## Specifications



## Photo is representative





## Eaton 051806

Eaton Moeller® series DILEM Contactor, 400 V 50 Hz, 440 V 60 Hz, 4 pole, 380 V 400 V, 4 kW, Screw terminals, AC operation

General specification	ons
PRODUCT NAME	Eaton Moeller® series DILEM Mini contactor
CATALOG NUMBER	051806
MODEL CODE	DILEM4(400V50HZ,440V60HZ)
EAN	4015080518068
PRODUCT LENGTH/DEPTH	52 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.17 kg
WARRANTY	1 year
COMPLIANCES	RoHS Compliant CE Marked
CERTIFICATIONS	EN 60947 UL Listed IEC 60947 CSA Certified VDE 0660 CSA UL 508 UL File No.: E29096 CSA File No.: 012528 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 CSA Class No.: 3211-04 UL CE IEC/EN 60947 UL Category Control No.: NLDX
CATALOG NOTES	Also tested according to AC-3e.
GLOBAL CATALOG	051806



Product specifications	
AMPERAGE RATING	15A
HP RATING - MAX	0.5, 1.5/ 2, 3, 5, 5 hp (1/3PH @120,240/208,240,480,600 V)
NUMBER OF POLES	Four-pole
ТҮРЕ	Full voltage non-reversing miniature contactor
FEATURES	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	Meets the product standard's requirements.

CATALOGS  Eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf Product Range Catalog Switching and protecting motors  Eaton-contactors-short-time-loading-dilm-characteristic-curve.eps eaton-contactors-switch-dilm-characteristic-curve-003.eps eaton-contactors-switch-dilm-characteristic-curve.eps  DECLARATIONS OF DA-DC-00004788.pdf DA-DC-00004812.pdf  Eaton-contactors-dilem-dimensions.eps eaton-contactors-dilem-dimensions.eps eaton-contactors-diler-dimensions-004.eps eaton-contactors-diler-dimensions-005.eps eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  ECAD MODEL ETN.051806.edz  INSTALLATION INSTRUCTIONS  MCAD MODEL DA-CS-dil em DA-CS-dil em DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  Eaton-Specification Sheet-051806 eaton-contactors- accessory-dilem-system-overview.eps	Resources	
CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  Eaton-contactors-curve.eps  eaton-contactors-component-dilm-characteristic-curve.eps  eaton-contactors-switch-dilm-characteristic-curve.eps  DA-DC-00004788.pdf  DA-DC-00004812.pdf  eaton-contactors-dilem-dimensions.eps  eaton-contactors-diler-dimensions-004.eps  eaton-contactors-diler-dimensions-005.eps  eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  ECAD MODEL  INSTALLATION INSTRUCTIONS  DA-CS-dil em DA-CD-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  POSTURE SWITCH Range Catalog Switching and protecting motors  eaton-contactors-switch-dilm-characteristic-curve.eps  eaton-contactors-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-diler-dimensions-diler-dimensions-diler-dimensions-diler-dimensions-005.eps  eaton-contactors-diler-dimensions-di	CATALOGS	for-machinery-catalogue-
CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  CHARACTERISTIC CURVE  Eaton-contactors-component-dilm-characteristic-curve- 003.eps  eaton-contactors-switch- dilm-characteristic- curve.eps  DA-DC-00004788.pdf  DA-DC-00004812.pdf  eaton-contactors-dilem- dimensions.eps  eaton-contactors-diler- dimensions-004.eps  eaton-contactors-diler- dimensions-005.eps  eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps  ECAD MODEL  INSTALLATION INSTRUCTIONS  MCAD MODEL  SPECIFICATIONS AND DA-CS-dil em DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  Eaton-contactors- accessory-dilem-system- overview.eps	CATALOGS	Switching and protecting
CHARACTERISTIC CURVE    Component-dilm-characteristic-curve-003.eps		time-loading-dilm-
DECLARATIONS OF CONFORMITY   DA-DC-00004788.pdf	CHARACTERISTIC CURVE	component-dilm- characteristic-curve-
DA-DC-00004812.pdf  eaton-contactors-dilem- dimensions.eps  eaton-contactors-diler- dimensions-004.eps  PRAWINGS  eaton-contactors-diler- dimensions-005.eps  eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps  ECAD MODEL  ETN.051806.edz  INSTALLATION INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  DATASHEETS  SYSTEM OVERVIEW  DA-CO-00004812.pdf  eaton-contactors- accessory-dilem-system- overview.eps		dilm-characteristic-
DA-DC-00004812.pdf  eaton-contactors-dilem- dimensions.eps  eaton-contactors-diler- dimensions-004.eps  eaton-contactors-diler- dimensions-005.eps  eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps  ECAD MODEL  INSTALLATION INSTRUCTIONS  DA-CS-dil em DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  DS1806  eaton-contactors- accessory-dilem-system- overview.eps		DA-DC-00004788.pdf
DRAWINGS  eaton-contactors-diler-dimensions-004.eps  eaton-contactors-diler-dimensions-005.eps  eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  ECAD MODEL  INSTALLATION INSTRUCTIONS  DA-CS-dil em DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  dimensions.eps  eaton-contactors-diler-dimensions-004.eps  Eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  Eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  ETN.051806.edz  DA-CS-dil em DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  eaton-contactors-accessory-dilem-system-overview.eps	CONFORMITY	DA-DC-00004812.pdf
DRAWINGS  eaton-contactors-diler-dimensions-005.eps  eaton-tripping-devices-mounting-diler-contactor-relay-symbol.eps  ECAD MODEL  INSTALLATION INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  DATASHEETS  Eaton Specification Sheet-051806  eaton-contactors-accessory-dilem-system-overview.eps		
eaton-contactors-diler- dimensions-005.eps  eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps  ECAD MODEL  ETN.051806.edz  INSTALLATION INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  D51806  eaton-contactors- accessory-dilem-system- overview.eps		
eaton-tripping-devices- mounting-diler-contactor- relay-symbol.eps  ECAD MODEL  ETN.051806.edz  INSTALLATION INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  eaton-contactors- accessory-dilem-system- overview.eps	DRAWINGS	
INSTALLATION INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND DATASHEETS  SYSTEM OVERVIEW  DA-CD-dil em  Eaton Specification Sheet - 051806  eaton-contactors- accessory-dilem-system- overview.eps		eaton-tripping-devices- mounting-diler-contactor-
INSTRUCTIONS  DA-CS-dil em  DA-CD-dil em  SPECIFICATIONS AND Eaton Specification Sheet - 051806  SYSTEM OVERVIEW  DA-CD-dil em  Eaton Specification Sheet - 051806  eaton-contactors- accessory-dilem-system- overview.eps	ECAD MODEL	ETN.051806.edz
MCAD MODEL  DA-CD-dil em  SPECIFICATIONS AND Eaton Specification Sheet -  DATASHEETS  051806  SYSTEM OVERVIEW  eaton-contactors- accessory-dilem-system- overview.eps		<u>IL03407009Z</u>
SPECIFICATIONS AND Eaton Specification Sheet -  DATASHEETS  SYSTEM OVERVIEW  DATASHEETS  Eaton Specification Sheet -  051806  eaton-contactors- accessory-dilem-system- overview.eps	MCAD MODEL	DA-CS-dil_em
DATASHEETS  051806  eaton-contactors- accessory-dilem-system- overview.eps	MCAD MODEL	DA-CD-dil_em
SYSTEM OVERVIEW  accessory-dilem-system- overview.eps		· · · · · · · · · · · · · · · · · · ·
	SYSTEM OVERVIEW	accessory-dilem-system-
WIRING DIAGRAMS  eaton-contactors-contact- dilem-wiring-diagram.eps	WIRING DIAGRAMS	

DADIATION	
RADIATION	
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	9000 mechanical Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads,

	resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	50 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	16 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	19 A
CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)	10 A

CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	60 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	9.56 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.39 W
SWITCHING TIME (AC OPERATED, N/O, WITH AUXILIARY CONTACT MODULE, CLOSING DELAY)	45 ms
APPLICATION	Mini Contactors for Motors and Resistive Loads
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	12 ms at 690 V AC
ARCING TIME  ELECTRICAL  CONNECTION TYPE OF  MAIN CIRCUIT	12 ms at 690 V AC  Screw connection
ELECTRICAL CONNECTION TYPE OF	
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  SCREWDRIVER SIZE	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  SCREWDRIVER SIZE  VOLTAGE TYPE	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver  AC
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  SCREWDRIVER SIZE  VOLTAGE TYPE DEGREE OF PROTECTION	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver  AC  IP20  As required (except vertical with terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  SCREWDRIVER SIZE  VOLTAGE TYPE  DEGREE OF PROTECTION  MOUNTING POSITION  NUMBER OF AUXILIARY CONTACTS (NORMALLY	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver  AC  IP20  As required (except vertical with terminals A1/A2 at the bottom)
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT  SCREWDRIVER SIZE  VOLTAGE TYPE  DEGREE OF PROTECTION  MOUNTING POSITION  NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)  NUMBER OF AUXILIARY CONTACTS (NORMALLY	Screw connection  0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver  AC IP20 As required (except vertical with terminals A1/A2 at the bottom)  0

OPEN CONTACT)	
RATED BREAKING CAPACITY AT 220/230 V	90 A
RATED BREAKING CAPACITY AT 380/400 V	90 A
RATED BREAKING CAPACITY AT 500 V	64 A
RATED BREAKING CAPACITY AT 660/690 V	42 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	400 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	400 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	440 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	440 V
COIL VOLTAGE	400-440 Vac, 50/60 Hz
CONTINUOUS AMPERE RATING	9 A
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	< 2 λ, < 1 failure at 100,000,000 Operations (at U <sub>e</sub> = 24 V DC, Umin = 17 V, Imin = 5.4 mA)
DUTY FACTOR	100 %
CHANGEOVER TIME	16 - 21 ms
OPERATION	Reversing
LIFESPAN, MECHANICAL	20,000,000 Operations 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 7,000,000 Operations (Coil 50/60 Hz) 200,000 Operations (at 240 V, AC-15)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)
POWER CONSUMPTION,	22 W, AC, Single-frequency

PICK-UP, 50 HZ	coil 50 Hz and Dual- frequency coil 50/60 Hz 25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
SAFE ISOLATION	300 V AC, Between coil and contacts, According to EN 61140 300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140 300 V AC, Between the contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	25 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 22 W, AC, Single-frequency coil 50 Hz and Dual- frequency coil 50/60 Hz
SCREW SIZE	M3.5, Terminal screw
POWER CONSUMPTION, SEALING, 50 HZ	1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 4.6 VA, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
POWER CONSUMPTION, SEALING, 60 HZ	1.8 W, AC, Single- frequency coil 50 Hz and Dual-frequency coil 50/60 Hz
RATED OPERATIONAL CURRENT (IE)	1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts in series) 2.5 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series) 2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>

SHOCK RESISTANCE	20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 EC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	15 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	1.2 Nm, Screw terminals
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 440 V (COS PHI TO IEC/EN 60947)	110 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	22 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-15,	3 A

380 V, 400 V, 415 V	
RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V	1.5 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	9 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	6.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	4.8 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	6.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	5 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	3.4 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	20 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL	22 A

CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	4.3 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	1.8 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.1 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.3 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	3 kW
RATED OPERATIONAL POWER (NEMA)	3.7 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	9.18 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.8 W
STRIPPING LENGTH (MAIN CABLE)	8 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE	14 ms

CONTACTS, CLOSING DELAY) - MIN	
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION	10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 500 V	20 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 500 V	10 A gG/gL
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	20 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	4.6 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	4 kW

ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	24 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



## **Eaton Corporation plc**

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









