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PRODUCT-DETAILS

NF53E-14 NF53E-14 250-500V50/60HZ-DC Contactor Relay



General Information Extended Product Type	NF53E-14
Product ID	1SBH137001R1453
EAN	3471523100640
Catalog Description	NF53E-14 250-500V50/60HZ-DC Contactor Relay
Long Description	The NF53E-14 is a 690 V IEC or 600 UL 8-pole contactor relay with screw terminals, used for switching auxiliary and control circuits Thanks to the AF technology, the contactor relay has a wide control voltage range (250-500 V 50/60 Hz and 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
	05004000

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Popular Downloads	
Instructions and Manuals	1SBC101027M6801
CAD Dimensional <u>Drawing</u>	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	110.5 mm
Product Net Height	86 mm
Product Net Weight	0.36 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
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	(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 / 60 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 66 W (400 V) 0.15 A / 60 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 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 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 0.75 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

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	,	Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1/2x 1 2.5 mm²
Connecting Capacity Control Circuit	Flexible v Flexible with Insu	with Ferrule 1/2x 0.75 2.5 mm² ulated Ferrule 1x 0.75 2.5 mm²
		ulated Ferrule 2x 0.75 1.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1/2x 1 2.5 mm²
Vire Stripping Length	'	Auxiliary Circuit 10 mm Control Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN	
erminal Type	,	Screw Terminals
echnical UL/CSA		
Connecting Capacity		Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-14 AWG
rightening Torque JL/CSA		Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb
Environmental		
mbient Air Temperature	Near Contactor for C	ntactor for Storage -60 +80 °C Operation in Free Air -40 70 °C
Climatic Withstand	Category B ac	cording to IEC 60947-1 Annex Q
Maximum Operating Sltitude Permissible		Without Derating 3000 m
Resistance to Shock acc. o IEC 60068-2-27		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
Material Compliance		
Conflict Minerals Reporting Template CMRT)		9AKK108467A5658
REACH Declaration		2CMT2021-006202
RoHS Information		2CMT2021-006277
RoHS Status	Fo	llowing EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA		2CMT2023-006525
NEEE B2C / B2B		Business To Business
NEEE Category	5. Small Equipment (No Exterr	nal Dimension More Than 50 cm)
Certificates and Declarations		
ABS Certificate		ABS_20-2060694-PDA
BV Certificate		BV_2634H24899C0
CB Certificate CCC Certificate		CB_SE-93051M2 2020980303000185
CQC Certificate		CQC2019010303267993
Declaration of Conformity CCC		CQC2011010303465426
Declaration of Conformity CE		1SBD250005U1000
Declaration of Conformity UKCA		1SBD250036U1000
DNV Certificate		DNV_TAE00001BV-5
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EAC Certificate	EAC_RU C-FR ME77 B03544
GOST Certificate	GOST_POCCFR.ME77.B06804.pdf
LR Certificate	LRS_LR2003684TA-02
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
UL Certificate	UL_20180227_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	0.36 kg
Package Level 1 EAN	3471523100640
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	12.96 kg
Package Level 3 Units	864 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)	3706430

Categories

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

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