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PRODUCT-DETAILS

NFZ31E-22 NFZ31E-22 48-130V50/60HZ-DC Contactor Relay



General Information

 Extended Product Type
 NFZ31E-22

 Product ID
 1SBH136001R2231

 EAN
 3471523101821

Catalog Description

NFZ31E-22 48-130V50/60HZ-DC Contactor Relay

NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor relays include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. NF contactor relays can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change NFZ contactor relays allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. NFZ contactor relays withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz NFZ contactor relays have built-in surge protection and do not require additional surge suppressors - Poles: 4-pole contactor relays (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side) - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Long Description

Ordering

Minimum Order Quantity 1 piece
Customs Tariff Number 85364900

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Popular Downloads	
Instructions and Manuals	1SBC101027M6801
CAD Dimensional	2CDC001079B0201
Drawing	
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	3
Number of Auxiliary Contacts NC	1
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, O = 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 / 65 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage (U_c)	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 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 Auxiliary Circuit	Flexible with Ferrule $1/2x\ 0.75\\ 2.5\ mm^2$ Flexible with Insulated Ferrule $1x\ 0.75\\ 2.5\ mm^2$ Flexible with Insulated Ferrule $2x\ 0.75\\ 1.5\ mm^2$
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		Rigid Solid 1/2x 1 2.5 mm²
Connecting Connects		gid Stranded 1/2x 1 2.5 mm ² h Ferrule 1/2x 0.75 2.5 mm ²
Connecting Capacity Control Circuit		ted Ferrule 1/2x 0.75 2.5 mm²
	Flexible with Insula	ted Ferrule 2x 0.75 1.5 mm ²
	Ric	Rigid Solid 1/2x 1 2.5 mm² gid Stranded 1/2x 1 2.5 mm²
Vire Stripping Length	TAIL	Auxiliary Circuit 10 mm
		Control Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 6 acc. to IEC 60529, IEC 60947-1,	
Terminal Type	acc. to IEC 00323, IEC 00347-1,	Screw Terminals
Technical UL/CSA		
Connecting Capacity		Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Ri	igid Stranded 1/2x 18-14 AWG
Fightening Torque JL/CSA		Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb
For deap and a state		
Environmental	21	
Ambient Air Temperature		actor for Storage -60 +80 °C eration in Free Air -40 70 °C
Climatic Withstand	•	rding to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible		Without Derating 3000 m
Resistance to Shock acc.	Clo	osed, Shock Direction: B1 25 g
o IEC 60068-2-27		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	4q Closed Position 8	2q Open position 5 300 Hz
Material Compliance		
Conflict Minerals		9AKK108467A5658
Reporting Template		
CMRT)		20MT2024 000202
REACH Declaration		2CMT2021-006202
RoHS Information	Fallo	2CMT2021-006277
RoHS Status	FOII0'	wing EU Directive 2011/65/EU
Foxic Substances Control Act - TSCA		2CMT2023-006525
NEEE B2C / B2B		Business To Business
NEEE Category	5. Small Equipment (No External	Dimension More Than 50 cm)
Certificates and Declarations		
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

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EAC Certificate	EAC_RU C-FR ME77 B03544
GOST Certificate	GOST_POCCFR.ME77.B07174.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

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	3471523101821
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 Code	K
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)	3706412
E-Number (Sweden)	3211460

Categories

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