

PRODUCT-DETAILS

NSL80E-81 24VDC Contactor Relay



General Information	
Extended Product Type	NSL80E-81
Product ID	1SBH103001R8180
EAN	3471523056312
Catalog Description	NSL80E-81 24VDC Contactor Relay
Long Description	NSL contactor relays are used for switching auxiliary circuits and control circuits Poles: 8-pole contactor relays - 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 suitable for a direct control by PLC outputs.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

l	Popular	Downloads

Data Sheet, Technical

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1SBC100214C0202

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Information	
Instructions and	1SBC101020M9701
Manuals	
CAD Dimensional	2CDC001079B0201
Drawing	

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	100.2 mm
Product Net Height	68 mm
Product Net Weight	0.32 kg

Technical	
Number of Auxiliary Contacts NO	٤
Number of Auxiliary Contacts NC	C
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, Θ = 40 °C 10 A
Rated Operational Current AC-15 (I _e)	(500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Operational Current DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.57 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W
Rated Short-time Withstand Current Low Voltage (I _{cw})	for 0.1 s 140 A for 1 s 100 A
Rated Insulation Voltage (Ui)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	Auxiliary Circuit 6 kV
, Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
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

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Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1.5 mm² Rigid 1/2x 0.75 2.5 mm²
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
Tightening Torque	Auxiliary Circuit 1 N·m Control Circuit 1 N·m
Terminal Type	Screw Terminals
Product Name	Block Contactor Relay
Technical UL/CSA	
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb
Environmental	
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 Resistance to Shock acc. to IEC 60068-2-27

Without Derating 3000 m 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 3g Closed Position & 2g Open Position 5 ... 300 Hz

Resistance to Vibrations

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations		
CB Certificate		CB_CN_32453
CCC Certificate		CCC_2007010305248106
CQC Certificate		CQC2007010305248106
Declaration of Conformity - CCC		2020980304001219
Declaration of		1SBD250016U1000
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Conformity - CE	
Declaration of	1SBD250051U1000
Conformity - UKCA	
GOST Certificate	GOST_POCCCNME77B07821.pdf
UL Certificate	UL_220108-E312527A
UL Listing Card	NOA_E312527.pdf

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	72 mm
Package Level 1 Depth / Length	115 mm
Package Level 1 Height	48 mm
Package Level 1 Gross Weight	0.32 kg
Package Level 1 EAN	3471523056312
Package Level 2 Units	32 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	315 mm
Package Level 2 Height	195 mm
Package Level 2 Gross Weight	10.24 kg
Package Level 3 Units	768 piece

External Classifications and Standards	
Object Classification Code	К
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching

Accessories				
Identifier 1SBN050020R1000	Description RT5/32 Surge Suppressor	Type Quantity		Unit Of Measure
		RT5/32	1	piece
1SBN050010R1000	RV5/50 Surge Suppressor	RV5/50	1	piece

Categories

 $\mathsf{Low}\ \mathsf{Voltage}\ \mathsf{Products}\ \mathsf{and}\ \mathsf{Systems}\ \to\ \mathsf{Control}\ \mathsf{Products}\ \to\ \mathsf{Contactors}\ \to\ \mathsf{NSC}\ \mathsf{Contactor}\ \mathsf{Relays}\ \to\ \mathsf{NSL}\ \mathsf{$

