM2-XTVDVR-0-NA	100680	
	NZM3, N(S)3	NZM3-XTVDVR-NA	271451			NZM3-XTVDVR-60-NA	100673			NZM3-XTVDVR-0-NA	100681	
	NZM4, N(S)4	NZM4-XTVDVR-NA	271452			NZM4-XTVDVR-60-NA	100674			NZM4-XTVDVR-0-NA	100682	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Rotary handles
NZM...-XDV

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Rotary handle on circuit breaker					
Complete with rotary drive					
Standard, black/grey					
1230PIC-759, 1230PIC-819, sg07015 Symbolphoto Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDV	260125	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDV	260127		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDV	260129		
	NZM4(-4), N(S)4(-4)	NZM4-XDV	266608		
1230PIC-760, sg07215, sg07015 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVG	285247	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVG	285248		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVG	165716		
	NZM4(-4), N(S)4(-4)	NZM4-XDVG	165718		
Red-yellow for emergency switch off					
1230PIC-762, 1230PIC-820, sg07115 Symbolphoto Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVR	260135	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVR	260137		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVR	260140		
	NZM4(-4), N(S)4(-4)	NZM4-XDVR	266610		
1230PIC-761, sg07315, sg07115 Symbolphoto Lockable in 0 position on switch with up to 3 padlocks.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDVGR	285249	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDVGR	285280		
	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDVGR	165717		
	NZM4(-4), N(S)4(-4)	NZM4-XDVGR	165719		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Rotary handles with key lock
NZM...XDKL

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Rotary handles with key lock					
Complete with rotary drive					
Standard, black/grey					
1230PIC-1272 Symbolphoto Lockable in position 0 using cylinder lock and key withdrawable	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDKL	172536	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position. Cannot be combined with: • Remote operator • Side panel mounting • Mechan. interlock • Insulating surround
1230PIC-1273 Symbolphoto	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDKL	172537	1 Off	
1230PIC-1274 Symbolphoto	NZM3(-4), PN3(-4), N(S)3(-4)	NZM3-XDKL	172538	1 Off	
1230PIC-1275 Symbolphoto	NZM4(-4), N(S)4(-4)	NZM4-XDKL	172539		

Information relevant for export to North America

IP66
UL/CSA Type 4X, Type 12

Rotary handles with door interlock
NZM...XDTV

	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
Rotary handles on switch with door interlock					
Complete with rotary drive and insulating surround					
Standard, black/grey					
1230PIC-840 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. Also available with door interlock e.g. for MCC service distribution.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDTV	260131	1 Off	Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDTV	260133		
Red-yellow for emergency switching off					
1230PIC-758 Symbolphoto Lockable in 0 position on handle with up t 0 3 padlocks. Also available with door interlock e.g. for MCC service distribution.	NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XDTVR	260142	1 Off	
	NZM2(-4), PN2(-4), N(S)2(-4)	NZM2-XDTVR	260144		

Rotary handles on switch with door interlock for UL/CSA approved NA switches

Difference to normal IEC handles: Door opening only possible with active rotation beyond the 0 position.
Complete with rotary drive and insulating surround

Standard, black/grey					
1230PIC-840 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. Also available with door interlock e.g. for MCC service distribution.	NZM1, N(S)1	NZM1-XDTV-NA	271453	1 Off	Door interlock • In the ON position, can be defeated from the outside using a 1 mm pin • Can not be defeated in the locked OFF and ON positions • Door opening only possible with active rotation beyond the 0 position. • Can only be switched ON when the door is closed • Cannot be combined with mechanical interlock Circuit breaker can also be installed in a lying position 90° left/right, with the handle still in the same position.
	NZM2, N(S)2	NZM2-XDTV-NA	271454		
Red-yellow for emergency switching off					
1230PIC-758 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks. Also available with door interlock e.g. for MCC service distribution.	NZM1, N(S)1	NZM1-XDTVR-NA	271455	1 Off	
	NZM2, N(S)2	NZM2-XDTVR-NA	271456		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

Main switch assembly kit
NZM...XHB...

	Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack
Main switch assembly kit					
Equipment supplied: • Door coupling rotary handle • External warning plate/designation label in German/English • Extension shaft NZM...-XV4 • Black and yellow flash For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered. Other external warning plates/designation labels can be clipped on. Degree of protection IP66/UL/CSA type 4X, 12.					
With black door coupling rotary handle					
1230PIC-739 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position. With door interlock	-	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB	266626	1 Off
	-	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB	266627	
	-	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB	266628	
	-	NZM4(-4) N(S)4(-4)	NZM4-XHB	271779	
With red door coupling rotary handle for use of switch as emergency switching off device to IEC/EN 60204-1					
1230PIC-698 Symbolphoto Lockable in 0 position on handle with up to 3 padlocks. Lockable door as additional feature, locking facility on circuit breaker in 0 position:	-	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHBR	266632	
	-	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHBR	266633	
	-	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHBR	266634	
	-	NZM4(-4) N(S)4(-4)	NZM4-XHBR	271842	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit

Equipment supplied:
- Door coupling rotary handle
- External warning plate/designation label in German/English
- Extension shaft NZM...-XV4
- Black and yellow flash

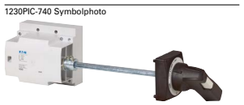
For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

NZM4-XS types

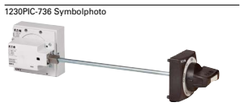
For side wall installation
Actuation of the switch on the control panel side wall
Switch mounting on mounting plate

Standard, black/grey

1230PIC-740 Symbolphoto



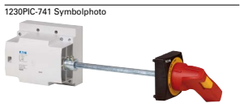
1230PIC-736 Symbolphoto



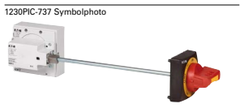
Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack
Lockable in 0 position on handle with up to 3 padlocks, with adequate modification also in I position.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XS-L	266641	1 Off
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XS-L	266642	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XS-L	266643	
		NZM4(-4) N(S)4(-4)	NZM4-XS-L	289806	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XS-R	266644	
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XS-R	266645	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XS-R	266646	
		NZM4(-4) N(S)4(-4)	NZM4-XS-R	289807	

Red-yellow for emergency switching off

1230PIC-741 Symbolphoto



1230PIC-737 Symbolphoto



Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack
Lockable in 0 position on handle with up to 3 padlocks.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSR-L	266653	1 Off
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSR-L	266654	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XSR-L	266655	
		NZM4(-4) N(S)4(-4)	NZM4-XSR-L	289808	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4	NZM1-XSR-R	266656	
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSR-R	266657	
		NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XSR-R	266658	
		NZM4(-4) N(S)4(-4)	NZM4-XSR-R	289809	

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit for side wall installation with mounting bracket

For direct mounting of circuit breaker and handle in the side wall of the control cabinet.
Equipment supplied:
- Door coupling rotary handle
- Special short extension shaft
- External warning plate/designation label in German/English
- Mounting bracket
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

Standard, black/grey

1230PIC-727 Symbolphoto

Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America
Lockable in 0 position, with adequate modification also in I position. Minimum clearance between control panel side walls and circuit breaker is defined by mounting bracket. Extension cannot be used	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSM-L	266663	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking; UL File No. E140305; UL CCN DIHS; CSA File No. 022086; CSA Class No. 1437-01; NA Certification: UL Listed, CSA certified; Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSM-L	266664	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSM-R	266665	
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSM-R	266666	

Red-yellow for emergency switching off

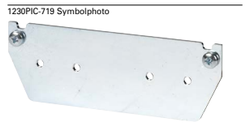
1230PIC-728 Symbolphoto

Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America
Lockable in 0 position on handle. Minimum clearance between control panel side walls and circuitbreaker is defined by mounting bracket. Extension cannot be used.	For operation on the left	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XSRM-L	266671	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking; UL File No. E140305; UL CCN DIHS; CSA File No. 022086; CSA Class No. 1437-01; NA Certification: UL Listed, CSA certified; Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
		NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XSRM-L	266672	
	For operation on the right	NZM1(-4) PN1(-4), N(S)1(-4	NZM1-XSRM-R	266673	
		NZM2(-4) PN2(-4), N(S)2(-4	NZM2-XSRM-R	266674	

Additional plate

For fitting to the mounting bracket when using neutral conductor or PE conductor terminals K25, K50, K95 or K150.

1230PIC-719 Symbolphoto



Model	For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America
-	-	NZM1, NZM1-4, N1, N1-4, PN1, PN1-4, NS1, NZM2, NZM2-4, N2, N2-4, PN2, PN2-4, NS2, NZM1-NA, NZM2-NA	NZM1/2-XZB	266676	1 Off	UL/CSA certification not required

Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America

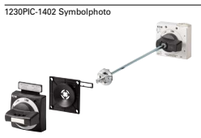
Main switch assembly kit with additional rotary handle

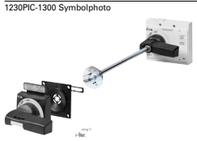
Main switch assembly kit with additional rotary handle for switching with opened control panel door.
Equipment supplied:
- Door coupling rotary handle
- Additional rotary handle on switch with "Deliberate Action" operation
- Extension shaft NZM…-XV6 for mounting depth 600 mm, NZM1/2-XV4 with NZM1 for mounting depth 400 mm
- External warning plate/designation label in German/English
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

With black door coupling rotary handle

1230PIC-899 Symbolphoto


1230PIC-1402 Symbolphoto


1230PIC-1300 Symbolphoto

1230PIC-1302 Symbolphoto

Lockable in 0 position on handle with up to 3 padlocks, can also be modified for the I position.
Lockable door as additional feature, locking facility on circuit breaker in 0 position.

IEC	NZM1(-4) PN1(-4), N1(-4)	NZM1-XHB-DA	125956	1 Off
UL/CSA	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DA-NA	125958	
IEC	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DA	116895	
UL/CSA	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DA-NA	116897	
IEC	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DA	118988	
UL/CSA	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DA-NA	119000	
IEC	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DA	119002	
UL/CSA	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DA-NA	119004	

Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No. E140305
UL CCN DIHS
CSA File No. 022086
CSA Class No. 1437-01
NA Certification: UL Listed, CSA certified
Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2, No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified
Degree of Protection	IEC: IP66, UL/CSA Type 4X, 12

Model	For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Information relevant for export to North America

Main switch assembly kit with additional rotary handle

Main switch assembly kit with additional rotary handle for switching with opened control panel door.
Equipment supplied:
- Door coupling rotary handle
- Additional rotary handle on switch with "Deliberate Action" operation
- Extension shaft NZM…-XV6 for mounting depth 600 mm, NZM1/2-XV4 with NZM1 for mounting depth 400 mm
- External warning plate/designation label in German/English
- Black and yellow flash

For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered.
Other external warning plates/designation labels can be clipped on.
Degree of protection IP66/UL/CSA type 4X, 12.

With red door coupling rotary handle for use of switch as emergency switching off device

1230PIC-900 Symbolphoto

1230PIC-1403 Symbolphoto

1230PIC-1301 Symbolphoto

1230PIC-1303 Symbolphoto

Lockable in 0 position on handle with up to , 3 padlocks.
With door interlock and lockable on switch in 0 position.

IEC	NZM1(-4) PN1(-4), N1(-4)	NZM1-XHB-DAR	125957	1 Off
UL/CSA	NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DAR-NA	125959	
IEC	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DAR	116896	
UL/CSA	NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XHB-DAR-NA	116898	
IEC	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DAR	118989	
UL/CSA	NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XHB-DAR-NA	119001	
IEC	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DAR	119003	
UL/CSA	NZM4(-4) PN4(-4), N(S)4(-4)	NZM4-XHB-DAR-NA	119005	

Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No. E140305
UL CCN DIHS
CSA File No. 022086
CSA Class No. 1437-01
NA Certification: UL Listed, CSA certified
Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit with additional rotary handle

External warning plate/designation label can be clipped on.
For enhanced busbar tag shroud on the incomer side, please order IP2X protection against contact with a finger.
IP66; UL/CSA Type 4X, Type 12.

Handle black + additional handle black, shaft 600 mm

1230PIC-899 Symbolphoto

NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DA-V6	144905	1 Off
	NZM1-XHB-DA-V6-NA	144906	

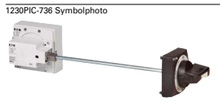
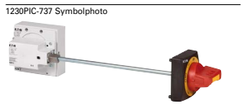
Handle red + additional handle red, shaft 600 mm

1230PIC-900 Symbolphoto

NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XHB-DAR-V6	144907	1 Off
	NZM1-XHB-DAR-V6-NA	144908	

Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No. E140305
UL CCN DIHS
CSA File No. 022086
CSA Class No. 1437-01
NA Certification: UL Listed, CSA certified
Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12

Main switch assembly kit, Rear-mounted drives
NZM...-XS..., NZM...-XRAV...

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Main switch assembly kit, bottom					
External warning plate/designation label can be clipped on. For enhanced busbar tag shroud on the incomer side, please order IP2X protection against contact with a finger. IP66; UL/CSA Type 4X, Type 12.					
 1230PIC-736 Symbolphoto	UL/CSA, IEC	NZM1-XS-U	110106	1 Off	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking. UL File No. E140305. UL CCN DIHS. CSA File No. 022086. CSA Class No. 1437-01. NA Certification: UL Listed, CSA certified. Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
 1230PIC-737 Symbolphoto	UL/CSA, IEC	NZM1-XSR-U	110107	1 Off	
Rear-mounted drives					
For direct rear connection of the switch to the side of the control panel or control panel door. Switch actuation on rear through side wall or control panel door. For switch with toggle lever. For enhanced protection against direct contact on the incomer side, IP2X protection against contact with a finger can be ordered. Degree of protection IP66, UL/CSA type 4X, 12.					
Standard, black/grey					
1230PIC-726 Symbolphoto; Lockable in 0 position on handle with up to 3 padlocks.	NZM1, N1, NS1, PN1	NZM1-XRAV	107245	1 Off; External warning plate can be clipped on	Product Standards: UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking. UL File No. E140305. UL CCN DIHS. CSA File No. 022086. CSA Class No. 1437-01. NA Certification: UL Listed, CSA certified. Degree of Protection: IEC: IP66, UL/CSA Type 4X, 12
	NZM1-4, N1-4, PN1-4	NZM1-4-XRAV	107246		
	NZM2, N2, NS2, PN2	NZM2-XRAV	107247		
	NZM2-4, N2-4, PN2-4	NZM2-4-XRAV	107248		
Red-yellow for emergency switching off					
Lockable in 0 position on handle with up to 3 padlocks.	NZM1, N1, NS1, PN1	NZM1-XRAVR	107249	1 Off; External warning plate can be clipped on	
	NZM1-4, N1-4, PN1-4	NZM1-4-XRAVR	107260		
	NZM2, N2, NS2, PN2	NZM2-XRAVR	107261		
	NZM2-4, N2-4, PN2-4	NZM2-4-XRAVR	107262		

Side-mounted handle
NZM...-XSH...-NA

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Side mounted handle					
Complete kit, includes handle, mechanical system, and Bowden cable (Length: 48, 72, 84 and 120 Inch).					
UL/CSA Type 4X, Type 12	NZM2…-NA, NS2…-NA	NZM2-XSH-12-48-NA	155482	1 Off; Lockable in the 0 position using up to 3 padlocks on the handle. For 1 door on an American-style control panel (door plus wide bar next to door)	Caution! Intended exclusively for use outside the scope of application of IEC/EN 60947.
		NZM2-XSH-12-84-NA	155483		
		NZM2-XSH-12-120-NA	155484		
	NZM3…-NA, NS3…-NA	NZM3-XSH-12-48-NA	155488		
		NZM3-XSH-12-84-NA	155489		
		NZM3-XSH-12-120-NA	155500		
	NZM4…-NA, NS4…-NA	NZM4-XSH-12-48-NA	155504		
		NZM4-XSH-12-72-NA	155505		
		NZM4-XSH-12-120-NA	155506		
UL/CSA Type 4X	NZM2…-NA, NS2…-NA	NZM2-XSH-4X-48-NA	155485	1 Off; Lockable in the 0 position using up to 3 padlocks on the handle. For 1 door on an American-style control panel (door plus wide bar next to door)	Caution! Intended exclusively for use outside the scope of application of IEC/EN 60947.
		NZM2-XSH-4X-84-NA	155486		
		NZM2-XSH-4X-120-NA	155487		
	NZM3…-NA, NS3…-NA	NZM3-XSH-4X-48-NA	155501		
		NZM3-XSH-4X-84-NA	155502		
		NZM3-XSH-4X-120-NA	155503		
	NZM4…-NA, NS4…-NA	NZM4-XSH-4X-48-NA	155507		
		NZM4-XSH-4X-72-NA	155508		
		NZM4-XSH-4X-120-NA	155509		

1230PIC-1424 Symbolphoto

1230PIC-1406 Symbolphoto

1230PIC-1425 Symbolphoto

1230PIC-1404 Symbolphoto

1230PIC-1405 Symbolphoto

1230PIC-1426 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Remote operators

For remote switching of circuit breakers and switch disconnectors.
ON and OFF switching and resetting by means of two-wire or three-wire control.
Local switching by hand possible.
Lockable in the 0 position of the remote operator with up to 3 padlocks (hasp thickness: 4 – 8 mm).
When mounting the remote drive NZM2(3)-XR(D)... on 4 pole switch an additional cover NZM...- XAVPR is required.

Closing delay 110 – 170 ms, opening delay 110 – 170 ms

1230PIC-817 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4) N(S)2(-4)	110 - 130 V 50/60 Hz	NZM2-XRD110-130AC	115390	1 Off	Sliding switch for „Auto" or „Manual" Max. number auxiliary contacts: 2 standard auxiliary contacts, 1 trip-indicating auxiliary switches Cannot be combined with switch-disconnector PN... Cannot be combined with mechanical interlock. Do not install M22-CK11(20/02) dual auxiliary contacts in the center auxiliary contact slot in NZM2-XRD. 1) Not UL/CSA approved
	208 - 240 V 50/60 Hz	NZM2-XRD208-240AC	115391		
	380 - 440 V 50/60 Hz[1)]	NZM2-XRD380-440AC	115392		
	24 - 30 V DC	NZM2-XRD24-30DC	115393		
	110 - 130 V DC	NZM2-XRD110-130DC	115394		
	220 - 250 V DC	NZM2-XRD220-250DC	115395		

Closing delay 60 – 100 ms, opening delay 300 – 3000 ms

Can be synchronized

1230PIC-769 Symbolphoto

1230PIC-1434 Symbolphoto

1230PIC-1414 Symbolphoto

For use with	Rated control voltage U_s V	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4) N(S)2(-4)	110 - 130 V 50/60 Hz	NZM2-XR110-130AC	259830		Cannot be combined with switch disconnector PN... Dual auxiliary switch M 22-CK11 (20/02) can not be combined with remote operator NZM3-XR...
	208 - 240 V 50/60 Hz	NZM2-XR208-240AC	259832		
	380 - 440 V 50/60 Hz	NZM2-XR380-440AC	259834		
	24 - 30 V DC	NZM2-XR24-30DC	259836		
	48 - 60 V DC	NZM2-XR48-60DC	259838		
	110 - 130 V DC110 - 130 V DC	NZM2-XR110-130DC	259840		
	220 - 250 V DC	NZM2-XR220-250DC	259842		
NZM3(-4) N(S)3(-4)	110 - 130 V 50/60 Hz	NZM3-XR110-130AC	259848		
	208 - 240 V 50/60 Hz	NZM3-XR208-240AC	259850		
	380 - 440 V 50/60 Hz	NZM3-XR380-440AC	259852		
	24 - 30 V DC	NZM3-XR24-30DC	259854		
	48 - 60 V DC	NZM3-XR48-60DC	259856		
	110 - 130 V DC110 - 130 V DC	NZM3-XR110-130DC	259858		
	220 - 250 V DC	NZM3-XR220-250DC	259860		
NZM4(-4) N(S)4(-4)	110 - 130 V 50/60 Hz	NZM4-XR110-130AC	266684		
	208 - 240 V 50/60 Hz	NZM4-XR208-240AC	266685		
	380 - 440 V 50/60 Hz	NZM4-XR380-440AC	266686		
	24 - 30 V DC	NZM4-XR24-30DC	266691		
	48 - 60 V DC	NZM4-XR48-60DC	266692		
	110 - 130 V DC110 - 130 V DC	NZM4-XR110-130DC	266693		
	220 - 250 V DC	NZM4-XR220-250DC	266694		

Information relevant for export to North America

Product Standards	UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking
UL File No.	E140305
UL CCN	DIHS
CSA File No.	022086
CSA Class No.	1437-01
NA Certification	UL Listed, CSA certified

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes

Plug screw terminal for remote operator

Plug with screw terminals for remote operator.

wa_sg06118 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM…-XR…	NZM-XRS	180429	1 Off	

Cover, 4 pole for remote operator

Additional shroud for mounting the NZM2(3)-XR(D)... on a 4 pole switch is required.

1230PIC-732 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2-4, N2-4	NZM2-XAVPR	266677	1 Off	-
N2-4-...-DC	NZM2-XAVPR-S1-DC	158477		
NZM3-4, N3-4	NZM3-XAVPR	266678	1 Off	
N3-4-...-DC	NZM3-XAVPR-S1-DC	158478		

Sealing device, for NZM2-XRD

Manual operation possible only after removing seal.

1230PIC-1429 Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
NZM2(-4) N(S)2(-4)	NZM2-XRDPL	137305	1 Off	Suitable for remote operator NZM2-XRD

Enclosure Cover

Degree of protection IP65
For increasing the mounting depth by 105 mm
For switching devices that shall not be operated by laymen
Transparent
Also usable for NZM remote operators

vt19318_r Symbolphoto

For use with	Part no. Article no. when ordering separately	Article no.	Std. pack	Notes
CI44... CI45... CI48...	NZM-RTR	194557	1 Off	Width: 265 mm Height: 253 mm

External warning plate/designation label

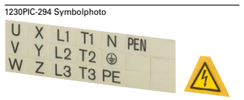
115A023 Symbolphoto

	Model	For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes
Main switch – open in 0 position	german/english	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	ZFS61/62-NZM7	272525	10 Off	A bilingual external warning plate/ designation label in German/ English is already included in the main switch assembly kit.
	german		ZFS61-NZM7	051089		
	english		ZFS62-NZM7	065957		
	french		ZFS63-NZM7	065958		
	chinese/ english		ZFS82-NZM	104910	1 Off	
	chinese		ZFS83-NZM	105945		
Symbol	Circuit breaker symbol		ZFS-LS-NZM	104829		
	Switch disconnector symbol		ZFS-LTS-NZM	104828		
	Disconnector symbol		ZFS-TS-NZM	115365		
Blanko	Blank (for engraving or printing)		ZFS60-NZM7	065896	10 Off	
NA main switch – open in 0 position	english/spanish	NZM1(-4), PN1(-4), N(S)1(-4), NZM2(-4), PN2(-4), N(S)2(-4), NZM3(-4), PN3(-4), N(S)3(-4), NZM4(-4), N(S)4(-4)	ZFS61/62-NZM-NA	144901	10 Off	A bilingual external warning plate/ designation label in German/ English is already included in the main switch assembly kit.
	english		ZFS62-NZM-NA	144902		
			ZFS62/77-NZM-NA	144903		
	english/ french		ZFS62/63-NZM-NA	144904		

Lightning symbol

Including terminal marking for main switch

1230PIC-294 Symbolphoto



	Model	For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes
	small	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	BPF-NZM7	217294	10 Off	Included as standard in main switch assembly kit. Marking of the input side of the switch is possible.
	large	NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	BPF-NZM10	231363		

Additional handle

Enables switching when control panel door is open

1230PIC-753 Symbolphoto

For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes	
NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	NZM1/2-XDZ	266621	1 Off	Push-fits on to the extension shaft. 100 mm free extension shaft required. Cannot be combined with door coupling rotary handles NZM...-XT...-60 or NZM...-XT...0.	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4)	NZM3/4-XDZ	266622			

Insulating surround

For toggle levers, rotary handles with rotary drive and remote operators. Degree of protection IP40

1230PIC-679 Symbolphoto

1230PIC-691 Symbolphoto

For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes	
NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XBR	260195	1 Off	For rectangular cut-out on doors and enclosures with material thicknesses of 1.5 – 5 mm. External warning plate/ designation label can be clipped on. NZM4-XBR can not be combined with rotary handle with NZM2(-4) rotary mechanism	Product Standards IEC60947, CE marking
NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XBR	260197			
NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XBR	284645			
NZM4(-4) N(S)4(-4)	NZM4-XBR	284646			

For toggle lever, narrow. Degree of protection IP40

1230PIC-722 Symbolphoto

For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes	
NZM1(-4), PN1(-4), N(S)1(-4)	NZM1-XBRS	115274		For rectangular cutouts on doors and enclosures with a material thickness of 1 - 3 mm. Clip-in external warning plate/ marking plate. Switches with slim insulating surrounds can be placed in a row next to each other. The required minimum clearance must be observed when doing so	Product Standards IEC60947, CE marking
NZM2(-4), NZM3(-4) PN2(-4), N(S)2(-4) PN3(-4), N(S)3(-4)	NZM2/3-XBRS	115275			
NZM4(-4) N(S)4(-4)	NZM4-XBRS	115277			

Toggle lever locking device

Lockable in Off position with up to three padlocks (hasp thickness 4 – 8 mm).

sg00711 Symbolphoto

1230PIC-684 Symbolphoto

For use with	Part no. (Article no. when ordering separately)	Article no.	Std. pack	Notes	
NZM1(-4), NZM1(-1), PN1(-4), N(S)1(-4)	NZM1-XKAV	260199	1 Off	Cannot be combined with insulating surround.	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4)	NZM2/3-XKAV	260201			

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Spacers

Enables fast and attractively priced offsetting of varying construction sizes with/without rotary handle or remote operator to the same front depth.

1230PIC-717 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4)	NZM1/2-XAB	260203	1 Off	Grid depth 17.5 mm, M4 thread One set contains 4 spacers Maximum component fitting: NZM1: 4 off per fixing screw, NZM2: 2 off per fixing screw, 2 (NZM1) or 4 (NZM2) fixing screws contained per switch	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM3(-4) PN3(-4), N(S)3(-4) NZM4(-4) N(S)4(-4)	NZM3-XAB	260211	1 Off	Grid depth 17.5 mm, M5 thread One set contains 4 spacers NZM3, NZM4: 1 off per fixing screw 4 fixing screws per switch included	

Clips

Allows switches to be clipped onto DIN rails.

1230PIC-723 Symbolphoto

For use with	Part no.	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4) PN1(-4) N(S)1(-4)	NZM1-XC35	260213	1 Off	For 35 mm top-hat rails. Cannot be combined with plug-in units	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4) PN2(-4) N(S)2(-4)	NZM2-XC75	260215		For 75 mm top-hat rails. Cannot be combined with remote operator and plug-in units.	

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America

Mechanical interlock for (door coupling) rotary handles

1230PIC-766 Symbolphoto

sg07515 Symbolphoto

sg07415 Symbolphoto

sg07415 Symbolphoto

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
NZM1(-4) PN1(-4), N(S)1(-4)	NZM1-XMV	281581	1 Off	Cannot be combined with NZM…-XTV…-NA door coupling rotary handles. At least 2 interlock modules are required in order to assemble a mechanical interlock. Possible combinations and interlock versions Engineering Order Bowden cable separately	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
NZM2(-4) PN2(-4), N(S)2(-4)	NZM2-XMV	281582			
NZM3(-4) PN3(-4), N(S)3(-4)	NZM3-XMV	281583			
NZM4(-4) N(S)4(-4)	NZM4-XMV	281584			

Bowden cables

For mechanical interlock for (door coupling) rotary handles

1230PIC-807 Symbolphoto

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Length: 225 mm	NZM1(-4), PN1(-4), N(S)1(-4) NZM2(-4), PN2(-4), N(S)2(-4) NZM3(-4), PN3(-4), N(S)3(-4) NZM4(-4), N(S)4(-4) NZM-XBZ225	281585	1 Off	Selection and combinations of Bowden cables	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking UL File No. E140305 UL CCN DIHS CSA File No. 022086 CSA Class No. 1437-01 NA Certification UL Listed, CSA certified
Length: 600 mm	NZM-XBZ600	281586			
Length: 1000 mm	NZM-XBZ1000	281587			

Mechanical interlock / Paralleling mechanism
NZM...XMV(R)(L), NZM-XBZ...

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes	Information relevant for export to North America
Mechanical interlock for remote operator					
For 2 switches of the same or different construction size with opposed operation. Adjacent mounting.					
NZM2(-4), N(S)2(-4) +NZM2(-4), N(S)2(-4)	NZM2-XMVR	104543	1 Off	Contains parts for both switch sides. Extension shaft additionally required. Maximum switch spacing Can not be combined with rotary handles, door coupling rotary handles, early-make auxiliary contacts, and direct-switching remote operator NZM2-XRD.	-
NZM2(-4), N(S)2(-4) +NZM3(-4), N(S)3(-4)	NZM2/3-XMVR	104544			
NZM3(-4), N(S)3(-4) +NZM3(-4), N(S)3(-4)	NZM3-XMVR	104545			
NZM3(-4), N(S)3(-4) +NZM4(-4), N(S)4(-4)	NZM3/4-XMVR	104546			
NZM4(-4), N(S)4(-4) +NZM4(-4), N(S)4(-4)	NZM4-XMVR	104547			
For 2 switches of the same or different construction size with opposed operation. Extra long Bowden cable for mounting one above the other or in adjacent enclosures.					
NZM2(-4), N(S)2(-4) +NZM2(-4), N(S)2(-4)	NZM2-XMVRL	104548	1 Off	Contains parts for both switch sides. Extension shaft additionally required. Maximum switch spacing Can not be combined with rotary handles, door coupling rotary handles, early-make auxiliary contacts, and direct-switching remote operator NZM2-XRD.	-
NZM2(-4), N(S)2(-4) +NZM3(-4), N(S)3(-4)	NZM2/3-XMVRL	104549			
NZM3(-4), N(S)3(-4) +NZM3(-4), N(S)3(-4)	NZM3-XMVRL	104550			
NZM3(-4), N(S)3(-4) +NZM4(-4), N(S)4(-4)	NZM3/4-XMVRL	104551			
NZM4(-4), N(S)4(-4) +NZM4(-4), N(S)4(-4)	NZM4-XMVRL	104552			

1230PIC-734 Symbolphoto

Paralleling mechanism					
Simultaneous actuation of 2 PN switch disconnectors of the same type mounted side-by-side.					
PN1(-4) + PN1(-4)	PN1-XPA	283471	1 Off	**PN1, PN2** • 1 x rotary handle on circuit (-XD) supplied. • 1 x door coupling rotary handle (-XTVD) supplied.	Not UL/CSA approved
PN2(-4) + PN2(-4)	PN2-XPA	283472			
PN3(-4) + PN3(-4)	PN3-XPA	283473		**PN3** • 1 × rotary handle on switch (not lockable) supplied. • 1 × door coupling rotary handle (not lockable) supplied. • Not suitable for use as a main switch.	

1230PIC-749 Symbolphoto

1230PIC-750 Symbolphoto

Earth-fault release
NZM...FI

Number of poles	Rated current = Rated uninterrupted current $I_n = I_u$ A	Setting range: Overload releases $I_r = I_n x...$ A	Short-circuit releases delayed $I_{sd} = I_r x \ldots$	Short-circuit releases Non-delayed $I_i = I_n x...$	Part no.	Article no.	Std. pack
Circuit breakers with earth-fault release, 3 pole For apparatus with power electronics, such as power inverters and frequency inverters							
AC/DC sensitive according to core-balance principle in range of 0 – 100 kHz residual-current frequency. Not UL/CSA approved. Suitable for use in three-phase systems. Rated operating voltage: 400 V (50/60 Hz) Rated fault current IΔn = 0.03 A Internal power supply U_e = 50 - 400 V Turnkey combination of current-limiting circuit breaker and residual-current device. Adjusting buttons can be sealed. Depending on the cable manufacturer up to 240 mm² can be connected.							
High switching capacity 150 kA; 415 V 50/60 Hz							
3 pole	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30	158530	1 Off
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30	129710	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30	112627	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30	112628	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30	112629	
	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30-BT	158531	
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30-BT	129711	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30-BT	116304	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30-BT	116305	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30-BT	116306	
	100	80 - 100	600 - 1000	6 - 10	NZMH2-A100-FIA30-500AC	184959	
	125	100 - 125	750…1250	6 - 10	NZMH2-A125-FIA30-500AC	184960	
	160	125 - 160	960…1600	6 - 10	NZMH2-A160-FIA30-500AC	184961	
	200	160 - 200	1200…2000	6 - 10	NZMH2-A200-FIA30-500AC	184962	
	250	200 - 250	1500…2500	6 - 10	NZMH2-A250-FIA30-500AC	184963	

WA_SG168521_L Symbolphoto

For use with	Number of conductors	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes

Earth-fault release

To IEC/EN 60947-2
Not UL/CSA approved
Suitable for use in three- and single-phase systems

Pulse-current sensitive according to core-balance principle
For 3 and 4 pole NZM1(-4) circuit breakers and N1(-4)
Switch disconnectors, dependant on mains power U_e = 200 … 415 V 50/60 Hz

Mounting on right side up to I_n = 160 A at I_{Cu} = 50 kA

1230PIC-799 Symbolphoto

1230PIC-864 Symbolphoto

1230PIC-841 Symbolphoto

1230PIC-865 Symbolphoto

1230PIC-896 Symbolphoto

1230PIC-812 Symbolphoto

Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N(S)1	3 pole	NZM1-XFI30R	104603	1 Off	At $I_{\Delta n}$ = 0.03 A: delay time t_v always fixed at 10 ms. Alarm indication > 30 % $I_{\Delta n}$ by yellow LED. Trip indication by up to 2 auxiliary contacts (HIAFI) can be retrofitted: N/O = M22-K01, NC = M22-K10 are reset with the reset toggle lever. If the trip-indicating auxiliary contact in the fault current block is used, the NC contacts operates as a N/O contact and the NC contact operates as N/O contacts. Double contact not permissible. Not in combination with insulated enclosure or main switch assembly kit for side wall installation with mounting bracket. NZM1-XFI...R can not be used in combination with lower cover NZM1-XKSA. NZM1-XFI…U not in combination with shunt or undervoltage release, early-make auxiliary contacts. Rated ultimate short-circuit breaking capacity is determined by the fitted NZM1 or NS1, or, lif a switch disconnector N1 is used, by the fitted back-up fuse. Technical data. Adjusting buttons can be sealed.
	NZM1-4 N1-4	4 pole	NZM1-4-XFI30R	104606		
Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N(S)1	3 pole	NZM1-XFI300R	104604		
	NZM1-4 N1-4	4 pole	NZM1-4-XFI300R	104607		
Rated fault current $I_{\Delta n}$ = 0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 A Delay time t_v = 10 - 60 - 150 - 300 - 450 ms	NZM1 N(S)1	3 pole	NZM1-XFIR	104605		
	NZM1-4 N1-4	4 pole	NZM1-4-XFIR	104608		

Bottom assembly up to 100 A

Rated fault current $I_{\Delta n}$ = 0.03 A	NZM1 N(S)1	3 pole	NZM1-XFI30U	104609	1 Off	
	NZM1-4 N1-4	4 pole	NZM1-4-XFI30U	104612		
Rated fault current $I_{\Delta n}$ = 0.3 A	NZM1 N(S)1	3 pole	NZM1-XFI300U	104610		
	NZM1-4 N1-4	4 pole	NZM1-4-XFI300U	104613		
Rated fault current $I_{\Delta n}$ = 0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 A Delay time t_v = 10 - 60 - 150 - 300 - 450 ms	NZM1 N(S)1	3 pole	NZM1-XFIU	104611		
	NZM1-4 N1-4	4 pole	NZM1-4-XFIU	104614		

Mounting below up to 250 A

Pulse-current sensitive according to core-balance principle
For 4 pole circuit breakers NZM2-4 and Switch disconnectors N2-4,
independant of mains voltage U_e = 280 … 690 V 50/60 Hz

1230PIC-812 Symbolphoto

Rated fault current $I_{\Delta n}$ = 0.03 A	NZM2-4 N2-4	4 pole	NZM2-4-XFI30	292343	1 Off	Auxiliary contacts (1 N/O, 1 NC built-in) are reset with the reset button. Not in combination with plug-in units, insulated enclosure or main switch assembly kit for side wall installation with mounting bracket. Rated ultimate short-circuit breaking capacity is determind by fitted NZM2 and, when using a switch-disconnerctor N2, by the back-up fuse used. Adjudting buttons can be sealed.
Rated fault current $I_{\Delta n}$ 0.1- 0.3-1-3 A Delay time t_v = 60 -150-300-450ms	NZM2-4 N2-4	4 pole	NZM2-4-XFI	292344		

1230PIC-814 Symbolphoto

Core-balance principle with AC/DC current sensitivity (in range 0... 100 kHz)
For 4 pole circuit breakers NZM2-4 and Switch disconnectors N2-4,
Internal voltage supply Ue = 50 … 400 V

Rated fault current $I_{\Delta n}$ = 0.03 A	NZM2-4 N2-4	4 pole	NZM2-4-XFIA30	292345	1 Off	Observe response threshold dependence on frequency! See Frequency response characteristic curve. Adjusting Buttons can be sealed.
Rated fault current $I_{\Delta n}$ 0.3- 0.5-1 A Delay time t_v = 60 -150-300-450 ms	NZM2-4 N2-4	4 pole	NZM2-4-XFIA	292346	1 Off	

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes

Power supply module, 24 VDC

24 V DC supply to the electronic trip.

WA_SG168621_L Symbolphoto

NZM2(-4)-VX(MX)…	NZM2-XPS24DC	189822	1 Off	Mechanical pass-through of the switch's status (I, O) for use by the remote operator.
NZM3(-4)-VX(MX)…	NZM3-XPS24DC	189823		
NZM4(-4)-VX(MX)…	NZM4-XPS24DC	189824		

Interface module, PXR20/25, connection for communication

For universal connection of optional circuit breaker functions. Required for communication The connection types depend on the design of the interface module. Circuit breaker status detection (I, +, 0) for the electronic trip unit. The switch's status can be communicated. 24 V DC auxiliary power connection. Optional ECAM available for various Fieldbus communication systems (SmartWire-DT, Ethernet-based Fieldbus). Connection to optional, internal Modbus RTU module. The interface module is included in the standard delivery of PXR25 trip units, following items to be ordered separately as replacements.

wa_sg06318 Symbolphoto

NZM2(-4)-VX(MX)(PX)(PMX)…	NZM2-XBSM	189825	1 Off	Mechanical pass-through of the switch's status (I, O) for use by the remote operator.
NZM3(-4)-VX(MX)(PX)(PMX)…	NZM3-XBSM	189826		
NZM4(-4)-VX(MX)…, NZM4-4-PX(PMX)...	NZM4-XBSM	189827		
NZM4-PX(PMX)…	NZM4-XBSM-N	189830		Connection to neutral voltage Vn. Mechanical pass-through of the switch's status (I, O) for use by the remote operator

Interface module, PXR25, connection for communication, zone selectivity, Arcflash Reduction Maintenance System™

For universal connection of optional circuit breaker functions. Required for communication. The connection types depend on the design of the interface module. Circuit breaker status detection (I, +, 0) for the electronic trip unit. The switch's status can be communicated. 24 V DC auxiliary power connection. Optional ECAM available for various Fieldbus communication systems (SmartWire-DT, Ethernet-based Fieldbus). Connection to optional, internal Modbus RTU module. Connector for Logical Zone Selectivity (ZSI) function. Mechanical pass-through of the switch's status (I, O) for use by the remote operator. The interface module is included in the standard delivery of PXR25 trip units, following items to be ordered separately as replacements.

SG05821_L Symbolphoto

NZM2(-4)-PX…-TZ	NZM2-XBSM-TZ	189832	1 Off	
NZM3(-4)-PX…-TAZ	NZM3-XBSM-TAZ	189833		Connection for maintenance mode (Arcflash Reduction Maintenance System™).
NZM4-4-PX…-TAZ	NZM4-XBSM-TAZ	189835		
NZM4-PX…-TAZ	NZM4-XBSM-TAZ-N	189834		Connection to neutral voltage Vn. Connection for maintenance mode (Arcflash Reduction Maintenance System™).

For use with	Part no. / Article no. when ordering separately	Article no.	Std. pack	Notes
Internal communication module				
For the Fieldbus connection. The module is mounted in the right hand accessory pocket of the circuit breaker. For connection to Modbus RTU. RS485 interface.				
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-RCAM-MRTU-I	189836	1 Off	Cannot be used with the PXR10 NZM-AX electronic trip.
Communication module				
For Industrial Ethernet connection to NZM circuit breakers. Requires PXR-RCAM-MRTU-I module for connection to the circuit breaker.				
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-PNET	302050	1 Off	For connection to Profinet. Cannot be used with the PXR10 NZM-AX electronic trip.
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-IP	302051		For connection to EtherNet/IP™. Cannot be used with the PXR10 NZM-AX electronic trip.
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-ECAM-ECT	302052		For connection to EtherCAT®. Cannot be used with the PXR10 NZM-AX electronic trip.
For SmartWire-DTconnection to NZM circuit breakers.* Requires PXR-RCAM-MRTU-I module for connection to the circuit breaker.				
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	PXR-RCAM-SWD	199860	1 Off	For connection to SmartWire-DT Cannot be used with the PXR10 NZM-AX electronic trip.

sg05218

sg04818, wa_sg06218

sg04818, wa_sg06218

*Attention: PXR-RCAM-SWD must only be used with the following firmware versions (or later versions)

NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)	V1.1.XX
NZM2(3)(4)(-4)-VX(MX)(PX)(PMX)...-NA	V2.1.XX
NZM2(3)(4)-XBSM(-TZ)(-TAZ)(-N)	V1.1.XX

1230PIC-668 AO

wa_vt12213

wa_vt22513, wa_vt12213

wa_vt12713

wa_vt12613

Max. Rated Operational Current I_e (A)	Rated Operational Voltage U_e (V)	Adapter Width (mm)	Adapter Length (mm)	Special Features	For use with	Notes	Part no.	Article no.	Std. pack (Stk.)
NZM Busbar Adapter, 3-pole									
Busbar Adapter NZM									
• For use on flat copper bars 12 - 30 x 5/10, Double-T-Profiles and Triple-T-Profiles. • Self-extinguishing according to UL 94. • Track resistance CTI 200. • Temperature-resistant up to 120 °C.									
160	690	92	200	For connecting to the system at the top or bottom through fixed connection bars included in the scope of delivery.[1) 2)]	NZM1 PN1 N1 NS1	For switches with standard connection frame-type terminals. To be snapped onto the busbar by means of a combi-base.	NZM1-XAD160	104554	1
250	690	106	190	For connecting to the system at the top/bottom through a tube-type of connection at the rear. Tube included in the scope of delivery.[3)]	NZM2 PN2 N2 NS2	Use only in combination with auxiliary type (+)NZM2-XKR4. To be screwed tonto the busbar by means of a clawtype of clamp.	NZM2-XAD250	104555	1
630	690	140	300	For connecting to the system at the top/ bottom through a tubetype of connection at the rear. Tube included in the scope of delivery.[3)]	NZM3 PN3 N3	Use only in combination with auxiliary type (+)NZM3-XKR13. To be screwed tonto the busbar by means of a claw-type of clamp.	NZM3-XAD630	107206	1
Terminal for Device Adadpter NZM									
250	690	–	–	To cover the connection to the system at the top/bottom.	NZM2 PN2 N2 NS2	For device combination NZM2 use with auxiliary type +NZM2-XKR4O or +NZM2- XKR4U.	NZM2-XKR4	281666	1
630	690	–	–	To cover the connection to the system at the top/bottom.	NZM3 PN3 N3	For device combination NZM3 use with auxiliary type +NZM3- XKR13O or +NZM3-XKR13U.	NZM3-XKR13	281668	1

[1)] To be snapped onto the voltage-free busbar.
[2)] Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm.
[3)] To be screwed onto the voltage-free busbar.

NZM Busbar Adapter, 4-pole

Busbar Adapter NZM

- For use on fl at copper bars 12 - 30 x 5/10, Double-T-Profiles and Triple-T-Profiles.
- Self-extinguishing according to UL 94.
- Track resistance CTI 200.
- Temperature-resistant up to 120 °C.

01063591_0

01063598_0

Max. Rated Operational Current I_e (A)	Rated Operational Voltage U_e (V)	Adapter Width (mm)	Adapter Length (mm)	Special Features	For use with	Notes	Part no.	Article no.	Std. pack (Stk.)
250	690	140	–	For connecting to the system at the top through a tubetype of connection at the rear. Tube included in the scope of deliverys.[3]	NZM2(-4) PN2(-4) N2(-4) NS2(-4)	Use only in combination with auxiliary type (+)NZM2-4-XKR4. To be screwed tonto the busbar by means of a claw-type of clamp.	NZM2-4-XAD250	138388	1
630	690	185	–	For connecting to the system at the top through a tube-type of connection at the rear. Tube included in the scope of delivery.[3]	NZM3(-4) PN3(-4) N3(-4) NS3(-4)	Use only in combination with auxiliary type (+)NZM3-4-XKR13. To be screwed tonto the busbar by means of a clawtype of clamp.	NZM3-4-XAD630	138389	1

Terminal for Device Adadpter NZM

NZM2-4-XKR4

NZM2-4-XKR4

250	690	–	–	To cover the connection to the system at the top.	NZM2-4 PN2-4 N2-4 NS2-4	For device combi-nation NZM2 use with auxiliary type +NZM2-4-XKR40.	NZM2-4-XKR4	118907	1
630	690	–	–	To cover the connection to the system at the top.	NZM3-4 PN3-4 N3-4 NS3-4	For device combi-nation NZM3 use with auxiliary type +NZM3-4-XKR130.	NZM3-4-XKR13	119020	1

[1] To be snapped onto the voltage-free busbar.
[2] Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm, cross-section of conductor 6 x 9 x 0.8.
[3] To be screwed onto the voltage-free busbar.

Busbar Adapter NZM

	NZM1-XAD160	NZM2-XAD250	NZM3-XAD630
Design	3-pole, 690 V~	3-pole, 690 V~	3-pole, 690 V~
Bar system	60 mm	60 mm	60 mm
Bar contacting	combi-base	claw-type terminal	claw-type terminal
Connection of the switchgear	top/bottom	top or bottom	top or bottom
Short circuit current rating SCCR	32 kA at 480 V	35 kA at 480 V 50 kA at 600 V	65 kA at 480 V 50 kA at 600 V
Base body:			
	Thermoplastic	Thermoplastic	Thermoplastic
	Temperature resistant up to 120 °C	Temperature resistant up to 120 °C	Temperature resistant up to 120 °C
	Self-extinguishing according to UL 94	Self-extinguishing according to UL 94	Self-extinguishing according to UL 94
	Track resistance CTI 200	Track resistance CTI 200	Track resistance CTI 200
	Halogen-free	Halogen-free	Halogen-free

NZM1-XAD160

Derating:

Ambient temperature	25	30	35	40	45	50	55
Permissible rated current	160	155	150	146	141	136	130
Derating to 160 A	1	0.97	0.94	0.91	0.88	0.85	0.81

NZM2-XAD250

No derating

NZM3-XAD630

Derating:

Ambient temperature	20	30	40	50	60	65	70
Permissible rated current	630	605	580	554	529	517	504
Derating to 630 A	1	0.96	0.92	0.88	0.84	0.82	0.80

Notes:
Please observe the de-rating coefficients listed in the table above to determine the maximum ampacity allowed at different ambient temperatures!

Example:
An NZM3...3-...630... device with an NZM3-XAD630 device adapter should be operated at an ambient temperature of 50 °C.

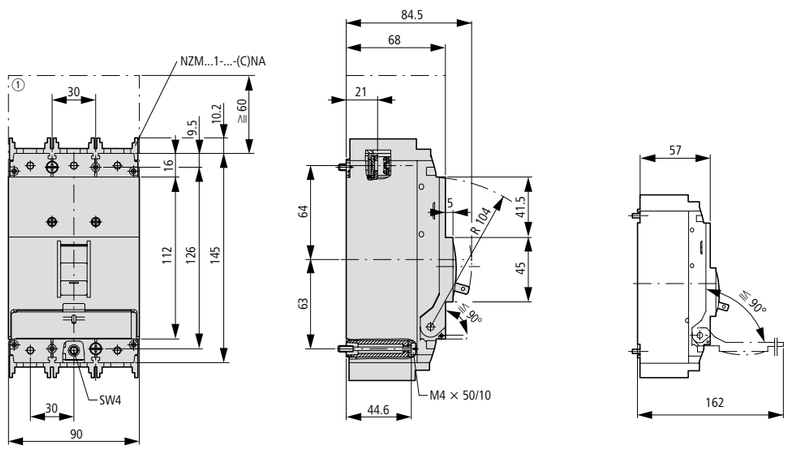
Question:
What is the maximum rated operating current Ie allowed I_e ? =>

Solution:
At an ambient temperature of 50 °C, the de-rating cor.m.sicient is 0.88. This means that I_e = 630 A x 0.88 = 544 A.
At an ambient temperature of 50 °C, the device can therefore be operated at a maximum of I_e = 544 A.

Dimensions (mm)

3 pole

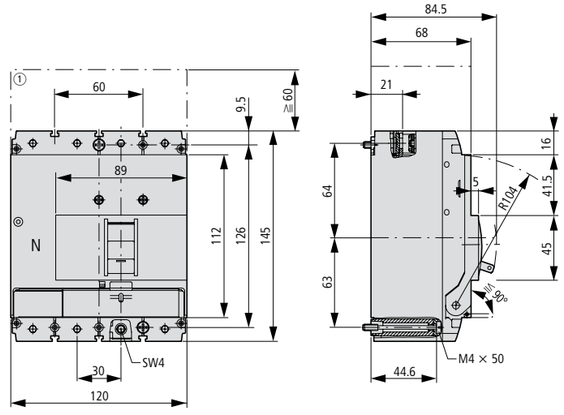
NZMB1
NZMC1
NZMN1
NZMH1
PN1
N1
NS1



① Blow-out area, minimum distance to other parts ≧ 60 mm

4 pole

NZMB1-4
NZMC1-4
NZMN1-4
NZMH1-4
PN1-4
N1-4

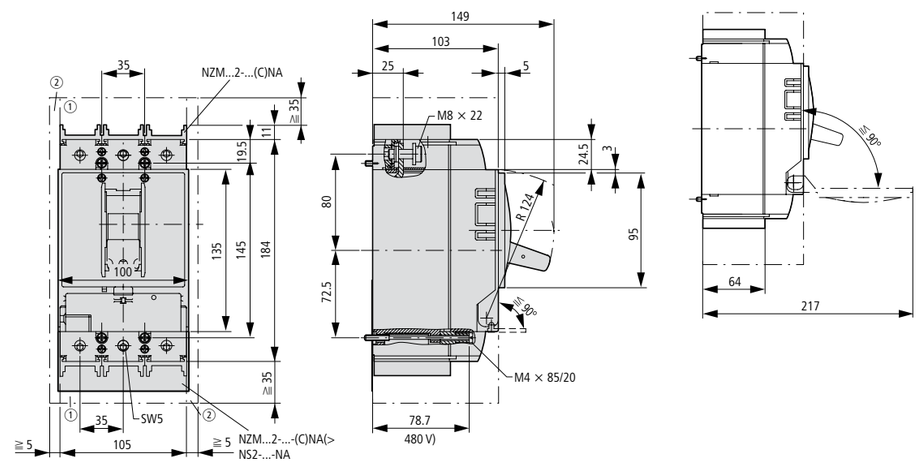


① Blow-out area, minimum distance to other parts ≧ 60 mm

Dimensions (mm)

3 pole

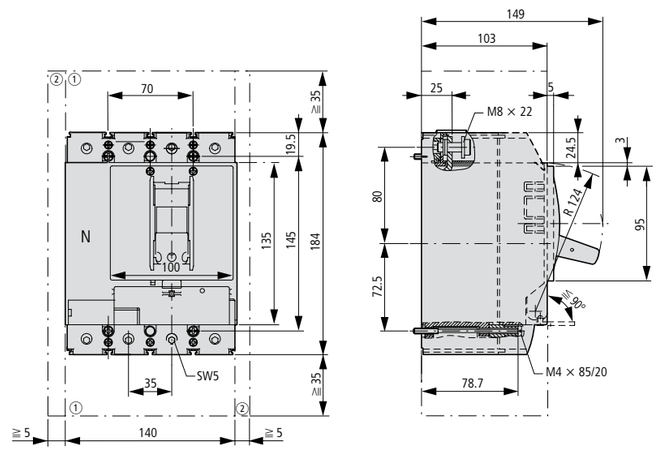
NZMB2
NZMC2
NZMN2
NZMH2
PN2
N2
NS2



① Blow-out area, minimum distance to other parts ≧ 35 mm
② Minimum distance to adjacent parts ≧ 5 mm

4 pole

NZMB2-4
NZMC2-4
NZMN2-4
NZMH2-4
PN2-4
N2-4

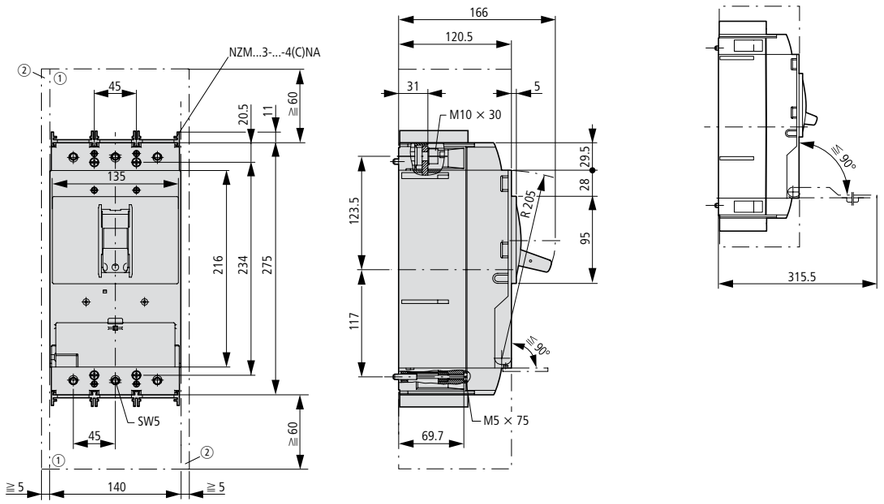


① Blow-out area, minimum distance to other parts ≧ 35 mm
② Minimum distance to adjacent parts ≧ 5 mm

Dimensions (mm)

3 pole

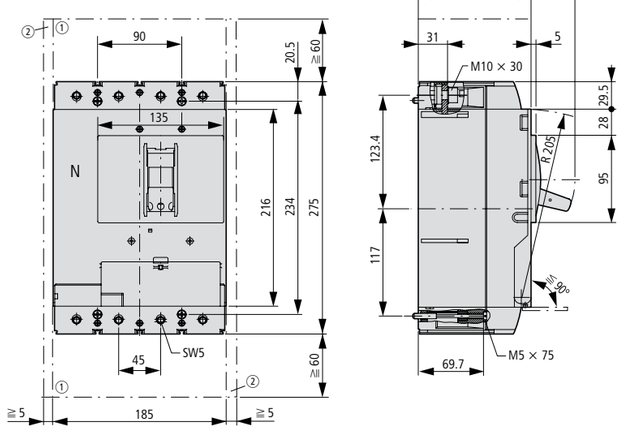
NZMC3
PN3
N3
NS3



① Blow-out area, minimum distance to other parts ≧ 60 mm
② Minimum distance to adjacent parts ≧ 5 mm

4 pole

NZMC3-4
NZMN3-4
NZMH3-4
PN3-4
N3-4

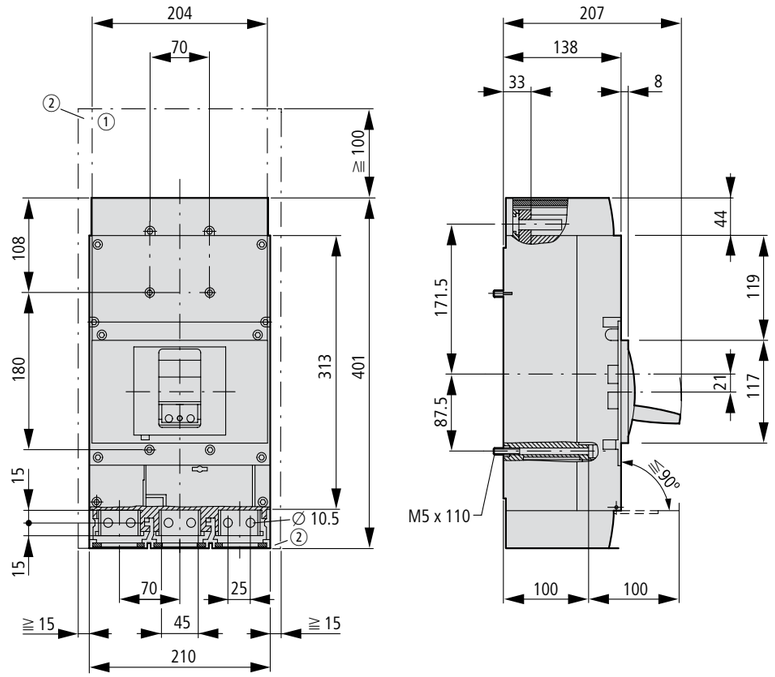


① Blow-out area, minimum distance to other parts ≧ 60 mm
② Minimum distance to adjacent parts ≧ 5 mm

Dimensions (mm)

3 pole

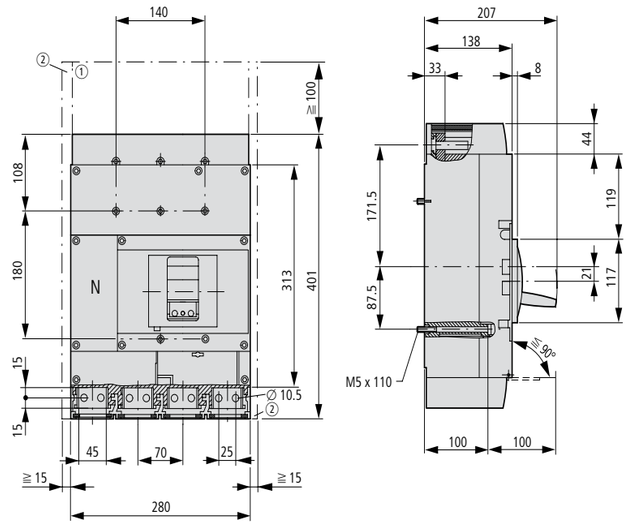
NZMN4
NZMH4
N4
NS4



① Blow-out area, minimum distance to other parts ≧ 100 mm up to 690 V; ≧ 200 mm up to 1000 V
② Minimum distance to adjacent parts ≧ 15 mm

4 pole

NZMN4-4
NZMH4-4
N4-4

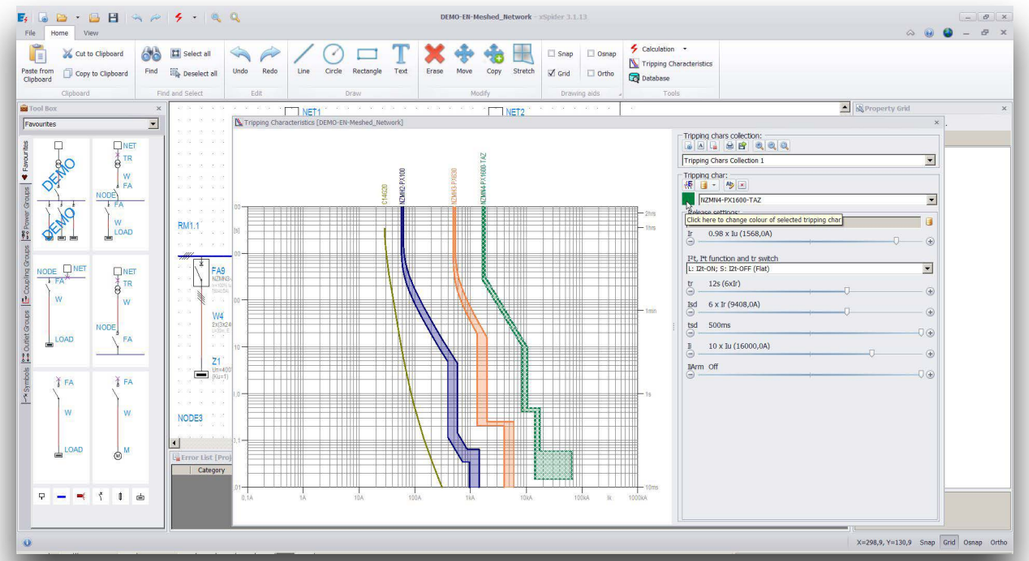


① Blow-out area, minimum distance to other parts ≧ 100 mm
② Minimum distance to adjacent parts ≧ 15 mm

xSpider creates your networks

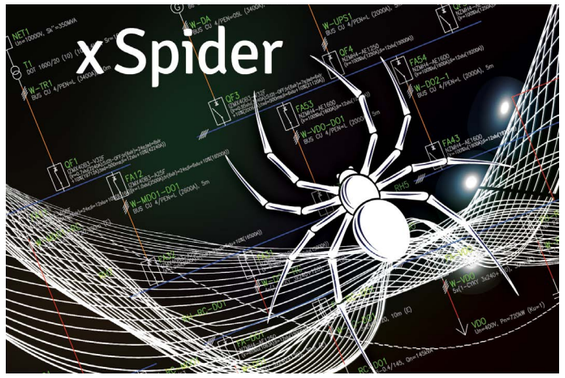
The xSpider software is a graphic-oriented design system for dimensioning of low-voltage networks fitted with Eaton brand circuit protection equipment.

The software is intended primarily for designers and computational engineers. It includes a new graphics and computing core as well as a new user interface.



General Features

- Suitable for TN / IT / TT network systems of different voltage systems up to 1,000 V.
- Design of radial as well as meshed networks.
- Operating status manager for simulating various operating states of the network (ON/OFF status of sources and loads).
- Database of components with transparent tree structure, allowing user-defined additions.
- All calculations are based on IEC standards.
- Coordination of protective devices (selectivity, backup protection).
- Tripping characteristics available for all protective devices.
- Generation of documentation (wiring diagram with calculation results, calculation report etc.).

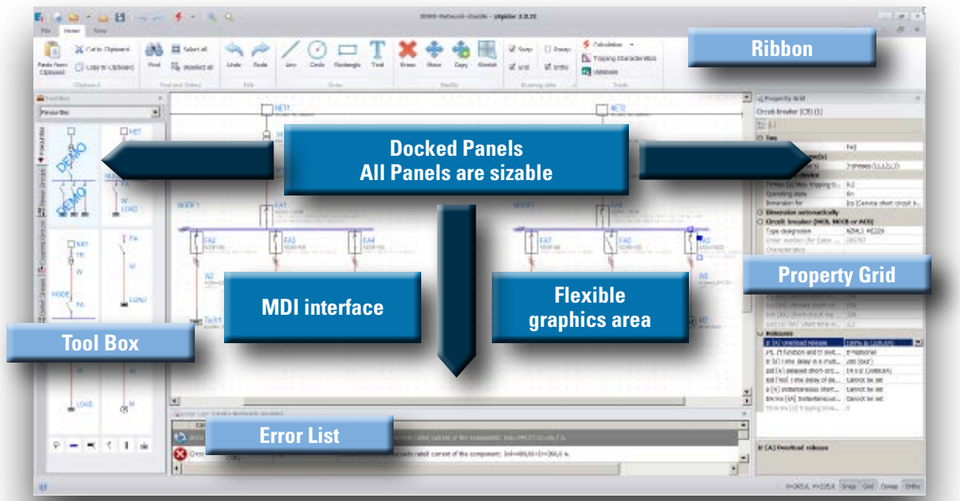


Calculations

- **Voltage drops** in nodal points of the network.
- Load distribution in the network lines.
- Power factor calculation for meshed networks.
- **Three-phase symmetric short circuit** according to IEC 60909.
- Backup protection – checking the breaking capacities of the out-going protective components at the outgoers.
- Selectivity assessment of circuit breakers according to tripping characteristics and selectivity tables.
- **Single-phase asymmetrical short circuit current.**
- Calculation of the disconnection time and check on compliance with the requirements of IEC 60364-4-41.

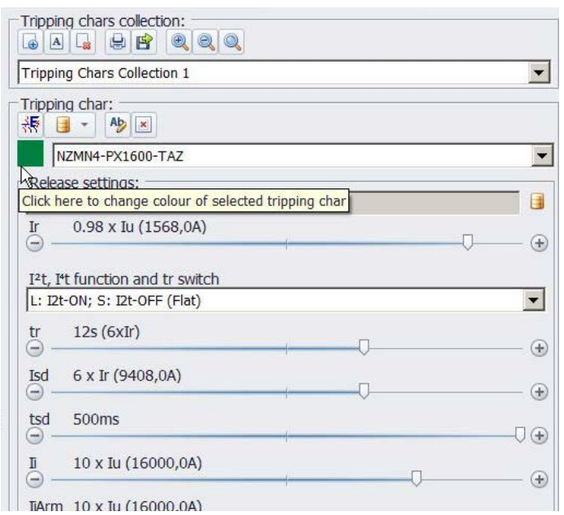
Displaying of results

- Calculation is followed by a display of the list of non-compliant elements (in parallel with the wiring diagram).
- After the calculation has been performed, the calculated values will be displayed for the individual components in the network wiring diagram.
- The results diagram is printable. It can be printed on any output device, for which a driver is available in Windows (printer, plotter).
- After calculation, a comprehensive report on the calculation can be generated and printed.



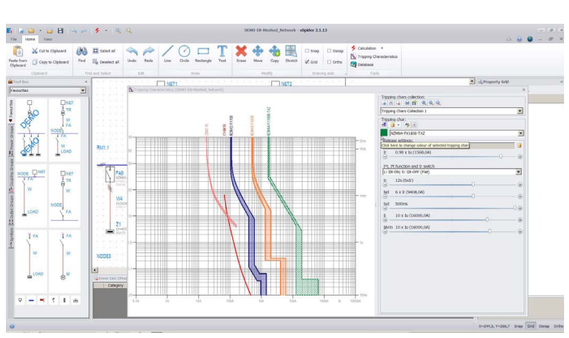
User operation similar to standard CAD systems (AutoCAD)

Working with tripping characteristics

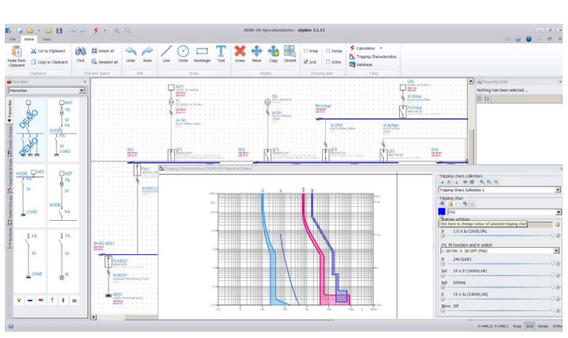


Setting of parameters for selected circuit breaker tripping characteristic

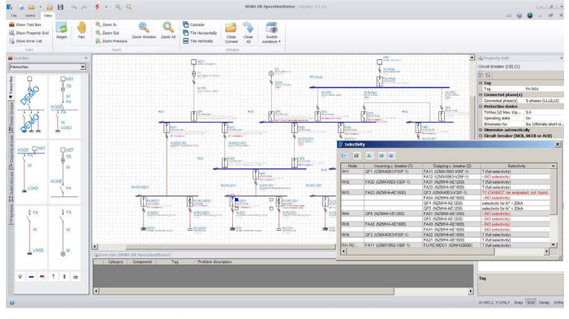
- The dialogue box with the tripping characteristics is shown in parallel with the wiring diagram.
- Selection of a protective device from the database and rendering of its tripping characteristic (including tolerance range if the necessary data is available).
- Selection of protective equipment from the network wiring diagram and drawing of its tripping characteristics – selectivity assessment possible.
- If a circuit protection device is equipped with adjustable releases, it is possible to modify all available parameters. If this was a device from the wiring diagram, the change of the release parameter setting is transferred back into the wiring diagram.
- It is also possible to work with the tripping characteristics independently, i.e. without drawing a wiring diagram.



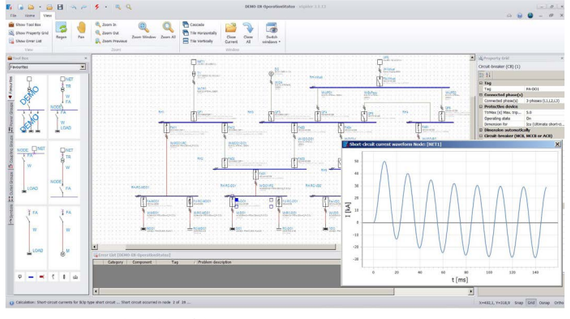
Tripping characteristic of NZM breakers



Tripping characteristic of NZM4 with activated Arcflash Reduction Maintenance System™



Complex evaluation of selectivity and backup protection



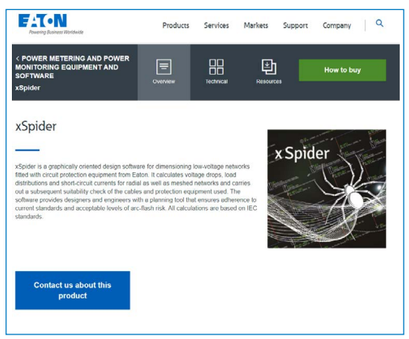
Tripping characteristic of NZM breakers with complex evaluation of selectivity and backup protection in the project

How to obtain the xSpider software

Go to the xSpider homepage:
1) www.eaton.com/xspider
2) Search with any explorer (Google) for terms such as: xSpider, or xSpider Eaton etc.

- Download the xSpider software *)
- Installation of xSpider to a computer
- xSpider icon is displayed on the screen – click on it
- Start

*) available also:
- PowerPoint presentations – quick overview of features
- User manual is part of installation or available separately as a PDF file
- Instruction videos help to quickly understand operation.



www.eaton.com/xspider

How to start the first job

The most effective way for quick learning is to start with the selected "DEMO Network" drawing, then look at Videos and follow the User manual, Part III.

1 DEMO drawing

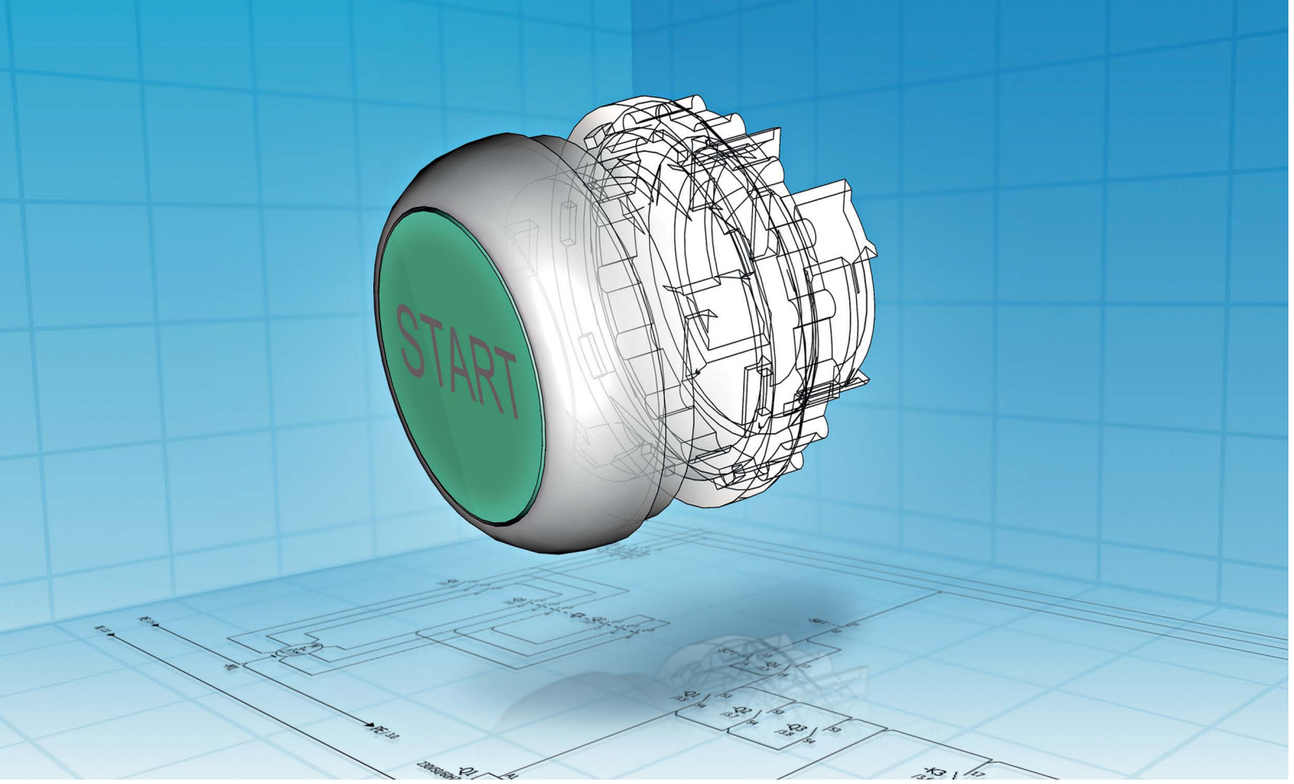
Ready drawings with explanation of basic features. The DEMO drawing contains all basic components and allows immediate work with all xSpider features.

2 Videos

Typical situations in the everyday use of xSpider

3 User manual

Step-by–step explanation in Part III:
Part I: Theoretical Introduction
Part II: Program Operation
Part III: Solved Examples



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- 22,000 article data items and macros
- Download from EPLAN Data Portal
- Available for version P8

- Models for approx. 20,000 products
- 80 different neutral & native formats

Eaton is providing its customers with CAD data to offer optimum support during planning. Both electrical and mechanical design data can be called up quickly and conveniently from the Internet at any time. This reduces processing times, minimizes errors and thus already reduces costs in the engineering phase of control panels, systems and machinery.

eCAD: Eaton has product data and macros for EPLAN Electric P8 available in the EPLAN Data Portal.
More than 22,000 products can be found and downloaded from there.

mCAD: Eaton makes 2D and 3D data available for more than 20,000 products.
Over 80 different neutral and native formats guarantee compatibility with the project engineering systems of the customer. The models can either be integrated directly into the planning software from the Partcommunity Portal on the Internet or via the CADENAS Partsolution software.

www.eaton.eu/cad

Build it in.

Galileo

CODESYS

OPC UA

XV HMI/PLC: Systematic visualization and control

All devices can also be used in portrait format

With the XV system of HMI-PLC touch panels, Eaton offers machine builders and system integrators a coordinated product range that can be precisely matched to various performance classes.
In combination with powerful processors, the intelligent implementation of the PLC runtime as part of a lean and efficient embedded platform strategy leads to modern, scalable and cost-effective automation concepts.
The use of CODESYS programming standard and the comprehensive interfaces illustrate the openness of the system.
Display sizes from 3.5" to 15", plastic and metal versions, and the option of using capacitive, resistive, or infrared touch panels allow for an extremely wide range of applications.
A unique technology: XV panel with integrated SmartWire-DT master interface. The control wiring has been replaced by a single cable, which makes it easy to connect the switching, signaling and operating devices as well as any sensors and actuators outside the control panel.

www.eaton.com/hmi

XV300 – The new face of modern industry

Intuitive user guidance, precise gesture control, multimedia integration - industrial applications that offer the same ease of use that we have come to expect from smartphones and tablets.

The new XV300 panels with capacitive multi-touch or infrared technology are not only easy to operate, but are also redefining the possibilities of human-machine interaction. Modern, high-resolution devices that meet your needs - even in harsh industrial environments.

General features

- Can be used either in portrait or landscape mode
- Removeable SD card
- Interface combinations: 1 or 2 Ethernet interfaces 10/100Mbps, CAN, PROFIBUS-DP/MPI
- SmartWire-DT, RS232, RS485
- Integrated web server
- HMI / HMI/PLC functionality
- High system performance and a powerful graphics processing unit
- PLC function programmable with CODESYS V2 and V3
- Visualization vie GALILEO, CODESYS or Visual Designer
- UL approval
- Marine approval for the 7" and 10" XV-303/313 devices

XV-303

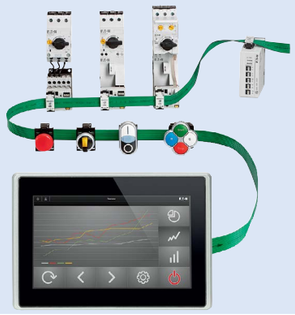
- Capacitive multi-touch panel for front mounting
- Display sizes 7", 10.1" and 15" in 16:9 format
- Flat front panel made from non-reflective tempered glass
- Plastic housing
- Interfaces: 1 or 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP, SmartWire-DT

XV-313

- Capacitive multi-touch panel for rear mounting
- Display sizes: 7" and 10.1" in 16:9 format
- Flat front panel made from non-reflective tempered glass
- Plastic housing with aluminum bezel
- Flush-mounted, resulting in a flat surface without any sharp edges
- Interfaces: 1 or 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP, SmartWire-DT

XV-363

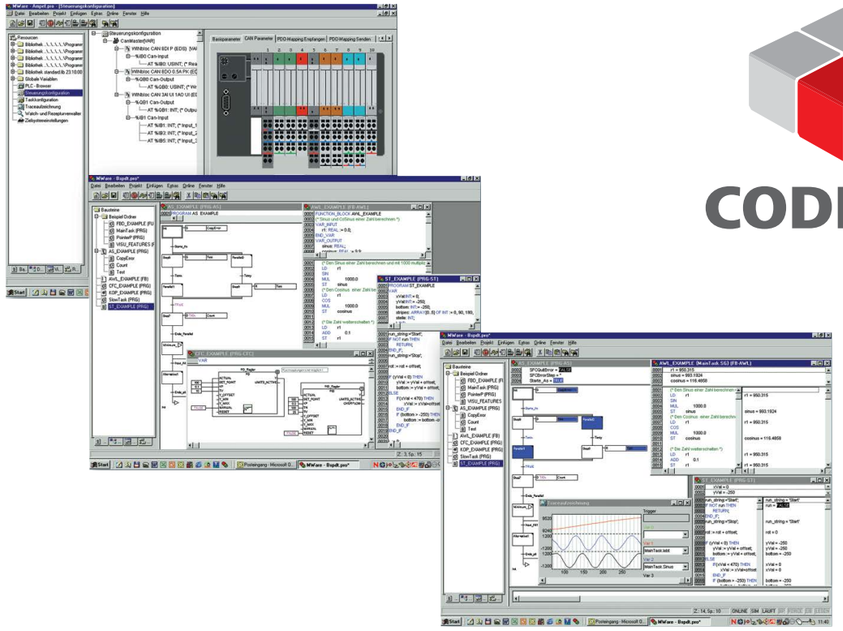
- Infrared touch panel for front mounting
- Display sizes: 5.7", 10.4" and 12.1" in 4:3 format
- Laminated safety glass, non-reflective
- Metal housing with aluminum bezel
- The dimensions are identical to those of the XV(S)400 series
- PLC function can be added later by means of Y7-181585 (LIC-PLC-A)
- Communication options: 2 x Ethernet, 1 x CAN, 1 x RS232, 1 x RS485
- Optional: 1 x Profibus-DP



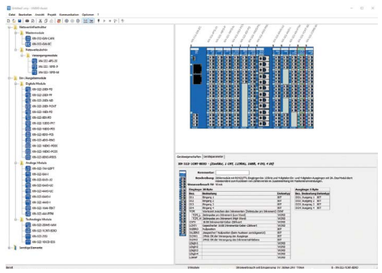
SmartWire-DT on board

SmartWire-DT is an integral component of Eaton's automation concept, which is characterized by flexible solutions with fewer components and less engineering: SmartWire-DT supports the integration of the communication and I/O level directly into the control, display and switching devices. In addition to executing control commands, the PLC can thus directly access digital and analog data, from sensors all the way to circuit breakers. This eliminates the need for a separate gateway and I/O layer.

Build it in.



XSOFT-CODESYS – PLC programming to international standards



Software tools simplify both project execution and commissioning:

- XN300 Assist
- I/O-Assist
- SWD-Assist

Download free of charge at
www.eaton.com/software

www.eaton.com/codesys

CODESYS is a programming system based on the 3S' CODESYS standard. And with its sophisticated technical features, ease of use, and popularity as a programming system for automation components from a wide variety of manufacturers, it is no surprise that it has become the system of choice for many a successful company. Eaton offers both **CODESYS Version 2** and **Version 3**, and most XV/XC controllers can be programmed with either version.

CODESYS is the ideal programming tool for applications in which a powerful PLC or HMI PLC with various field bus connections is required. The reason why is its integrated field bus configurators for PROFIBUS, CAN, SmartWire-DT, Modbus TCP/RTU (in Version 3), and EtherNet/IP™ (in Version 3), which make it possible to quickly, intuitively, and easily connect devices to the field bus of your choice. In short, the software is the ideal programming tool for all machine and process-relevant applications in mechanical and plant engineering environments.

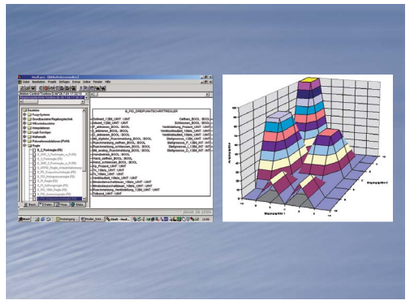
SWD-Assist	I/O-Assist	XN300 Assist	CODESYS-3-Webvisu	CODESYS-3	CODESYS-2 Webvisu	CODESYS-2	
•*			•	•	•	•	XV-102-B/-D/-E-…
			•	•	•	•	XV-112…
•*			•	•	•	•	XV-152…
•*			•	•	•	•	XV-3x3-…
•*			•	•	•	•	XC-152-…
			•	•			XC-303
			•	•	•	•	XC-CPU202-…
						•	XC-CPU101-…
						•	EC4P-…
		•		•		•	XN-312-GW-CAN
	•			•		•	XNE-GWBR-…

* for devices with SmartWire-DT interface

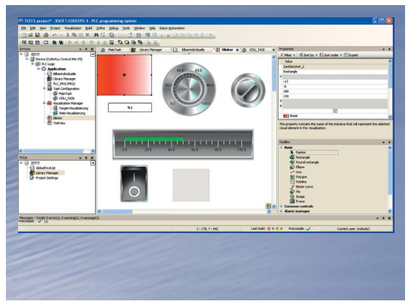
Maximum flexibility
CODESYS is the programming tool for all Eaton XV/XC controllers. It enables users to program systems as per IEC-1131-3 with the following programming languages: instruction list (IL), ladder diagram (LD), function block diagram (FBD), sequential function chart (SFC), structured text (ST), continuous function chart (CFC).
Eaton offers targets for the XV100, XV300, XC-152, and XC-CPU202 automation systems both for CODESYS V3 and CODESYS V2, meaning that the same hardware can be used in new (configured with CODESYS 3) and existing (programmed with CODESYS 2) machine generations.

Multitasking
The structuring of the application into several user-defined runtime programs (multitasking) optimizes your PLC's resources and simplifies the implementation of time-critical requirements. This gives high-speed processes priority and slower processes as much processing time as necessary.

Web visualization
XSOFT-CODESYS can generate an XML description based on visualization information. In CODESYS V2, this description will be stored on the controller together with a Java applet. In CODESYS V3, HTML5-based pages (CODESYS V3) will be generated instead. These pages can then be displayed on a browser via TCP/IP.



Application libraries
Eaton Automation offers several ready-to-use libraries for programming PLCs with XSOFT-CODESYS for a wide range of applications:
- Control technology toolbox
- Motion control toolbox
- FTP server
- FTP client
- UDP and TCP/IP
- Modbus RTU/TCP master/slave
- OS functions
- File handling



XSOFT-CODESYS Version 3 features:
- A programming tool that can be expanded using plugins to handle customer-specific adaptations
- Expanded language options (object-oriented programming)
- Know-how protection for targets and the programming tool
- Multiple PLC programs in one project
- New and improved TargetVisu functions
- Improved IT safety functions
- Websites based on HTML5
- Field bus configurations: Modbus TCP/RTU, Replace by: EtherNet/IP™
- SAE J1939 protocol

Functional safety to protect people, machines and the environment

Safety Technology
Control the unexpected

Throughout their entire life cycle, machines pose risks to people, other machinery and the environment. For this reason, it is vital to identify any hazards during the design phase of the machine and to reduce them by taking appropriate measures.

The Machinery Directive 2006/42/EC stipulates that machines should not pose any danger. However, as there is no such thing as 100 % safety in engineering, the objective is to minimize dangers and to achieve tolerable levels of residual risk. The overall safety of a machine defines the state in which it either poses no unacceptable risks to people or can be considered hazard-free. Functional safety refers to the part of the overall safety of a system which depends on the correct functioning of the safety-related systems and the external risk-reduction devices.

www.eaton.com/safety

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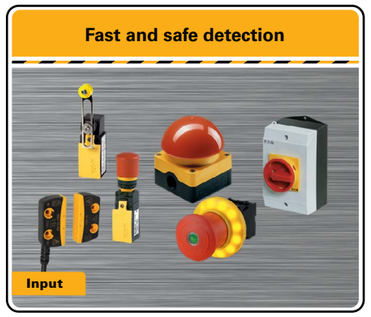
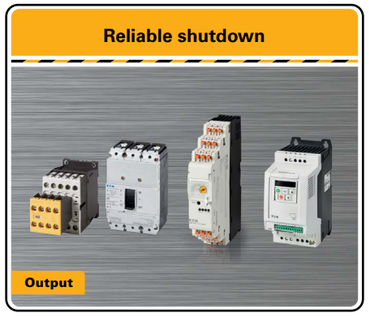
Risk reduction through the use of safety-related parts in control systems

In international standards, the safety components of machine controls are referred as to "safety-related parts of control systems" (SPR/CS). Safety-related control components cover the entire functional chain of a safety function. In each case, they consist of the input level (sensor), the integrated logic (safe signal processing) and the output level (actuator).

The general objective is to design these components in such way that the control functions reduce the level or risk in line with the results of the risk analysis, even in the event that the control system malfunctions. The higher the level of risk reduction that the safety-related parts of a control system need to achieve, the higher the required safety level/technical safety performance level.



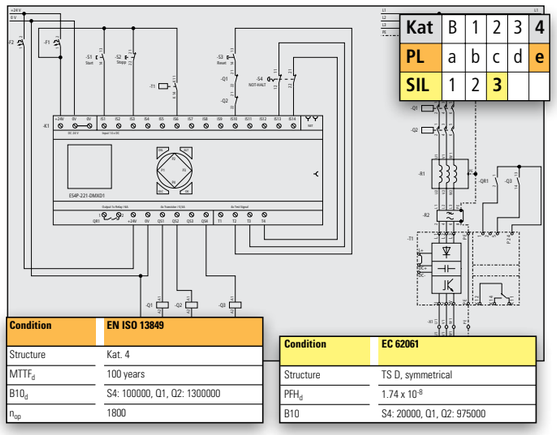


Safety Manual for machines and systems in accordance with EN ISO 13849-1 and IEC 62061

Information about machine safety can be found in Eaton's "Safety Manual", which is aimed at machine builders and system integrators, as well as at teachers and students and anyone else who is interested in the topic.

This manual provides an introduction to the comprehensive literature on safety technology. The Eaton Safety Manual provides an overview of the interplay between the relevant directives, standards and regulations that must be taken into account when designing safety equipment for machines. The safety-related contents of this manual have been certified by TÜV Rheinland Industrie Service GmbH.

Based on example circuits, the manual shows how functional safety can be implemented in safety applications by means of electrical, electronic and programmable components and systems.



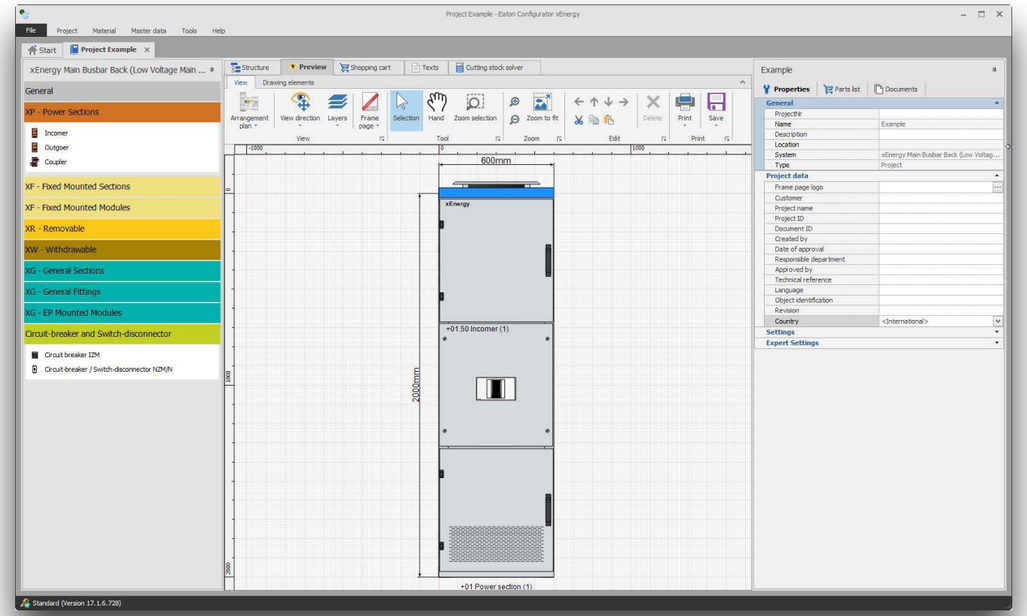
In addition, the Safety Manual also describes the functioning of each example circuit and contains a clear overview of the possible evaluations.

The calculated variables are based on standard assumptions about the safety applications and safety-related switchgear being used.

Register now at www.eaton.com/shb to download our Safety Manual free of charge.

The safety-relevant variables for our products are available at www.eaton.com/safety

Eaton xEnergy configurator



Eaton's xEnergy configurator is a pricing and configuration software that enables panel builders to design and calculate the cost of low-voltage switchgear assemblies using Eaton's xEnergy enclosure families and IZM and NZM circuit breaker families.

www.eaton.com/configurator

Main features

Distribution board configuration
- Fast and reliable configuration of distribution boards systems and circuit protection devices.
- Define technical properties with continuous validation check.
- Function-oriented dimensioning of the distribution board by means of neutral properties.
- Optional transfer of the configured distribution board to ProPlan (detail engineering).

Preview
- View of the distribution board from different directions.
- View of sections, modules and busbars including dimensioning and drawing sheet.
- Move components via drag/drop.
- Export as DXF file.

Part lists
- Expandable with any user defined material (including material from "MatClass").

Documentation
- Access to xEnergy assembly manuals and installation instructions.

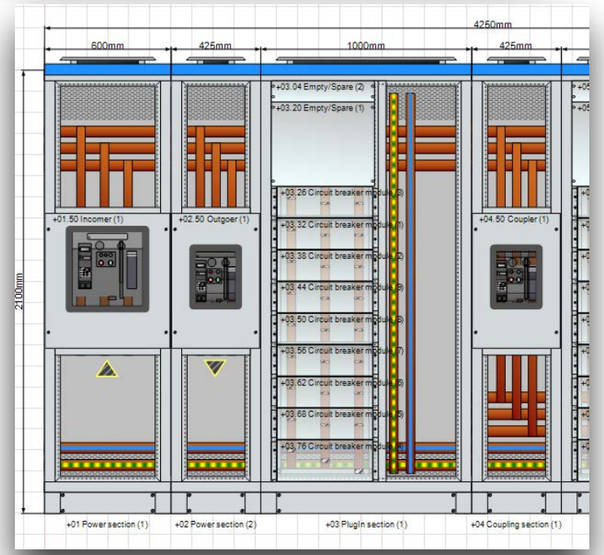
Shopping cart
- As structure and summary parts list.
- Includes the calculation of metal surcharges.
- Considers exchange rates.
- Export to Microsoft Excel.
- Includes recommendations for additionally required busbar material (copper lengths).

Configurator contents

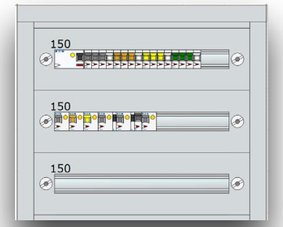
The xEnergy configurator allows you to price and design Eaton switchgear for your project within minutes.

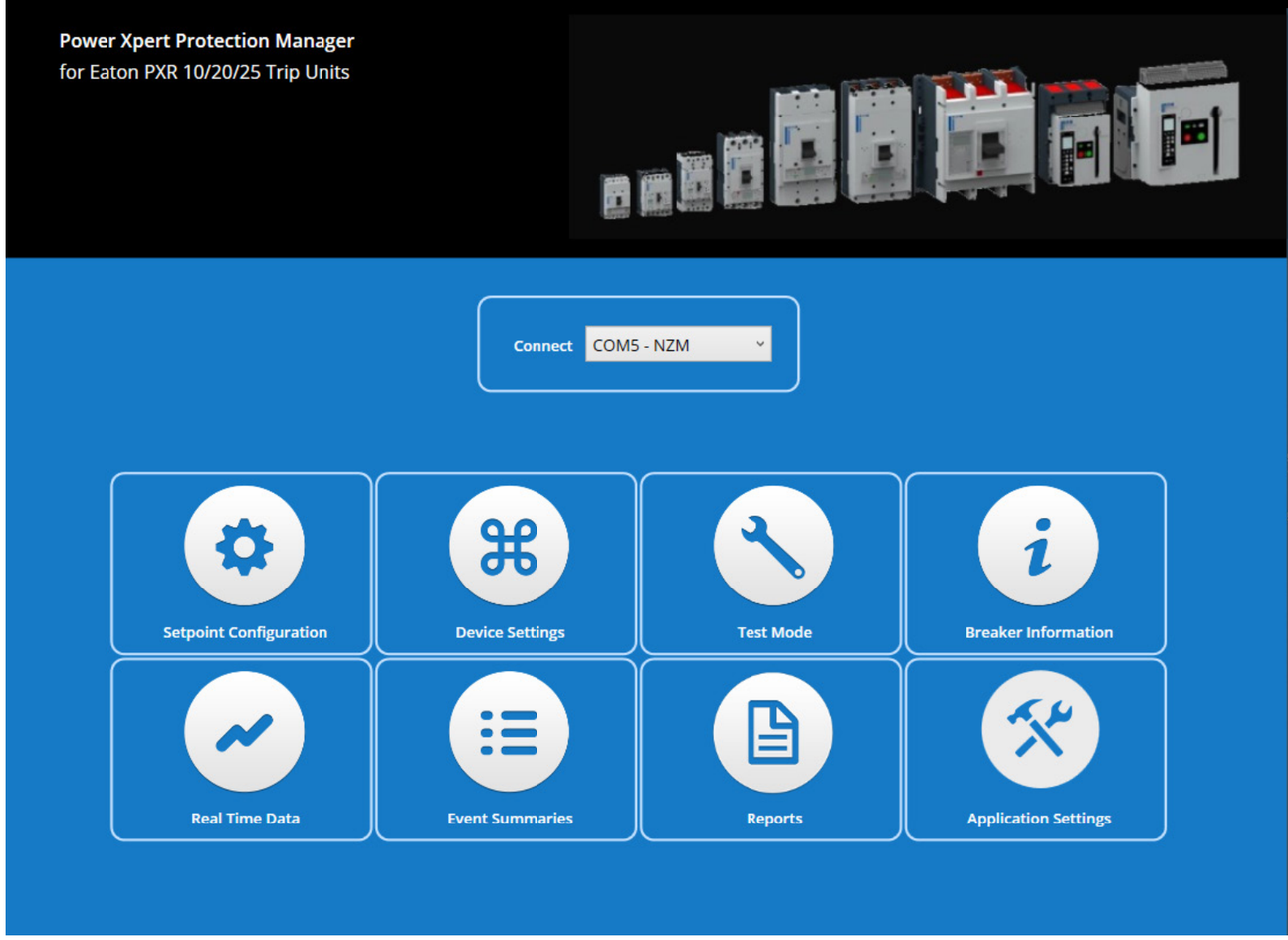
Use Eaton's xEnergy configurator to design the following types of circuit breakers and low-voltage switchgear systems and calculate their costs:
- xEnergy **E**lite and Modan S
- xEnergy **M**ain
- xEnergy **S**afety
- xEnergy **L**ight
- xEnergy **B**asic

- IZM air circuit breakers
- NZM and PDE molded case circuit breakers



You can generate both a bill of materials (for steel work, device fitting kits and circuit breakers) as well as an individually adjustable front view for the creation of quotations. A suitable distributor is automatically recommended based on the chosen system function. Within the low-switchgear assemblies, all types of components can be placed and configured:
- Air circuit breakers
- Molded case circuit breakers
- Miniature circuit breakers
- Residual current circuit breakers
- Residual current circuit breakers with overcurrent protection
- Control and monitoring devices





Power Xpert Protection Manager

Power Xpert Protection Manager Main Menu

Eaton's Power Xpert Protection Manager (PXPM) provides a clean, intuitive user interface enabling unmatched control, testing, and troubleshooting. The software is free to download and can run on any PC. Settings and tests are communicated to trip units via USB or through connected networks, no special test equipment is required. Troubleshooting is greatly simplified through the use of historical event summaries and real-time data provided by the Power Xpert Release (PXR) trip units. This helps customers to save time and money.

- Eaton's software helps simplify testing, serviceability and customization – yielding significant time and labor savings.
- An enhanced user interface enables engineers to remotely view and adjust the trip unit settings.
- Real-time data: Provides status information and metered data directly from the trip unit.
- Event summaries: Stores up to 200 events, detailed information on most recent (10) trip and (10) alarm events, and time adjustments to the real-time clock.

www.eaton.com/PXPM

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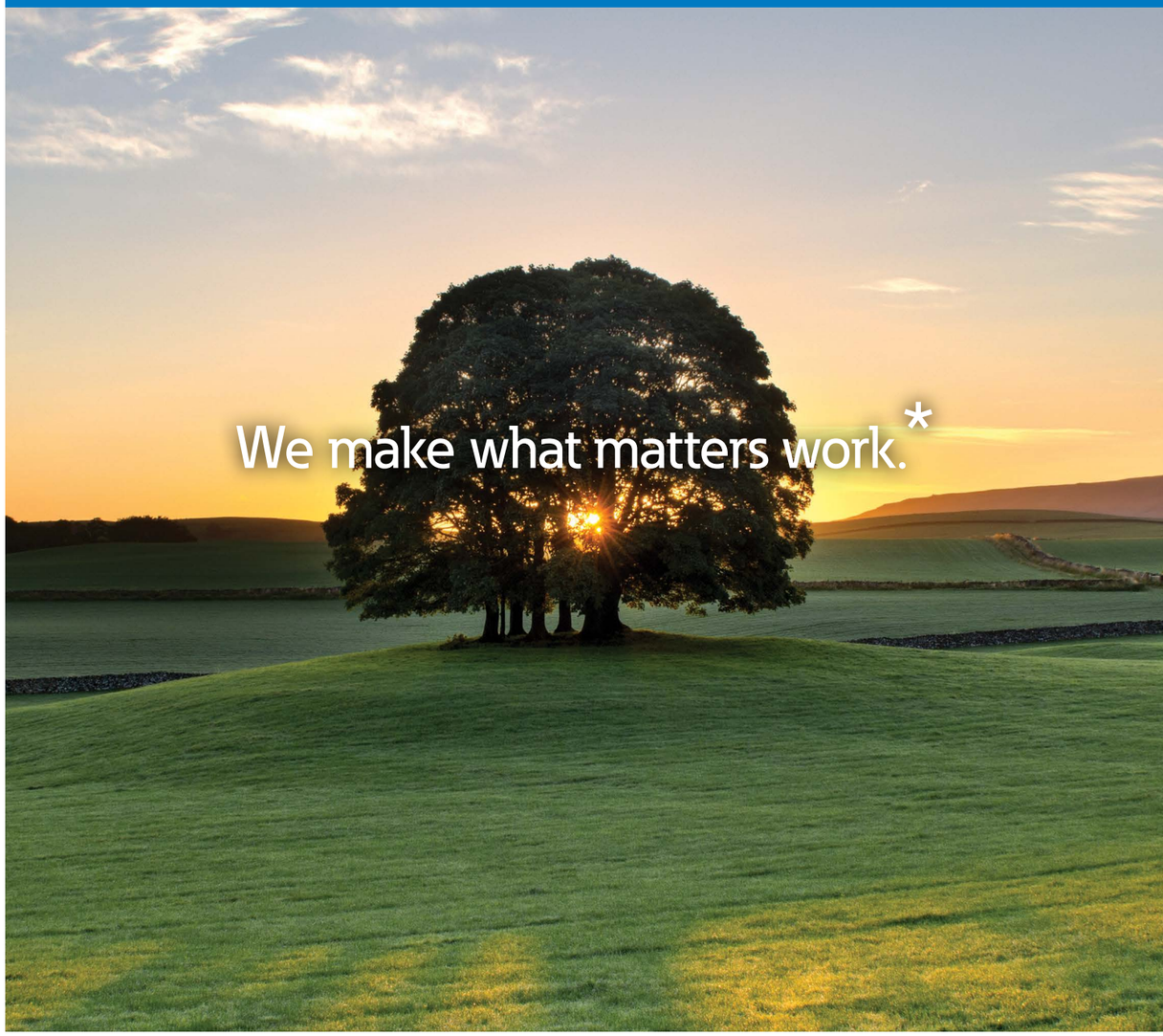
Features

Setpoint Configuration	Setpoint Configuration	- Provides full breaker configuration - Online as well as offline - Offline parameter files
Device Settings	Device Settings	- Parameter reset - Min/max values etc. - Set date and time - Change password of trip unit - Password is required to change sensitive settings - Required for change of protection settings
Test Mode	Test Mode	- Perform test features - "Open breaker" – test - "Current sensor" – test - "Functional" – test
Breaker Information	Breaker Information	- Provides breaker information details - Trip unit serial number - Trip unit catalog number - Trip unit manufacturing date
Real Time Data	Real Time Data	- Provides "online" real-time data - Status, currents, voltages, power - Energy, power demand, min/max values - Diagnostic data
Event Summaries	Event Summaries	- Provides event summary and detailed information - Event summary - Trip events in detail - Alarm events in detail - Time adjustments
Reports	Reports	- Provides reports as PDF of - Breaker information - Real-time data - Event summary - Setpoint
Application Settings	License	- Some features may require a license - License will be connected to specific computer (Hardware identifier) - Provides future possibility to download further trip unit language packs - Standard languages - EN, DE, CN - Other languages FR, ES, IT etc



* At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: Eaton.com/whatmatters

We make what matters work.

Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society.

For more information, visit **www.eaton.com**.

To contact us please visit **https://www.eaton.com/contacts**

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