NFZ53EK-30 1/4



PRODUCT-DETAILS

NFZ53EK-30 24VDC Contactor Relay



Extended Product Type	NFZ53EK-30
Product ID	1SBH136005R3053
EAN	3471523153899

Catalog Description

NFZ53EK-30 24VDC Contactor Relay

NFZ..K contactor relays are used for switching auxiliary and control circuits. NFZ..K 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 NFZ..-30 contactor relays need to respect the polarity on the coil terminals (A1+ and A2-). NFZ..K 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: 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

Long Description

Ordering

Minimum Order Quantity 1 piece
Customs Tariff Number 85364900

NFZ53EK-30 2/4

Popular Downloads	
Instructions and Manuals	1SBC101054M6801
CAD Dimensional <u>Drawing</u>	2CDC001079B0201
Dimensions	
Dimensions	
Product Net Width Product Net Depth /	45 mm 130.5 mm
Length	130.3 11111
Product Net Height	92.3 mm
Product Net Weight	0.49 kg
Technical	
Number of Auxiliary Contacts NO	5
Number of Auxiliary Contacts NC	3
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 / 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 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

NFZ53EK-30 3/4

	Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm²
Connecting Capacity	Flexible with Ferrule 1/2x 0.5 2.5 mm ²
Control Circuit	Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm ²
	Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm²
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 IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Push-in Spring Terminals
Technical UL/CSA	
Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	
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 (U.85 1.1 OC) -40 70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating	Without Derating 3000 m
Altitude Permissible Resistance to Vibrations	4q Closed Position & 2q Open position 5 300 Hz
resistance to vibrations	44 Closed Position & 24 Open position 3 300 Hz
Material Compliance	
Material Compliance Conflict Minerals	9AKK108467A5658
Conflict Minerals Reporting Template	9AKK108467A5658
Conflict Minerals Reporting Template (CMRT)	
Conflict Minerals Reporting Template (CMRT) REACH Declaration	2CMT2021-006202
Conflict Minerals Reporting Template (CMRT)	2CMT2021-006202 2CMT2021-006277
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control	2CMT2021-006202
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525
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Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm)
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA CB_SE-93051M2
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA CB_SE-93051M2 20209803030000185
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate Declaration of Conformity	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA CB_SE-93051M2 2020980303000185 CQC2019010303267993
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA CB_SE-93051M2 2020980303000185 CQC2019010303267993 CQC2011010303465426
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS 20-2060694-PDA CB_SE-93051M2 2020980303000185 CQC2019010303267993 CQC2011010303465426
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Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate RINA Certificate RINA Certificate	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS_20-2060694-PDA CB_SE-93051M2 2020980303000185 CQC2019010303267993 CQC2011010303465426 1SBD250005U1000 1SBD250005U1000 DNV_TAE00001BV-5 LRS_LR2003684TA-02 RINA_ELE240318XG
Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV Certificate LR Certificate LR Certificate	2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm) ABS 20-2060694-PDA CB_SE-93051M2 2020980303000185 CQC2019010303267993 CQC2011010303465426 1SBD250005U1000 1SBD250036U1000 DNV_TAE00001BV-5 LRS_LR2003684TA-02

NFZ53EK-30 4/4

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	0.514 kg
Package Level 1 EAN	3471523153899
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	6.2 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

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

