

PRODUCT-DETAILS

NFZ31EK-20 NFZ31EK-20 12-20VDC Contactor Relay



Conoral	Information
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Extended Product Type	NFZ31EK-20
Product ID	1SBH136005R2031
EAN	3471523153400

Catalog Description

NFZ31EK-20 12-20VDC Contactor Relay

Long Description

NFZ..K 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. Only NFZ..-20 contactor relays need to respect the polarity on the coil terminals (A1+ and A2-). NFZ...K include Pushin 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.

Ordering

Minimum Order Quantity 1 piece

NFZ31EK-20	
Customs Tariff Number	85364900
Popular Downloads	
Instructions and Manuals	1SBC101054M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	92.3 mm
Product Net Weight	0.315 kg
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 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	(500 V) 2 A
AC-15 (I _e)	(690 V) 2 A (24 / 127 V) 6 A
	(220 / 240 V) 4 A
Dated Chart time	(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	(24 V) 6 A / 144 W
DC-13 (I _e)	(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 (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	6000 cycles per hour
Switching Frequency	

Switching Frequency

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Rated Control Circuit Voltage (U _c)		DC Operation 12 20 V
Operate Time	Between Coil De-energization and N Between Coil De-energization and N Between Coil Energization and N Between Coil Energization and N	O Contact Opening 11 95 ms C Contact Opening 38 90 ms
Mounting on DIN Rail	•	flounting Rail) acc. to IEC 60715 flounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2	2 x M4 screws placed diagonally
Connecting Capacity Auxiliary Circuit		with Ferrule 1/2x 0.5 2.5 mm² ated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm²
Connecting Capacity Control Circuit		with Ferrule 1/2x 0.5 2.5 mm ² ated Ferrule 1/2x 0.5 1.5 mm ² Flexible 1/2x 0.5 2.5 mm ² Rigid Solid 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 acc. to IEC 60529, IEC 60947-1	
Terminal Type		Push-in Spring Terminals
Auxiliary Circuit UL/CSA Connecting Capacity Control Circuit UL/CSA		Rigid Solid 1/2x 18-14 AWG
Environmental Ambient Air Temperature	Close to Con	stactor for Storage -60 +80 °C
Ambient Air Temperature	Near Contactor for Operation in Free A	peration in Free Air -40 70 °C
Climatic Withstand	Category B acc	cording to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible		Without Derating 3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g clo	osed position / 2 g open position
RoHS Status	Foll	lowing EU Directive 2011/65/EU
Certificates and Declarations		
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		1SBD250005U1000
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- CE	
Declaration of Conformity - UKCA	1SBD250036U1000
DNV Certificate	DNV_TAE00001BV-5
KC Certificate	KC-HW02016-21030A
LR Certificate	LRS_LR2003684TA
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL_20180227_E252354_2_1

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	93 mm
Package Level 1 Depth / Length	86 mm
Package Level 1 Height	45 mm
Package Level 1 Gross Weight	0.33 kg
Package Level 1 EAN	3471523153400
Package Level 2 Units	box 21 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	14.85 kg
Package Level 3 Units	1080 piece

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
ETIM 8	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching
E-Number (Finland)	3708000

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors



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