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PRODUCT-DETAILS

## **TNL31E 17-32V DC**TNL31E 17-32V DC Contactor Relay



General Information	
Extended Product Type	TNL31E 17-32V DC
Product ID	1SBH143061R5131
EAN	3471522328519
Catalog Description	TNL31E 17-32V DC Contactor Relay
Long Description	The TNL31E 17-32V DC is a contactor relay used for switching auxiliary circuits and control circuits - Poles: 4-pole contactor relays (mechanically linked contact elements available) - Control circuit: DC operated with solid core magnet circuit. The polarity on the coil terminals (A1+ and A2-) must be respected - Accessories: a wide range of accessories is available TNL contactor relays are fitted with low consumption DC coils and offer a large coil voltage range.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## **Popular Downloads**

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Data Sheet, Technical Information	1SBC100122C0202_CH02	
Instructions and Manuals	1SBC101003M5501	
CAD Dimensional Drawing	2CDC001079B0201	
Dimension Diagram	FPTE307872	
Dimensions		
Product Net Width	44 mm	
Product Net Depth / Length	97 mm	
Product Net Height	78 mm	
Product Net Weight	0.52 kg	
Technical		
Number of Auxiliary Contacts NO	3	
Number of Auxiliary Contacts NC		
Number of Poles	4P	
Rated Operational Voltage	Auxiliary Circuit 690 V	
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz	
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-5-1, ⊖ = 40 °C 16 A	
Rated Operational	(500 V) 2 A (690 V) 2 A	
Current AC-15 (I <sub>e</sub> )	(890 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A	
Rated Operational	(24 V) 6 A / 144 W	
Current DC-13 (I <sub>e</sub> )	(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) 0.30 A / 66 W (250 V) 0.3 / 75 W	
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A	
Rated Short-time	for 0.1 s 140 A	
Withstand Current Low Voltage (I <sub>cw</sub> )	for 1 s 100 A	
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V	
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV	
Maximum Electrical Switching Frequency	1200 cycles per hour	
Maximum Mechanical Switching Frequency	6000 cycles per hour	
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 17 32 V	
Coil Consumption	Holding DC (Umin / Umax) 2.5 / 8.5 W Pull-in DC (Umin / Umax) 2.5 / 8.5 W	
Power Loss	at Rated Operating Conditions per Pole 0.1 W	
Operate Time	Between Coil De-energization and NC Contact Closing 16 27 ms	
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	Between Coil De-energization and NO Contact Opening 10 17 ms Between Coil Energization and NC Contact Opening 20 70 ms Between Coil Energization and NO Contact Closing 50 100 ms
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
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	Screw Terminals
Product Name	Block Contactor Relay

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C Near Contactor for Operation in Free Air (Ucmin-Ucmax) according to IEC 60077 -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
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: A 20 g Closed, Shock Direction: B1 15 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 14 g Open, Shock Direction: A 10 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 8 g Open, Shock Direction: C2 8 g Shock Direction: B2 10 g
Pollution Degree	3

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
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
CB Certificate	CB_SE_66912A1
CCC Certificate	CCC_2012010304558126 CCC_2006010304170816
CQC Certificate	CQC2012010304558126
CSA Certificate	CSA_1041746
Declaration of Conformity - CCC	2020980303000256
Declaration of Conformity - CE	1SBD250808U1000
Declaration of Conformity - UKCA	1SBD250825U1000

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EAC Certificate	EAC_RU C-FR ME77 B01006
GOST Certificate	GOST POCCFRME77B07174

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	86 mm
Package Level 1 Depth / Length	141 mm
Package Level 1 Height	51 mm
Package Level 1 Gross Weight	0.52 kg
Package Level 1 EAN	3471522328519
Package Level 2 Units	box 28 piece
Package Level 2 Width	300 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	308 mm
Package Level 2 Gross Weight	14.56 kg
Package Level 3 Units	336 piece

External Classifications and Standards	
Object Classification Code	К
ETIM 7	EC000196 - Contactor relay
ETIM 8	EC002552 - Power contactor, DC switching
ETIM 9	EC002552 - Power contactor, DC switching
eClass	V11.0 : 27371018
UNSPSC	39121500

## Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ N\ Contactor\ Relays\ \rightarrow\ TNL31E$ 

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