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PRODUCT-DETAILS

## NF22E-11

# NF22E-11 24-60V50/60HZ 20-60VDC Contactor Relay



General Information	
Extended Product Type	NF22E-11
Product ID	1SBH137001R1122
EAN	3471523100114
Catalog Description	NF22E-11 24-60V50/60HZ 20-60VDC Contactor Relay
Long Description	The NF22E-11 is a 690 V IEC or 600 UL 4-pole contactor relay with screw terminals, used for switching auxiliary and control circuits.  Thanks to the AF technology, the contactor relay has a wide control voltage range (24 60 V 50/60 Hz and 20-60 V DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. NF contactor relays have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. These contactor relays include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads		
Instructions and Manuals	1SBC101027M680	
CAD Dimensional Drawing	2CDC001079B020	
Dimensions		
Product Net Width	45 mn	
Product Net Depth / Length	77 mn	
Product Net Height	86 mn	
Product Net Weight	0.27 kg	
Technical		
Number of Auxiliary Contacts NO		
Number of Auxiliary Contacts NC		
Standards	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-1	
Rated Operational Voltage	Auxiliary Circuit 690	
Rated Frequency (f)	Auxiliary Circuit 50 / 60 H Control Circuit 50 / 60 H	
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-5-1, Θ = 40 °C 16 a	
Rated Operational Current AC-15 (I <sub>e</sub> )	(500 V) 2 / (690 V) 2 / (24 / 127 V) 6 / (220 / 240 V) 4 / (400 / 440 V) 3 /	
Rated Short-time Withstand Current Low Voltage (I <sub>cw</sub> )	for 0.1 s 140 for 1 s 100	
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hou (DC-13) 900 cycles per hou	
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 6 A / 144 V (48 V) 2.8 A / 134 V (72 V) 1 A / 72 V (110 V) 0.55 A / 60 V (125 V) 0.55 A / 69 V (220 V) 0.27 A / 68 V (250 V) 0.27 A / 68 V (400 V) 0.15 A / 60 V (500 V) 0.13 A / 65 V	
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-5-1 690 \ acc. to UL/CSA 600 \	
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	6 k	
Maximum Mechanical Switching Frequency	6000 cycles per hou	
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 24 60 V 60 Hz 24 60 V DC Operation 20 60 V	
Operate Time	Between Coil De-energization and NC Contact Closing 13 98 m Between Coil De-energization and NO Contact Opening 11 95 m Between Coil Energization and NC Contact Opening 38 90 m	
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	Between Coil Energization and NO Contact Closing 40 95 ms
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup>
Auxiliary Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup>
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup>
	Rigid Solid 1/2x 1 2.5 mm <sup>2</sup>
	Rigid Stranded 1/2x 1 2.5 mm <sup>2</sup>
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup>
Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup>
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup>
	Rigid Solid 1/2x 1 2.5 mm <sup>2</sup>
	Rigid Stranded 1/2x 1 2.5 mm <sup>2</sup>
Wire Stripping Length	Auxiliary Circuit 10 mm
	Control Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals

## Technical UL/CSA

Connecting Capacity Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Auxiliary Circuit 11 in·lb
UL/CSA	Control Circuit 11 in·lb

#### Environmental

Close to Contactor for Storage -60 +80 °C
Near Contactor for Operation in Free Air -40 70 °C
Category B according to IEC 60947-1 Annex Q
Without Derating 3000 m
Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g

## **Material Compliance**

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

### **Certificates and Declarations**

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ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H24899C0
CB Certificate	CB_SE-93051M2
CCC Certificate	2020980303000185
CQC Certificate	CQC2019010303267993
Declaration of Conformity - CCC	CQC2011010303465426
Declaration of Conformity - CE	1SBD250005U1000
Declaration of Conformity - UKCA	1SBD250036U1000
DNV Certificate	DNV_TAE00001BV-5
EAC Certificate	EAC_RU C-FR ME77 B03544
GOST Certificate	GOST_POCCFR.ME77.B06804.pdf
KC Certificate	KC-HW02016-21031A
LR Certificate	LRS_LR2003684TA-02
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL_20180227_E252354_2_1
UL Listing Card	UL_E252354

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	79 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.27 kg
Package Level 1 EAN	3471523100114
Package Level 2 Units	box 27 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	14.58 kg
Package Level 3 Units	1296 piece

Classifications	
Object Classification Code	К
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching
E-Number (Finland)	3705813
E-Number (Sweden)	3211470

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## Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow NF\ Contactor\ Relays$ 

