

NF22E-11 24-60V50/60HZ 20-60VDC Contactor Relay



General Information

Extended Product Type	NF22E-11	
Product ID	1SBH137001R1122	
EAN	3471523100114	
Catalog Description	NF22E-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 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 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: NFE-11 not suitable for a direct control by PLC-output. NFE-11 type available in some countries: please consult your ABB representative.	

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

_

Popular Downloads

Data Sheet, Technical Information	1SBC101427D0201
Instructions and Manuals	1SBC101027M6801

Dimensions

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

Technical

Number of Auxiliary Contacts NO	2	
Number of Auxiliary Contacts NC	2	
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	

NF22E-11

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 (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 ($\rm U_c$)	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 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil 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 Ib	

Certificates and Declarations (Document Number)

ABS_15-GE1349500-PDA_90682247 BV 2634H24899B0
BV 2634H24899B0
-
CB_SE-89845
CCC_2010010304445624
UL_20180227_E252354_2_1
1SBD250005U1000
DNV-GL_TAE00001BV-3
DNV-GL_TAE00001BV-3
EAC_RU C-FR ME77 B01006
1SBD250151E1000
DNV-GL_TAE00001BV-3
GOST_POCCFR.ME77.B06804.pdf
1SBC101027M6801
LRS_C1400038
RINA_ELE084013XG
RMRS_1802702280
1SBD251014E1000
UL_20130206-E252354-2-1
UL_E252354

Container Information

1 piece	
87 mm	
79 mm	
47 mm	
0.27 kg	
3471523100114	
54 piece	
250 mm	
300 mm	
315 mm	
14.58 kg	
1296 piece	
	87 mm 79 mm 47 mm 0.27 kg 3471523100114 54 piece 250 mm 300 mm 315 mm 14.58 kg

Classifications

Object Classification Code	К
E-nummer	3211470
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay