

PRODUCT-DETAILS

NF40E-11 NF40E-11 24-60V50/60HZ 20-60VDC Contactor Relay



General Information	
Extended Product Type	NF40E-11
Product ID	1SBH137001R1140
EAN	3471523100015
Catalog Description	NF40E-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 - 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.

Classifications	
Object Classification Code	К
ETIM 4	EC000196 - Contactor relay
ETIM 5	EC000196 - Contactor relay
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
E-Number (Sweden)	3211472

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	3471523100015
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 (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-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	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

RoHS Status

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 Following EU Directive 2011/65/EU

Technical Number of Auxiliary 4 Contacts NO Number of Auxiliary 0 Contacts NC Standards IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14 **Rated Operational** Auxiliary Circuit 690 V Voltage Main Circuit 690 V Rated Frequency (f) Auxiliary Circuit 50 / 60 Hz Conventional Free-air acc. to IEC 60947-5-1, q = 40 °C 16 A Thermal Current (I_{th}) (220 / 240 V) 4 A **Rated Operational** Current AC-15 (I_e) (24 / 127 V) 6 A (500 V) 2 A (690 V) 2 A (400 / 440 V) 3 A Rated Short-time for 0.1 s 140 A Withstand Current (I_{cw}) for 1 s 100 A Maximum Electrical AC-15 1200 cycles per hour Switching Frequency DC-13 900 cycles per hour **Rated Operational** (125 V) 0.55 A / 69 W Current DC-13 (I) (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 acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V (U_i) **Rated Impulse** 6 kV Withstand Voltage (U_{imp}) Maximum Mechanical 6000 cycles per hour Switching Frequency Rated Control Circuit 50 Hz 24 ... 60 V Voltage (U_c) 60 Hz 24 ... 60 V DC Operation 20 ... 60 V Between Coil De-energization and NC Contact Closing 13 ... 98 ms **Operate Time** 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** Flexible with Ferrule 1/2x 0.75 ... 2.5 m² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 ... 1.5 m² Rigid 1/2x 1 ... 2.5 m² **Connecting Capacity** Flexible with Ferrule 1/2x 0.75 ... 2.5 m² **Control Circuit** Flexible with Insulated Ferrule 1x 0.75 ... 2.5 m² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 m² Rigid 1/2x 1 ... 2.5 m² Auxiliary Circuit 10 mm Wire Stripping Length 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