

# NF40E-13



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

## General Information

<b>Extended Product Type:</b>	NF40E-13
<b>Product ID:</b>	1SBH137001R1340
<b>EAN:</b>	3471523100039
<b>Catalog Description:</b>	NF40E-13 100-250V50/60HZ-DC Contactor Relay
<b>Long Description:</b>	NF contactor relays are used for switching auxiliary and control circuits. NF contactor relays include an electronic coil interface accepting a wide control voltage $U_c \text{ min.} \dots U_c \text{ max.}$ 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.

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>ABS Certificate:</b>	ABS_15-GE1349500-PDA_90682247
<b>Ambient Air Temperature:</b>	Close to Contactor for Storage -60...+80 °C Near Contactor for Operation in Free Air -40 ... +70 °C
<b>Block Contactor Type:</b>	Contactor Relay
<b>CB Certificate:</b>	CB_SE_70920A1M2
<b>CCC Certificate:</b>	CCC_2011010303465426
<b>Climatic Withstand:</b>	Category B according to IEC 60947-1 Annex Q
<b>Coil Voltage Code:</b>	13
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 1...2.5 mm <sup>2</sup>
<b>Connecting Capacity Control Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup>
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-5-1, q = 40 °C 16 A
<b>Country of Origin:</b>	France (FR)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	1SBC101429D0201
<b>Declaration of Conformity - CE:</b>	1SBD250005U1000
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
<b>E-number:</b>	3211456
<b>EAC Certificate:</b>	EAC_RU C-FR ME77 B01006
<b>EAN:</b>	3471523100039
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Relays, contactors / Contactors
<b>EPLAN Function Definition:</b>	Coil / Coil, 2 connection points / Coil for power contactor A1_A2 NO contact / NO contact, 2 connection points / NO auxiliary contact 13_14 NO contact / NO contact, 2 connection points / NO auxiliary contact 23_24 NO contact / NO contact, 2 connection points / NO auxiliary contact 33_34 NO contact / NO contact, 2 connection points / NO auxiliary contact 43_44
<b>EPLAN Macro:</b>	9AKK106930A0692
<b>ETIM 4:</b>	EC000196 - Contactor relay

<b>ETIM 5:</b>	EC000196 - Contactor relay
<b>ETIM 6:</b>	EC000196 - Contactor relay
<b>Environmental Information:</b>	1SBD250151E1000
<b>GOST Certificate:</b>	GOST_POCCFR.ME77.B06804.pdf
<b>IIT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	1SBC101027M6801
<b>Invoice Description:</b>	NF40E-13 100-250V50/60HZ-DC Contactor Relay
<b>LR Certificate:</b>	LRS_C1400038
<b>Low Coil Consumption:</b>	No
<b>Maximum Electrical Switching Frequency:</b>	AC-15 1200 cycles per hour DC-13 900 cycles per hour
<b>Maximum Mechanical Switching Frequency:</b>	6000 cycles per hour
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Minimum Order Quantity:</b>	1 piece
<b>Mounted Auxiliary Contacts:</b>	4 NO, 0 NC
<b>Mounted Auxiliary Contacts 1st Stack:</b>	4 NO, 0 NC
<b>Mounted Auxiliary Contacts 2nd Stack:</b>	0 NO, 0 NC
<b>Mounting Position:</b>	Max. add-on N.C. auxiliary contacts: see accessory fitting details for a NF contactor relay
<b>Mounting Positions:</b>	1SBC500297F0000
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	4
<b>Object Classification Code:</b>	K
<b>Operate Time:</b>	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
<b>Order Multiple:</b>	1 piece
<b>Package Level 1 EAN:</b>	3471523100039
<b>Package Level 1 Gross Weight:</b>	0.27 kg
<b>Package Level 1 Height:</b>	47 mm
<b>Package Level 1 Length:</b>	79 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	87 mm
<b>Package Level 2 Height:</b>	315 mm
<b>Package Level 2 Length:</b>	300 mm
<b>Package Level 2 Units:</b>	54 piece
<b>Package Level 2 Width:</b>	250 mm
<b>Package Level 3 Units:</b>	1296 piece
<b>Product Main Type:</b>	NF
<b>Product Name:</b>	Block Contactor Relay
<b>Product Net Depth:</b>	77 mm
<b>Product Net Height:</b>	86 mm
<b>Product Net Weight:</b>	0.270 kg
<b>Product Net Width:</b>	45 mm
<b>Product Packing Type:</b>	Box
<b>RINA Certificate:</b>	RINA_ELE084013XG
<b>RMRS Certificate:</b>	RMRS_1300132124
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	50 Hz 100 ... 250 V

	60 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 / 60 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 690 V Main Circuit 690 V
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	for 0.1 s 140 A for 1 s 100 A
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	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
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5 ... 300 Hz 4 g closed position / 2 g open position
<b>RoHS Date:</b>	20090609
<b>RoHS Information:</b>	1SBD251014E1000
<b>RoHS Status:</b>	Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	NF40E-13 100-250V50/60HZ-DC Contactor Relay
<b>Standards:</b>	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	Auxiliary Circuit 1.2 N·m Control Circuit 1.2 N·m
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 11 in·lb Control Circuit 11 in·lb
<b>UL Certificate:</b>	UL_20130206-E252354-2-1
<b>UL Listing Card:</b>	UL_E252354
<b>UNSPSC:</b>	39121500
<b>Wire Stripping Length:</b>	Auxiliary Circuit 10 mm Control Circuit 10 mm
<b>DNV GL Certificate:</b>	DNV-GL_TAE00001BV

