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PRODUCT-DETAILS

NF40EK-14 NF40EK-14 250-500V50/60HZ-DC Contactor Relay



Extended Product Type	NF40EK-14
Product ID	1SBH137005R1440
EAN	3471523152441

Catalog Description

NF40EK-14 250-500V50/60HZ-DC Contactor Relay

NF..K contactor relays are used for switching auxiliary and control circuits. NF contactor relays include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 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. NF contactor relays have built-in surge protection and do not require additional surge suppressors. NF..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: 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.

Long Description

Ordering

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	77 mm
Product Net Height	92.3 mm
Product Net Weight	0.325 kg
Technical	
Number of Auxiliary Contacts NO	4
Number of Auxiliary Contacts NC	0
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 (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 / 69 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)	(600 V) 0.1 A / 60 W 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 250 500 V 60 Hz 250 500 V DC Operation 250 500 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 1.5 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 $0.5 \dots 2.5 \text{ mm}^2$ Flexible with Insulated Ferrule 1/2x $0.5 \dots 1.5 \text{ mm}^2$

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	Flexible 1/2x 0.5 2.5 mm ²
Connecting Capacity	Rigid Solid 1/2x 1 2.5 mm² Flexible with Ferrule 1/2x 0.5 2.5 mm²
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 Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG
Control Circuit OL/CSA	
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
	4g Closed Position & 2g Open position 5 300 Hz
Resistance to Vibrations	
Material Compliance Conflict Minerals Reporting Template	9AKK108467A5658
Material Compliance Conflict Minerals	
Material Compliance Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information ROHS Status Toxic Substances Control	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information RoHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information ROHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B	9AKK108467A5658 2CMT2021-006202 2CMT2021-006277 Following EU Directive 2011/65/EU 2CMT2023-006525 Business To Business
Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration RoHS Information ROHS Status Toxic Substances Control Act - TSCA WEEE B2C / B2B WEEE Category Certificates and Declarations	9AKK108467A5658 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)
Material Compliance 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	9AKK108467A5658 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
Material Compliance 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	9AKK108467A5658 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
Material Compliance 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	9AKK108467A5658 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
Material Compliance 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	9AKK108467A5658 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
Material Compliance 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	9AKK108467A5658 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
Material Compliance 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	9AKK108467A5658 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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Material Compliance 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 KC Certificate LR Certificate	9AKK108467A5658 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 KC-HW02016-21031A LRS_LR2003684TA-02
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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	0.34 kg
Package Level 1 EAN	3471523152441
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	15.3 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)	3707948
E-Number (Sweden)	3210639

Categories

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

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