NSL31ES-86

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

General Information

Extended Product Type:	NSL31ES-86
Product ID:	1SBH103004R8631
EAN:	3471523056961
Catalog Description:	NSL31ES-86 110VDC Contactor Relay
Long Description:	NSL... contactor relays are used for switching auxiliary circuits and control circuits. The NSL..S contactor relays are the spring terminal version of the NSL... range. - Poles and auxiliary contacts blocks: 4-pole contactor relay s, front-mounted add-on auxiliary contact blocks (mechanically-linked auxili ary contacts compliant with Annex L of IEC 60947-5-1 including the "Mech anically Linked" symbol on the contactor relay side) - Control circuit: DC op erated with solid core magnet circuit. The polarity on the coil terminals (A1 + and A2-) must be respected - Accessories: a wide range of accessories i s available NSL... contactors are fitted with low consumption DC coils and are suitable for a direct control by PLC outputs.

Ordering

Minimum Order Quantity:	40 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Instructions and Manuals:	1SBC101020M9701

Dimensions

Product Net Width:	45 mm
Product Net Depth:	72.5 mm
Product Net Height:	68 mm
Product Net Weight:	0.280 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 °C 10 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 A (125 V) 0.55 A / 69 A (220 V) 0.27 A / 60 A (24 V) 6 A / 144 A (250 V) 0.27 A / 68 A (48 V) 2.8 A / 134 A (72 V) 1 A / 72 A
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:	3600 cycles per hour
Rated Control Circuit Voltage (U_c):	DC Operation 110 V
Operate Time:	Between Coil De-energization and NC Contact Closing 15 ... 20 ms Between Coil De-energization and NO Contact Opening 13 ... 17 ms Between Coil Energization and NC Contact Opening 31 ... 53 ms Between Coil Energization and NO Contact Closing 36 ... 59 ms
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm² Rigid 1/2x 0.75 ... 2.5 mm²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm² Rigid 1/2x 0.75 ... 2.5 mm²
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:	Spring 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 3 g Closed position / 2 g Open position
Resistance to Shock acc. to IEC 60068-2-27:	Closed, Shock Direction: A 20 g Closed, Shock Direction: B1 15 g Closed, Shock Direction: C1 19 g Closed, Shock Direction: C2 14 g Open, Shock Direction: A 10 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 8 g Shock Direction: B2 10 g
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Certificates and Declarations (Document Number)

CB Certificate:	CB_CN_32453
CCC Certificate:	CCC_2007010305248106
Declaration of Conformity - CE:	1SBD250016U1000
Environmental Information:	1SBD250161E1000
GOST Certificate:	GOST_POCCCNME77B07821.pdf
Instructions and Manuals:	1SBC101020M9701
RoHS Information:	1SBD251008E1000
UL Certificate:	UL_220108-E312527A

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	78 mm
Package Level 1 Length:	80 mm
Package Level 1 Height:	48 mm
Package Level 1 Gross Weight:	0.28 kg
Package Level 1 EAN:	3471523056961
Package Level 2 Units:	40 piece
Package Level 2 Width:	250 mm
Package Level 2 Length:	315 mm
Package Level 2 Height:	195 mm
Package Level 2 Gross Weight:	12.500 kg
Package Level 3 Units:	960 piece

Classifications

Object Classification Code:	K

ETIM 4:	EC000196 - Contactor relay
ETIM 5:	EC000196 - Contactor relay
ETIM 6:	EC000196 - Contactor relay
UNSPSC:	39121500