



PRODUCT-DETAILS

NX31E-86

NX31E-86 400-415V50Hz/415V-440V60Hz  
Contactor relay



General Information	
Extended Product Type	NX31E-86
Product ID	1SBH901074R8631
EAN	3471522389862
Catalog Description	NX31E-86 400-415V50Hz/415V-440V60Hz 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 <sub>th</sub> )	acc. to IEC 60947-5-1, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(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 <sub>cw</sub> )	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 <sub>e</sub> )	(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 <sub>i</sub> )	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Auxiliary Circuit 6 kV
Maximum Mechanical Switching Frequency	6000 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 400 ... 415 V 60 Hz 415 ... 440 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

3471522389862

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

Categories

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

