

## PRODUCT-DETAILS

# NS31ES-26

## NS31ES-26 230V50/60HZ Contactor Relay



### General Information

Extended Product Type	NS31ES-26
Product ID	1SBH101004R2631
EAN	3471523009264
Catalog Description	NS31ES-26 230V50/60HZ Contactor Relay
Long Description	NS... contactor relays are used for switching auxiliary circuits and control circuits. The NS..S contactor relays are the spring terminal version of the NS... range. - 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: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

### Ordering

Minimum Order Quantity	40 piece
Customs Tariff Number	85364900

### Popular Downloads

Instructions and Manuals	1SBC101020M9701
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	45 mm
Product Net Depth / Length	72.5 mm
Product Net Height	68 mm
Product Net Weight	0.22 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 ( $I_{th}$ )	acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 10 A
Rated Operational Current AC-15 ( $I_{\theta}$ )	(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 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 ( $I_{\theta}$ )	(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) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W
Rated Insulation Voltage ( $U_i$ )	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 Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 230 V 60 Hz 230 V
Operate Time	Between Coil De-energization and NC Contact Closing 7 ... 22 ms Between Coil De-energization and NO Contact Opening 5 ... 19 ms Between Coil Energization and NC Contact Opening 6 ... 18 ms Between Coil Energization and NO Contact Closing 9 ... 24 ms
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup>

Control Circuit	Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm² Rigid 1/2x 0.75 ... 2.5 mm²
Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 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	Spring Terminals

## Environmental

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	Without Derating 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 60068-2-27	Closed, Shock Direction: C1 19 g Closed, Shock Direction: C2 16 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 13 g Shock Direction: A 20 g Shock Direction: B1 5 g Shock Direction: B2 15 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Certificates and Declarations

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

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	78 mm
Package Level 1 Depth / Length	80 mm
Package Level 1 Height	48 mm
Package Level 1 Gross Weight	0.22 kg
Package Level 1 EAN	3471523009264
Package Level 2 Units	40 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	8.8 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
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC000196 - Contactor relay
eClass	V11.0 : 27371001
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4761 >> Magnet contactor, AC-switching

Categories

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

