NFZ80E-30 1/5



PRODUCT-DETAILS

NFZ80E-30

NFZ80E-30 24VDC Contactor Relay



General Information	
Extended Product Type	NFZ80E-30
Product ID	1SBH136001R3080
EAN	3471523101999
Catalog Description	NFZ80E-30 24VDC Contactor Relay
Long Description	NFZ contactor relays are used for switching auxiliary and control circuits. NFZ contactor 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-). Poles: 8-pole contactor relays with a non-removable front-mounted auxiliary contact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side).

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Minimum Order Quantity 1 piece

NFZ80E-30 2/5

Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101053M6803
CAD Dimensional Drawing	2CDC001079B020:
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	130.5 mm
Product Net Height	86 mm
Product Net Weight	0.49 kg
Technical	
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	0
Standards	IEC/EN 60947-1, IEC/EN 60947-5-1, UL 60335-2-40 LZGH2 A2L, UL 508, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 14-13
Rated Operational Voltage	Auxiliary Circuit 690 \
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, ⊖ = 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 hou (DC-13) 900 cycles per hou
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
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 690 \ acc. to UL/CSA 600 \
Rated Impulse Withstand Voltage (U _{imp})	6 k\
Maximum Mechanical Switching Frequency	6000 cycles per hou
Rated Control Circuit Voltage (U _c)	DC Operation 24 V
Operate Time	Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NO Contact Opening 17 29 ms

NFZ80E-30 3/5

	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	Flexible with Ferrule 1/2x 0.75 2.5 mm²
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 mm²
Connecting Capacity	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 2.5 mm ²
	Rigid Stranded 1/2x 1 2.5 mm²
Wire Stripping Length	Auxiliary Circuit 10 mm
., 5	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	Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Auxiliary Circuit 11 in-lb
III /CSA	Control Circuit 11 in lb

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 Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
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 and Amendment 2015/863 July 22, 2019
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)

ABB EcoSolutions	
Environmental Product	1SBD250584E3000
Declaration - EPD	

NFZ80E-30 4/5

Certificates and Declarations		
A2L Certificate – UL	9AKK108469A4900;9AKK108469A4902	
ABS Certificate	ABS_20-2060694-PDA	
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	
RINA Certificate	RINA_ELE142224XG	
RMRS Certificate	RMRS_1802702280	
UL Certificate	UL_20180227_E252354_2_1	

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	96 mm
Package Level 1 Depth / Length	145 mm
Package Level 1 Height	50 mm
Package Level 1 Gross Weight	0.54 kg
Package Level 1 EAN	3471523101999
Package Level 2 Units	crate 12 piece
Package Level 2 Width	51 mm
Package Level 2 Depth / Length	98 mm
Package Level 2 Height	148 mm
Package Level 2 Gross Weight	6.48 kg
Package Level 3 Units	576 piece

Classifications	
Object Classification Code	К
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

NFZ80E-30 5/5

Categories

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

