

PRODUCT-DETAILS

NFZ40E-21 NFZ40E-21 24-60V50/60HZ 20-60VDC Contactor Relay



General Information

Extended Product Type	NFZ40E-21
Product ID	1SBH136001R2140
EAN	3471523101616

Catalog Description

NFZ40E-21 24-60V50/60HZ 20-60VDC Contactor Relay

Long Description

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 - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available

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

UNSPSC	39121500
E-Number (Sweden)	3211454

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	0.31 kg
Package Level 1 EAN	3471523101616
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

Certificates and Declarations (Document Number) **ABS** Certificate ABS_15-GE1349500-PDA_90682247 **BV** Certificate BV_2634H24899B0 **CB** Certificate CB_SE-93051 **CCC** Certificate CCC_2011010303465426 UL_20180227_E252354_2_1 cUL Certificate 1SBD250005U1000 **Declaration of Conformity** - CE DNV-GL_TAE00001BV-3 **DNV** Certificate **DNV GL Certificate** DNV-GL_TAE00001BV-3 EAC_RU C-FR ME77 B01006 **EAC** Certificate **Environmental Information** 1SBD250151E1000 **GL** Certificate DNV-GL_TAE00001BV-3 **GOST Certificate** GOST_POCCFR.ME77.B07174.pdf Instructions and Manuals 1SBC101027M6801 LR Certificate LRS_C1400038 RINA Certificate RINA_ELE240318XG **RMRS** Certificate RMRS_1802702280 RoHS Information 1SBD250005U1000 UL_20130206-E252354-2-1 **UL** Certificate **UL Listing Card** UL_E252354

Technical UL/CSA		
Tightening Torque	Auxiliary Circuit 11 IA	
UL/CSA	Control Circuit 11 IA	

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex C
Maximum Operating Altitude Permissible	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40 Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40
RoHS Status	Following EU Directive 2011/65/EU
Technical	
Number of Auxiliary Contacts NO	4
Number of Auxiliary Contacts NC	C
Standards	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
Rated Operational Voltage	Main Circuit 690 V Auxiliary Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-15 (I _e)	(220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A
Rated Short-time Withstand Current (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)	(125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 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 (U_i)	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 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 24 60 V 50 Hz / 60 Hz 24 60 V 60 Hz 24 60 V

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	DC Operation 20 60 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
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Rigid 1/2x 1 2.5 mm ²
Connecting Capacity Control 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 Rigid 1/2x 1 2.5 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 IP40 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	86 mm
Product Net Weight	0.31 kg
Popular Downloads	
Instructions and Manuals	1SBC101027M6801
Ordering	
	4 = 1-2-2
Minimum Order Quantity	1 piece

Categories

Customs Tariff Number

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Block Contactors}$

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