

PRODUCT-DETAILS

NX31E-81

NX31E-81 24V 50/60Hz Contactor relay

General Information

Extended Product Type	NX31E-81
Product ID	1SBH901074R8131
EAN	3471522389817
Catalog Description	NX31E-81 24V 50/60Hz Contactor relay
Long Description	NX...contactor relays are used for switching auxiliary circuits and control circuits. These contactor relays are of the block type design with: – 4 poles. Contactor relays have mechanically linked auxiliary contact elements – control circuit: AC operated – add-on auxiliary contact blocks for front or side mounting and a wide range of accessories.

Classifications

Object Classification Code	K
ETIM 6	EC000196 - Contactor relay
ETIM 7	EC000196 - Contactor relay
UNSPSC	39121500
IDEA Granular Category Code (IGCC)	4755 >> Contactors

Container Information

Package Level 1 Units	1 piece
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Package Level 1 Width	48 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Height	79 mm
Package Level 1 Gross Weight	0.315 kg
Package Level 1 EAN	3471522389817
Package Level 2 Units	30 piece
Package Level 2 Width	240 mm
Package Level 2 Depth / Length	295 mm
Package Level 2 Height	145 mm
Package Level 2 Gross Weight	9.45 kg

Certificates and Declarations (Document Number)

CB Certificate	9AKK107492A7071
CCC Certificate	9AKK107492A7095
CCS Certificate	9AKK107492A7097
Declaration of Conformity - CE	1SBD250012U1000
Instructions and Manuals	No
RoHS Information	1SBD251301E1000

Technical UL/CSA

Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb
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Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C Close to Contactor without Thermal O/L Relay -40 ... +70 °C Near Contactor for Operation in Free Air -40 ... +70 °C
Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	3000 m
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical

Number of Auxiliary Contacts NO	3
Number of Auxiliary Contacts NC	1
Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air	acc. to IEC 60947-5-1, q = 40 °C 16 A

Thermal Current (I_{th})

Rated Operational Current AC-15 (I_{θ})	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 2 A (500 V) 2 A (690 V) 2 A (380 / 440 V) 3 A
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Rated Short-time Withstand Current (I_{cw})	for 0.1 s 140 A for 1 s 100 A
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Maximum Electrical Switching Frequency	AC-15 1200 cycles per hour DC-13 900 cycles per hour
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Rated Operational Current DC-13 (I_{θ})	(110 V) 0.55 A / 60 W (220 V) 0.30 A / 66 W (400 V) 2.8 A / 134 W (500 V) 1 A / 72 W (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.30 A / 75 W
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Rated Insulation Voltage (U_i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
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Rated Impulse Withstand Voltage (U_{imp})	6 kV
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Maximum Mechanical Switching Frequency	6000 cycles per hour
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Rated Control Circuit Voltage (U_c)	50 Hz 24 V 60 Hz 24 V
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Operate Time	Between Coil De-energization and NC Contact Closing 9 ... 16 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NC Contact Opening 7 ... 21 ms Between Coil Energization and NO Contact Closing 10 ... 26 ms
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Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
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Terminal Type	Screw Terminals
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Dimensions

Product Net Width	44 mm
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Product Net Depth / Length	74 mm
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Product Net Height	74 mm
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Product Net Weight	0.315 kg
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Popular Downloads

Data Sheet, Technical Information	No
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Instructions and Manuals	No
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Ordering

Minimum Order Quantity	1 piece
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Customs Tariff Number	85364900
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Categories

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