

Product Guide » ABB1SBH137001R1340

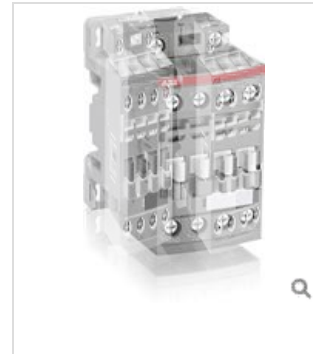
NF40E-13

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General Information

Extended Product Type:	NF40E-13
Product ID:	1SBH137001R1340
EAN:	3471523100039
Catalog Description:	NF40E-13 100-250V50/60HZ-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 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 - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Block Contactors

Ordering

EAN:	3471523100039
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85369085

Dimensions

Product Net Width:	45 mm
Product Net Depth:	77 mm
Product Net Height:	86 mm
Product Net Weight:	0.270 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	87 mm
Package Level 1 Length:	79 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.27 kg
Package Level 1 EAN:	3471523100039
Package Level 2 Units:	54 piece
Package Level 3 Units:	1296 piece

Technical

Number of Auxiliary Contacts NO:	4
Number of Auxiliary Contacts NC:	0
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, $q = 40^\circ\text{C}$ 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 (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (48 V) 2.8 A / 134 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 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 100...250 V 60 Hz 100...250 V DC Operation 100...250 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

Maximum Operating Altitude Permissible: 3000 m

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

Resistance to Vibrations acc. to IEC 60068-2-6: 5...300 Hz 4 g closed position / 2 g open position

RoHS Status: Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1

Technical UL/CSA

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

Certificates and Declarations (Document Number)

CB Certificate: CB_SE_70920A1M2

CCC Certificate: CCC_2011010303465426

cUL Certificate: UL_20091127-E252354-2-1

Declaration of Conformity - CE: 1SBD250166C2000

DNV Certificate: DNV_E11683

EAC Certificate: EAC_RU C-FR ME77 B01006

GL Certificate: GL_3786612HH

GOST Certificate: GOST_POCCFR.ME77.B06804.pdf

LR Certificate: LRS_C1400038

RINA Certificate: RINA_ELE084013XG

RMRS Certificate: RMRS_1300132124

RoHS Information: 1SBD251014E1000

Classifications

E-nummer: 3211456

ETIM 5.0: EC000196 - Contactor relay

UNSPSC: 39121500