

PRODUCT-DETAILS

NF22E-14 NF22E-14 250-500V50/60HZ-DC Contactor Relay



General Information	
Extended Product Type	NF22E-14
Product ID	1SBH137001R1422
EAN	3471523100145
Catalog Description	NF22E-14 250-500V50/60HZ-DC Contactor Relay
Long Description	The NF22E-14 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 (250 -500 V 50/60 Hz and 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	1SBC101027M6801	
CAD Dimensional Drawing	2CDC001079B0201	

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	86 mm
Product Net Weight	0.31 kg

Technical	
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Standards	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 508, CSA C22.2 No. 14-13
Rated Operational Voltage	Auxiliary Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, Θ = 40 °C 16 A
Rated Operational Current AC-15 (I _e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	for 0.1 s 140 A for 1 s 100 A
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Rated Operational Current DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Insulation Voltage (Ui)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Withstand Voltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 V
Operate Time	Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms

	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 ²
Auxiliary Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm ²
	Flexible with Insulated Ferrule 2x 0.75 1.5 mm ²
	Rigid Solid 1/2x 1 2.5 mm ²
	Rigid Stranded 1/2x 1 2.5 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Control Circuit	Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ²
	Rigid Solid $1/2x 1 \dots 2.5 \text{ mm}^2$
	Rigid Stranded $1/2x1 \dots 2.5 \text{ mm}^2$
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	
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Ambient Air	Close to Contactor for Storage -60 +80 °C

Ambient Air	Close to Contactor for Storage -60 +80 °C
Temperature	Near Contactor for Operation in Free Air -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Without Der Altitude Permissible	
Resistance to Shock acc. to IEC 60068-2-27	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
Resistance to Vibrations	4g Closed Position & 2g Open position 5 300 Hz

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

С	Container Information Package Level 1 Units			
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-			1.4.1.10.1.1	

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	0.31 kg
Package Level 1 EAN	3471523100145
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	16.74 kg
Package Level 3 Units	1296 piece

Classifications	
Object Classification	К
Code	
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	4763 >> Power contactor, DC switching
Code (IGCC)	
E-Number (Finland)	3706402
E-Number (Sweden)	3211449

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Subject to change without notice

Categories

 $\mathsf{Low}\ \mathsf{Voltage}\ \mathsf{Products}\ \mathsf{and}\ \mathsf{Systems}\ \to\ \mathsf{Control}\ \mathsf{Products}\ \to\ \mathsf{Contactors}\ \to\ \mathsf{Block}\ \mathsf{Contactors}\ \to\ \mathsf{NF}\ \mathsf{Contactor}\ \mathsf{Relays}$

