

PRODUCT-DETAILS

## TAL16-30-01 90-150V DC

## TAL16-30-01 90-150V DC Contactor



General Information	
Extended Product Type	TAL16-30-01 90-150V DC
Product ID	1SBL183061R6601
EAN	3471522316660
Catalog Description	TAL16-30-01 90-150V DC Contactor
Long Description	TAL16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The TAL series 1-stack 3-pole contactors are of the block type design Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front and side-mounted addon auxiliary contact blocks - 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. TAL contactors 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	
Data Sheet, Technical Information	1SNC001003C0202
Instructions and Manuals	1SBC101003M5501
Dimension Diagram	FPTE307872

Rated Impulse

8 kV

Dimensions	
Product Net Width	44 mn
Product Net Depth / Length	97 mn
Product Net Height	78 mn
Product Net Weight	0.52 kg
Technical	
Number of Main Contacts NO	
Number of Main Contacts NC	(
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Rated Operational Voltage	Auxiliary Circuit 690 \ Main Circuit 690 \
Rated Frequency (f)	Supply Circuit 50 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 30 A acc. to IEC 60947-5-1, q = 40 °C 16 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(690 V) 40 °C 30 (690 V) 55 °C 27 (690 V) 70 °C 23
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 17 A (440 V) 55 °C 16 A (500 V) 55 °C 14 A (690 V) 55 °C 10 A (380 / 400 V) 55 °C 17 A (220 / 230 / 240 V) 55 °C 17
Rated Operational Power AC-3 (P <sub>e</sub> )	(415 V) 9 kw (440 V) 9 kw (500 V) 9 kw (690 V) 9 kw (380 / 400 V) 7.5 kw (220 / 230 / 240 V) 4 kw
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	10 x le AC-3
Rated Operational Current AC-15 (I <sub>e</sub> )	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A
Short-Circuit Protective Devices	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 32 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 100 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hou (AC-2 / AC-4) 300 cycles per hou (AC-3) 1200 cycles per hou
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 2 / 144 A (125 V) 1.1 / 138 A (250 V) 0.55 / 138 A
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 \ acc. to UL/CSA 600 \
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Withstand	Voltage	(U <sub>imp</sub>

Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	DC Operation 90 150 V
Coil Consumption	Holding DC (Umin / Umax) 2.5 / 8.5 W Pull-in DC (Umin / Umax) 2.5 / 8.5 W
Operate Time	Between Coil De-energization and NC Contact Closing 16 27 ms 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
Connecting Capacity Main Circuit	Flexible with Cable End 0.75 2.5 mm² Rigid Cable 1 4 mm²
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 Coil Terminals IP20
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screw with cable clamp
Terminal Type	Screw Terminals

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 +55 °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	Closed, Shock Direction: A 20 K40 Closed, Shock Direction: B1 15 K40 Closed, Shock Direction: C1 20 K40 Closed, Shock Direction: C2 14 K40 Open, Shock Direction: A 10 K40 Open, Shock Direction: B1 5 K40 Open, Shock Direction: C1 8 K40 Open, Shock Direction: C2 8 K40 Shock Direction: B2 10 K40
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
CB Certificate	CB_FR_617239B
CCC Certificate	CCC_2012010304534830
CQC Certificate	CQC2012010304534830
CSA Certificate	CSA_1041746
Declaration of Conformity - CCC	2020980304001613
Declaration of Conformity - CE	1SBD250804U1000
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental Information	1SBD250121E1004
GOST Certificate	GOST_POCCFRME77B07175
Instructions and Manuals	1SBC101003M5501
RoHS Information	1SBD250804U1000
UL Certificate	UL_20160205-E312527-10-2
UL Listing Card	UL_E312527

Container Information	
Package Level 1 Units	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	3471522316660
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

Classifications	
Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371018
UNSPSC	39121529

## Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$ 

