

Detailed information for: NF31E-11

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Data Sheet

Documentation

NF31E-11

General Information

Extended Product Type:	NF31E-11
Product ID:	1SBH137001R1131
EAN:	3471523100213
Catalog Description:	NF31E-11 24-60V50/60HZ 20-60VDC 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 U_c min. ... U_c 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. Note: NF..E-11 not suitable for a direct control by PLC-output. NF..E-11 type available in some countries: please consult your ABB representative.

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Across the Line Contactors



Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC101428D0201
Instructions and Manuals:	1SBC101027M6801

Dimensions

Product Net Width:	45 mm
Product Net Depth / Length:	77 mm

Product Net Height:	86 mm
Product Net Weight:	0.270 kg
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, $q = 40\text{ °C } 16\text{ A}$
Rated Operational Current AC-15 (I_e):	(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_{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):	(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 (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
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 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 24 ... 60 V 60 Hz 24 ... 60 V DC Operation 20 ... 60 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 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
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 IP20

Terminal Type: Screw Terminals

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 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

Tightening Torque UL/CSA: Auxiliary Circuit 11 in-lb
Control Circuit 11 in-lb

Certificates and Declarations (Document 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](#)

DNV GL Certificate: [DNV-GL_TAE00001BV](#)

EAC Certificate: [EAC_RU C-FR ME77 B01006](#)

Environmental Information: [1SBD250151E1000](#)

GOST Certificate: [GOST_POCCFR.ME77.B06804.pdf](#)

Instructions and Manuals: [1SBC101027M6801](#)

LR Certificate: [LRS_C1400038](#)

RINA Certificate: [RINA_ELE084013XG](#)

RMRS Certificate: [RMRS_1300132124](#)

RoHS Information: [1SBD251014E1000](#)

UL Certificate: [UL_20130206-E252354-2-1](#)

UL Listing Card: [UL_E252354](#)

Container Information

Package Level 1 Units: 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: 3471523100213

Package Level 2 Units:	54 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

Classifications

Object Classification Code:	K
E-number:	3211471
ETIM 4:	EC000196 - Contactor relay
ETIM 5:	EC000196 - Contactor relay
ETIM 6:	EC000196 - Contactor relay
ETIM 7:	EC000196 - Contactor relay

Contact information

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