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PRODUCT-DETAILS

NF71EK-11 NF71EK-11 24-60V50/60HZ 20-60VDC Contactor Relay



General Information	
Extended Product Type	NF71EK-11
Product ID	1SBH137005R1171
EAN	3471523152816
Catalog Description	NF71EK-11 24-60V50/60HZ 20-60VDC Contactor Relay
Long Description	The NF71EK-11 is a 690 V IEC or 600 UL 8-pole contactor relay with Push-in Spring terminals, used for switching auxiliary and control circuits. Only one push is all you need for extremely fast wiring: faster than ever installation, easier than ever wiring, reliable as ever connections. Thanks to the AF technology, the contactor relay has a wide control voltage range (24-60 V 50/60 Hz and 20-60 V DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. NF contactor relays have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. These contactor relays include mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and are side-marked with the "Mechanically Linked" symbol.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

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Popular Downloads	
Instructions and Manuals	1SBC101054M6801
CAD Dimensional Drawing	2CDC001079B0201
D'	
Dimensions	
Product Net Width Product Net Depth / Length	45 mm 110.5 mm
Product Net Height Product Net Weight	92.3 mm 0.33 kg
Technical	
Number of Auxiliary Contacts NO Number of Auxiliary	7
Contacts NC	
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 Control 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 Rated Operational Current DC-13 (I _e)	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour (24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 69 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.15 A / 60 W (400 V) 0.13 A / 65 W (500 V) 0.13 A / 65 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)	50 Hz 24 60 V 60 Hz 24 60 V 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
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 $1/2x \ 0.5 \dots 2.5 \ mm^2$ Flexible with Insulated Ferrule $1/2x \ 0.5 \dots 1.5 \ mm^2$
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	Flexible 1/2x 0.5 2.5 mm ²
	Rigid Solid 1/2x 1 2.5 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.5 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm ²
Control Circuit	Flexible with insulated Ferrule 1/2x 0.5 1.5 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 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.c) -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
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Material Compliance	
Conflict Minerals	9AKK108467A5658
Reporting Template (CMRT)	
REACH Declaration	2CMT2021-006202
RoHS Information	ZOWI ZOZI GOOZOZ
NOTO INIOINIAUON	2CMT2021-006277
RoHS Status	
RoHS Status Toxic Substances Control	2CMT2021-006277
RoHS Status Toxic Substances Control Act - TSCA	2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B	2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business
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RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category	2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations	2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business 5. Small Equipment (No External Dimension More Than 50 cm)
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate	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
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate	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
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate	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
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate CQC Certificate	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
RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations ABS Certificate CB Certificate CCC Certificate	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
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	2CMT2021-006277 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
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	2CMT2021-006277 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
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	2CMT2021-006277 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
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	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
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	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 DNV_TAE00001BV-5
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	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

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Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	91 mm
Package Level 1 Depth / Length	111 mm
Package Level 1 Height	45 mm
Package Level 1 Gross Weight	0.349 kg
Package Level 1 EAN	3471523152816
Package Level 2 Units	box 18 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	15.705 kg
Package Level 3 Units	1080 piece

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	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching
E-Number (Finland)	3707970

Categories

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

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