

General Information

Extended Product Type:	N31E 72V 50Hz / 84V 60Hz
Product ID:	1SBH141001R2331
EAN:	3471522011237
Catalog Description:	N31E 72V 50Hz / 84V 60Hz Contactor Relay
Long Description:	N... contactor relays are used for switching auxiliary circuits and control circuits - Poles: 4-pole contactor relays (mechanically linked contact elements available) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

Categories

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

Ordering

EAN:	3471522011237
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	44 mm
Product Net Depth:	74 mm
Product Net Height:	74 mm
Product Net Weight:	0.340 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	78 mm
Package Level 1 Length:	79 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.34 kg
Package Level 1 EAN:	3471522011237
Package Level 2 Units:	63 piece

Technical

Number of Auxiliary Contacts NO:	3
Number of Auxiliary Contacts NC:	1
Standards:	Devices complying with international standards IEC 947-5-1 / 947-4-1 and European standards EN 60 947-5-1 / 60 947-4-1. Electromagnetic compatibility (EMC) according to amendment A11 to IEC 947-1; EN 60 947-1 and amendment 2 to IEC 947-4-1
Rated Operational Voltage:	Main Circuit 690 V
Rated Frequency (f):	Supply Circuit 50 Hz Supply Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 16 A
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Short-Circuit Protective Devices:	gG Type Fuses 10 A
Rated Short-time Withstand Current (I_{cw}):	for 0.1 s 140 A for 1 s 100 A
Rated Operational Current DC-13 (I_e):	(125 V) 0.55 / 69 A (24 V) 6 / 144 A (250 V) 0.3 / 75 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A
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}):	8 kV
Mechanical Durability:	> 20 million
Maximum Mechanical Switching Frequency:	6000 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-5-1) 0.85 ... 1.1 x U_c (at $\theta \leq 55\text{ °C}$) °C
Rated Control Circuit Voltage (U_c):	50 Hz 72 V 60 Hz 84 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 70 V·A

Pull-in at Max. Rated Control Circuit Voltage 60 Hz 80 V·A
 Holding at Max. Rated Control Circuit Voltage 60 Hz 8 V·A
 Holding at Max. Rated Control Circuit Voltage 60 Hz 2 W
 Holding at Max. Rated Control Circuit Voltage 50 Hz 8 V·A
 Holding at Max. Rated Control Circuit Voltage 50 Hz 2 W
 Average Holding Value 50 Hz 8 V·A
 Average Holding Value 50 Hz 2 W
 Average Holding Value 60 Hz 8 V·A
 Average Holding Value 60 Hz 2 W
 Average Pull-in Value 50 Hz 70 V·A
 Average Pull-in Value 60 Hz 80 V·A

Operate Time:	Between Coil Energization and NO Contact Closing 10 ... 26 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil De-energization and NC Contact Closing 9 ... 16 ms Between Coil Energization and NC Contact Opening 7 ... 21 ms
Connecting Capacity-Auxiliary Circuit:	Rigid Cable 1 ... 4 mm ² Flexible with Cable End 0.75 ... 2.5 mm ²
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Terminal Type:	Screw Terminals

Environmental

Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 - 1.1 U _c) -40 ... +55 °C Near Contactor for Operation in Free Air (U _c) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °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
Resistance to Shock acc. to IEC 60068-2-27:	Shock Direction: A 20 g Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Certificates and Declarations (Document Number)

BV Certificate:	BV_2634H09651C0
CB Certificate:	CB_FR_602227B
CCC Certificate:	CCC_2003010304088235
CSA Certificate:	CSA_1041746
cUL Certificate:	UL_071301E48139
Declaration of Conformity - CE:	1SBD250805C3000
DNV Certificate:	DNV_E12026
GL Certificate:	GL_1214298HH
GOST Certificate:	GOST_PECCDEME01B01244
LR Certificate:	LRS_9830010E2
RINA Certificate:	RINA_ELE128713XG002
RoHS Information:	1SBD350052R1000
UL Certificate:	UL_071301E48139

Classifications

ETIM 5.0:	EC000196 - Contactor relay
UNSPSC:	39121500

