

PRODUCT-DETAILS

NF31E-12

NF31E-12 48-130V50/60HZ-DC Contactor Relay



Genera	l Infoi	rmation

Extended Product Type	NF31E-12
Product ID	1SBH137001R1231
EAN	3471523100220
Catalog Description	NF31E-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: 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) - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Classifications Object Classification Code ETIM 4 EC000196 - Contactor relay ETIM 5 EC000196 - Contactor relay ETIM 6 EC000196 - Contactor relay ETIM 7 EC000196 - Contactor relay UNSPSC 39121500 E-Number (Sweden)

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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	0.27 kg
Package Level 1 EAN	3471523100220
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	14.58 kg
Package Level 3 Units	1296 piece

Certificates and Declarations (Docume	ent Number)
ABS Certificate	ABS_15-GE1349500-PDA_90682247
BV Certificate	BV_2634H24899B0
CB Certificate	CB_SE-89845
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	1SBD250151E1000
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

Technical UL/CSA	
Tightening Torque	

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

Shock Direction: A 30 K40

Shock Direction: B2 15 K40

Shock Direction: C1 25 K40

Shock Direction: C2 25 K40

Closed, Shock Direction: B1 25 K40

Open, Shock Direction: B1 5 K40

RoHS Status

Following EU Directive 2011/65/EU

Technical	
Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	1
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 _{th})	acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-15 (I _e)	(220 / 240 V) 4 A (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A
Rated Short-time Withstand Current (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)	(125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 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) Rated Impulse	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V 6 kV
Withstand Voltage (U _{imp})	
Maximum Mechanical Switching Frequency	6000 cycles per hour
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
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 Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m²
Connecting Capacity Control Circuit	Flexible with Ferrule $1/2x$ 0.75 2.5 m 2 Flexible with Insulated Ferrule $1x$ 0.75 2.5 m 2 Flexible with Insulated Ferrule $2x$ 0.75 1.5 m 2 Rigid $1/2x$ 1 2.5 m 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 IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	77 mm
Product Net Height	86 mm
Product Net Weight	0.27 kg

Popular Downloads

Instructions and	1SBC101027M6801
Manuals	

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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

