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PRODUCT-DETAILS

NFZ22EK-30 NFZ22EK-30 24VDC Contactor Relay



General Information	
Extended Product Type	NFZ22EK-30
Product ID	1SBH136005R3022
EAN	3471523153394
Catalog Description	NFZ22EK-30 24VDC Contactor Relay
Long Description	NFZK contactor relays are used for switching auxiliary and control circuits. NFZK contactors relays with coil 30 include a 24 V DC electronic coil interface with a built-in surge suppression, obtaining a reduced holding coil consumption up to 1.7 W for a low panel energy consumption and a direct control by PLC-output ≥ 250 mA 24 V DC, without need of additional interface relay.Only NFZ30 contactor relays need to respect the polarity on the coil terminals (A1+ and A2-). NFZK include Push-in Spring terminals. Only one push is all you need for extremely fast wiring: faster than ever installation, easier than ever wiring, reliable as ever connections 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) - Accessories: a wide range of accessories is available.

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Minimum Order Quantity 1 piece
Customs Tariff Number 85364900

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Popular Downloads	
Instructions and Manuals	1SBC101054M6801
CAD Dimensional <u>Drawing</u>	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	97 mm
Product Net Height	92.3 mm
Product Net Weight	0.435 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 Main Circuit 690 V
Rated Frequency (f)	Auxiliary 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 / 68 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W
Rated Insulation Voltage	(600 V) 0.1 A / 60 W acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
(U _i) Rated Impulse Withstand Voltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage (U _c)	DC Operation 24 V
Coil Consumption	Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W
Operate Time	Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NO Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 20 35 ms Between Coil Energization and NO Contact Closing 27 53 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 0.5 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm ²

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	Flexible 1/2x 0.5 2.5 mm ²
Connecting Capacity Control Circuit	Rigid Solid 1/2x 1 2.5 mm² Flexible with Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm²
Wire Stripping Length	Rigid Solid 1/2x 1 2.5 mm² Auxiliary Circuit 10 mm
Degree of Protection	Control Circuit 10 mm acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Terminal Type	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 Push-in Spring Terminals
Technical UL/CSA	
Connecting Capacity Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG
Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 70 °C Near Contactor for Operation in Free Air (0.85 1.1 Uc) -40 +60 °C Near Contactor for Operation in Free Air (Uc) -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Vibrations	4q Closed Position & 2q Open position 5 300 Hz
Material Compliance Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status Toxic Substances Control Act - TSCA	Following EU Directive 2011/65/EU 2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
Certificates and Declarations	
ABS Certificate	ABS_20-2060694-PDA
CB Certificate	CB_SE-93051M2
CCC Certificate	2020980303000185
CQC Certificate Declaration of Conformity	CQC2019010303267993 CQC2011010303465426
- CCC Declaration of Conformity	1SBD250005U1000
- CE Declaration of Conformity - UKCA	1SBD250036U1000
DNV Certificate	DNV TAE00001BV-5
KC Certificate	KC-HW02016-21029A
LR Certificate	LRS_LR2003684TA-02
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL 20180227 E252354 2 1

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Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	96 mm
Package Level 1 Depth / Length	112 mm
Package Level 1 Height	50 mm
Package Level 1 Gross Weight	0.467 kg
Package Level 1 EAN	3471523153394
Package Level 2 Units	crate 12 piece
Package Level 2 Width	245 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	153 mm
Package Level 2 Gross Weight	5.6 kg

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	39120000

Categories

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

