NSL31E-81



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

General Information

Extended Product Type: NSL31E-81

Product ID: 1SBH103001R8131 **EAN**: 3471523056114

Catalog Description: NSL31E-81 24VDC Contactor Relay

Long Description: NSL... contactor relays are used for switching auxiliary circuits and control

circuits. - Poles and auxiliary contacts blocks: 4-pole contactor relays, front -mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 including the "Mechanically Linked" symbol on the contactor relay side) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available NSL... contactors are fitted with low consumption DC coils and are suit

able for a direct control by PLC outputs.

Ordering

Minimum Order Quantity: 1 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 (Ith):

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 24 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 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 0.75 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 0.75 2.5 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm Control Circuit 9 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
nvironmental	
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	Closed, Shock Direction: A 20 g
60068-2-27:	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

Technical UL/CSA

Tightening Torque UL/CSA: Auxiliary Circuit 9 in·lb

Control Circuit 9 in·lb

Certificates and Declarations (Document Number)

CB Certificate:	CB_CN_32453
CCC Certificate:	CCC_2007010305248106
Declaration of Conformity - CE:	1SBD250016U1000
Environmental Information:	1SBD250160E1000
GOST Certificate:	GOST_POCCCNME77B07821.pdf
Instructions and Manuals:	1SBC101020M9701
RoHS Information:	1SBD251003E1000
UL Certificate:	UL_220108-E312527A
UL Listing Card:	NOA_E312527.pdf

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:	3471523056114
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

