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PRODUCT-DETAILS

NF31E-14 NF31E-14 250-500V50/60HZ-DC Contactor Relay



General Information	
Extended Product Type	NF31E-14
Product ID	1SBH137001R1431
EAN	3471523100244
Catalog Description	NF31E-14 250-500V50/60HZ-DC Contactor Relay
Long Description	The NF31E-14 is a 690 V IEC or 600 UL 4-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
Customa Tariff Number	95264000

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Popular Downloads	
Instructions and Manuals	1SBC101027M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	86 mm
Product Net Weight	0.31 kg
Technical	
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	1
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	(500 V) 2 A
AC-15 (I _e)	(690 V) 2 A (24 / 127 V) 6 A
	(220 / 240 V) 4 A
Rated Short-time	(400 / 440 V) 3 A for 0.1 s 140 A
Withstand Current Low Voltage (I _{cw})	for 1 s 100 A
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Rated Operational Current	(24 V) 6 A / 144 W
DC-13 (I _e)	(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 / 60 W
	(250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W
	(500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 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 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm²

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		Dinid Onlid 1/0: 1 0 F2
	Ri	Rigid Solid 1/2x 1 2.5 mm² igid Stranded 1/2x 1 2.5 mm²
Connecting Capacity Control Circuit		ith Ferrule 1/2x 0.75 2.5 mm ² ated Ferrule 1x 0.75 2.5 mm ²
Control Circuit		ated Ferrule 1x 0.75 2.5 mm ²
		Rigid Solid 1/2x 1 2.5 mm ²
Alica Chrimmina I anath	RI	igid 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 acc. to IEC 60529, IEC 60947-1,	
Terminal Type	acc. to IEC 00029, IEC 00947-1,	Screw Terminals
Technical UL/CSA		
Connecting Capacity		Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA Tightening Torque	F	Rigid Stranded 1/2x 18-14 AWG Auxiliary Circuit 11 in·lb
UL/CSA		Control Circuit 11 in·lb
Environmental		
Ambient Air Temperature		tactor for Storage -60 +80 °C
Olimpain Wishnam d	•	peration in Free Air -40 70 °C
Climatic Withstand	Category B acco	ording to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible		Without Derating 3000 m
Resistance to Shock acc.	CI	osed, Shock Direction: B1 25 g
o IEC 60068-2-27		Open, Shock Direction: B1 5 g Shock Direction: A 30 g
		Shock Direction: A 30 g Shock Direction: B2 15 g
		Shock Direction: C1 25 g
Resistance to Vibrations	Ag Closed Position	Shock Direction: C2 25 g & 2g Open position 5 300 Hz
Material Compliance		
Conflict Minerals Reporting Template CMRT)		9AKK108467A5658
REACH Declaration		2CMT2021-006202
RoHS Information		2CMT2021-006277
RoHS Status	Follo	owing EU Directive 2011/65/EU
Foxic Substances Control Act - TSCA		2CMT2023-006525
NEEE B2C / B2B		Business To Business
WEEE Category	5. Small Equipment (No Externa	
Certificates and Declarations		
ABS Certificate		ABS_20-2060694-PDA
BV Certificate		BV_2634H24899C0
CB Certificate		CB_SE-93051M2
CCC Certificate		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
KC Certificate	KC-HW02016-21031A
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	79 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.31 kg
Package Level 1 EAN	3471523100244
Package Level 2 Units	box 27 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	16.74 kg
Package Level 3 Units	1296 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)	3706409
E-Number (Sweden)	3211453

Categories

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