



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.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical	1SBC100187L0203

Information	
Instructions and Manuals	No
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

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

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 Thermal Current (I _{th})	acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 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 (380 / 400 V) 3 A (400 / 440 V) 2 A
Rated Short-time Withstand Current Low Voltage (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)	(24 V) 6 A / 144 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.30 A / 66 W (250 V) 0.30 A / 75 W (400 V) 2.8 A / 134 W (500 V) 1 A / 72 W
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U _{imp})	Auxiliary Circuit 6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 24 V 60 Hz 24 V
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
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type	Screw Terminals

Technical UL/CSA

Tightening Torque
UL/CSA

Auxiliary Circuit 9 in-lb
Control Circuit 9 in-lb

Environmental

Ambient Air
Temperature

Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C
Close to Contactor without Thermal O/L Relay -40 ... 70 °C
Close to Contactor for Storage -60 ... +80 °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

Without Derating 3000 m

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

9AKK107492A7071

CCC Certificate

9AKK107492A7095

CCS Certificate

GZ23PTB00147

CQC Certificate

CQC2013010304653298

Declaration of
Conformity - CCC

2020980304001057

Declaration of
Conformity - CE

1SBD250012U1000

Container Information

Package Level 1 Units

box 1 piece

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

Classifications

Object Classification Code	K
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
ETIM 9	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121500
IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Finland)	3707383

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → NX Contactor Relays

