# NF53E-14



#### Products + Low Voltage Products and Systems + Control Products + Contactors + Block Contactors

General Information	
Extended Product Type:	NF53E-14
Product ID:	1SBH137001R1453
EAN:	3471523100640
Catalog Description:	NF53E-14 250-500V50/60HZ-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 contro I voltage Uc min Uc max. Only four coils cover control voltages between 24500 V 50/60 Hz or 20500 V DC. NF contactor relays can manage lar ge control voltage variations. One coil can be used for different control volt ages used worldwide without any coil change. NF contactor relays have bu ilt-in surge protection and do not require additional surge suppressors Po les: 8-pole contactor relays with a non-removable front-mounted auxiliary c ontact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the c ontactor relay side) - Control Circuit: AC or DC operated - Accessories: a w ide range of Accessories is available.

## Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
Popular Downloads	
Data Sheet, Technical Information:	1SBC101431D0201
Instructions and Manuals:	1SBC101027M6801
Dimensions	
Product Net Width:	45 mm
Product Net Depth:	110.5 mm
Product Net Height:	86 mm
Product Net Weight:	0.360 kg
Technical	
Number of Auxiliary Contacts NO:	5
Number of Auxiliary Contacts NC:	3
Standards:	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
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 <sub>th</sub> ):	acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-15 (I <sub>e</sub> ):	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current (I <sub>cw</sub> ):	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 <sub>e</sub> ):	(110 V) 0.55 A / 60 A (125 V) 0.55 A / 69 A (220 V) 0.27 A / 60 A (24 V) 6 A / 144 A (250 V) 0.27 A / 68 A (400 V) 0.15 A / 60 A (48 V) 2.8 A / 134 A (500 V) 0.13 A / 65 A (600 V) 0.1 A / 60 A (72 V) 1 A / 72 A
Rated Insulation Voltage (U <sub>i</sub> ):	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	6 kV
Maximum Mechanical Switching Frequency:	6000 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> ):	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
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup> Rigid 1/2x 1 2.5 mm <sup>2</sup>
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 1.5 mm <sup>2</sup> Rigid 1/2x 1 2.5 mm <sup>2</sup>
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	Туре:	Screw Terminals
Environm	ental	
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 Permissil	n Operating Altitude ble:	3000 m
Resistan IEC 6006	ce to Vibrations acc. to 8-2-6:	5 300 Hz 4 g closed position / 2 g open position
Resistan 60068-2-2	ce to Shock acc. to IEC 27:	Closed, Shock Direction: B1 25 g Open, Shock Direction: B1 5 g Shock Direction: A 30 g Shock Direction: B2 15 g Shock Direction: C1 25 g Shock Direction: C2 25 g
Technical	UL/CSA	
-	ng Torque UL/CSA:	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb
Certificate	es and Declarations (De	ocument Number)
ABS Cert		ABS_15-GE1349500-PDA_90682247
BV Certif	icate:	BV_2634H24899B0
	icate:	BV_2634H24899B0 CB_SE-89845
BV Certif	icate:	BV_2634H24899B0
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#### **Container Information**

Package Level 1 Units:	1 piece
Package Level 1 Width:	87 mm
Package Level 1 Length:	113 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.36 kg
Package Level 1 EAN:	3471523100640
Package Level 2 Units:	36 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	300 mm
Package Level 2 Height:	315 mm
Package Level 2 Gross Weight:	12.96 kg
Package Level 3 Units:	864 piece

## Classifications

Object Classification Code:	κ
ETIM 4:	EC000196 - Contactor relay
ETIM 5:	EC000196 - Contactor relay
ETIM 6:	EC000196 - Contactor relay
UNSPSC:	39121500

