

PRODUCT-DETAILS

NF71E-12

NF71E-12 48-130V50/60HZ-DC Contactor Relay



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Ganara	l Inform	ation

Extended Product Type	NF71E-12
Product ID	1SBH137001R1271
EAN	3471523100428

Catalog Description

NF71E-12 48-130V50/60HZ-DC Contactor Relay

Long Description

NF 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. - 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) - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Instructions and 1SBC101027M6801 Manuals

Product Net Peight	Dimensions	
Length	Product Net Width	45 mm
Technical	Product Net Depth / Length	110.5 mm
Number of Auxiliary Contacts NO	Product Net Height	86 mm
Number of Auxiliary Contacts NO Number of Auxiliary Contacts NC Standards Rated Operational Voltage Rated Operational Auxiliary Circuit 690 \ Main	Product Net Weight	0.32 kg
Contacts NO	 Technical	
Standards IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°12 Rated Operational	Number of Auxiliary Contacts NO	7
Rated Operational Auxiliary Circuit 690 \ Main Main Mechanical 6000 cycles per hous 600 \ Main Main Mechanical 6000 cycles 690	Number of Auxiliary Contacts NC	1
Main Circuit 690	Standards	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
Conventional Free-air	Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Thermal Current (1th) (500 V) 2 Rated Operational (500 V) 2 (24 / 127 V) 6 (260 V) 2 / (220 / 240 V) 4 (201 / 240 V) 4 (20	Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Current AC-15 (le)	Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 16 A
Withstand Current (Icw) for 1 s 100 A Maximum Electrical (AC-15) 1200 cycles per hou Switching Frequency (BC-13) 900 cycles per hou Rated Operational (24 V) 6 A / 144 W Current DC-13 (I _e) (28 V) 2.8 A / 134 W GUID VI J A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 66 W (200 V) 0.13 A / 65 W GOOV 9.0 1.3 A / 65 W (500 V) 0.13 A / 65 W Rated Insulation Voltage acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V Rated Impulse acc. to UL/CSA 600 V Withstand Voltage (U _{imp}) Acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V Maximum Mechanical 6000 cycles per hou Switching Frequency 6 K Rated Control Circuit 50 Hz / 60 Hz 48 130 V Voltage (U _c) 50 Hz / 60 Hz 48 130 V Operate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil Energization and NO Contact Opening 11 95 ms Between Coil Energization and NO Contact Closing 40 95 ms Connecting Capacity Flexible with Insulated Ferrule 1x 0.75 2.5 mm' Flexible with Insulated Ferrule 2x 0.7	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
Switching Frequency Rated Operational Current DC-13 (le) (24 V) 6 A / 144 W (12 V) 1.4 / 172 W (110 V) 0.55 A / 60 W (125 V) 0.27 A / 66 W (26 V) 0.27 A / 66 W (27 V) 0.27 A / 68 W (28 V) 0.27 A / 68 W (28 V) 0.27 A / 68 W (29 V) 0.27 A / 68 W (29 V) 0.27 A / 68 W (20 V) 0.13 A / 60 W (20 V) 0.13 A	Rated Short-time Withstand Current (I _{cw})	for 0.1 s 140 A for 1 s 100 A
Current DC-13 (le) (48 V) 2.8 A / 134 W (72 V) 1.A / 72 W (10 V) 0.55 A / 60 W (125 V) 0.27 A / 60 W (125 V)	Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
(Ui) acc. to UL/CSA 600 N Rated Impulse 6 kWithstand Voltage (Uimp)) Maximum Mechanical 6000 cycles per hour Switching Frequency Rated Control Circuit 50 Hz 48 130 N Voltage (Uc) 50 Hz / 60 Hz 48 130 N DC Operation	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 / 68 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W
Withstand Voltage (Uimp) Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (Uc) Operate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NC Contact Opening 11 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NO Contact Closing 40 95 ms Between Coil Energization and NO Contact Closing 40 95 ms Repair Circuit Flexible with Ferrule 1/2x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Connecting Capacity Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm	Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Switching Frequency Rated Control Circuit Voltage (Uc) So Hz 48 130 V 60 Hz 48 130 V 60 Hz 48 130 V Coperation 48 130 V DC Operation and NC Contact Closing 13 98 ms Between Coil De-energization and NC Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 18 90 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Control Circuit 10 mm Control Circuit 10 mm Control Circuit 10 mm Control Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40	Rated Impulse Withstand Voltage (U _{imp})	6 kV
Voltage (U _c) 50 Hz / 60 Hz 48 130 V 60 Hz 48 130 V 0 Deration 48 130 V 0 Derate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NC Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NC Contact Closing 40 95 ms Flexible with Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Connecting Capacity Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Control Circuit Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Control Circuit 10 mm	Maximum Mechanical Switching Frequency	6000 cycles per hour
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 NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Control Circuit 10 mm Control Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40	Rated Control Circuit Voltage (U _c)	50 Hz 48 130 V 50 Hz / 60 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V
Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 1.5 mm Flexible with Insulated Ferrule 1x 0.75 2.5 mm Rigid 1/2x 1 2.5 mm Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 mm Control Circuit Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm Rigid 1/2x 1 2.5 mm 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 IP40	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
Control Circuit Flexible with Insulated Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 1.5 mm Rigid 1/2x 1 2.5 mm 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 IP40	Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Rigid 1/2x 1 2.5 mm ²
Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40	Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Rigid 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 IP40 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

Terminal Type Screw Terminals

Technical UL/CSA

Tightening Torque	Auxiliary Circuit 11 IA
UL/CSA	Control Circuit 11 IA

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	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: B1 25 K40 Open, Shock Direction: B1 5 K40 Shock Direction: A 30 K40 Shock Direction: B2 15 K40 Shock Direction: C1 25 K40 Shock Direction: C2 25 K40
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

ABS Certificate	ABS_15-GE1349500-PDA_90682247
BV Certificate	BV_2634H24899B0
CB Certificate	CB_SE-93051
CCC Certificate	CCC_2011010303465426
cUL Certificate	UL_20180227_E252354_2_1
Declaration of Conformity - CE	1SBD250005U1000
DNV Certificate	DNV-GL_TAE00001BV-3
DNV GL Certificate	DNV-GL_TAE00001BV-3
EAC Certificate	EAC_RU C-FR ME77 B01006
Environmental Information	1SBD250152E1000
GL Certificate	DNV-GL_TAE00001BV-3
GOST Certificate	GOST_POCCFR.ME77.B06804.pdf
Instructions and Manuals	1SBC101027M6801
LR Certificate	LRS_C1400038
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
RoHS Information	1SBD250005U1000
UL Certificate	UL_20130206-E252354-2-1
UL Listing Card	UL_E252354

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	113 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.32 kg

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Package Level 1 EAN	3471523100428
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	11.52 kg
Package Level 3 Units	864 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
UNSPSC	39121500

Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

