

PRODUCT-DETAILS

TAE50-40-00 90-150V DCTAE50-40-00 90-150V DC Contactor



General Information	
Extended Product Type	TAE50-40-00 90-150V DC
Product ID	1SBL359261R6600
EAN	3471522115676
Catalog Description	TAE50-40-00 90-150V DC Contactor
Long Description	TAE50 4-pole contactors are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting The TAE series 4-pole contactors are of the block type design Main poles and auxiliary contact blocks: 4 N.O. main poles, front and sidemounted add-on auxiliary contact blocks - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the "holding" winding). TAE contactors offer a large coil voltage range - Accessories: a wide range of accessories is available.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Donulas Doumlanda	
Popular Downloads	
Popular Downloads Data Sheet, Technical Information	1SNC001003C0202

Dimensions	
Product Net Width	104 mm
Product Net Depth / Length	119.5 mm
Product Net Height	110 mm
Product Net Weight	1.43 kg
 Technical	
Number of Main Contacts NO	4
Number of Main Contacts NC	С
Number of Auxiliary Contacts NO	C
Number of Auxiliary Contacts NC	0
Rated Operational Voltage	Main Circuit 1000 V
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 100 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 100 (690 V) 55 °C 85
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 50 A (440 V) 55 °C 45 A (500 V) 55 °C 45 A (690 V) 55 °C 35 A
	(1000 V) 55 °C 23 A (380 / 400 V) 55 °C 50 A (220 / 230 / 240 V) 55 °C 53
Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 630 A
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U _{imp})	8 kv
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _C)	DC Operation 90 150 V
Coil Consumption	Holding DC (Umin / Umax) 1.7 / 6.5 W Pull-in at Max. Rated Control Circuit Voltage DC 450 W Pull-in DC (Umin / Umax) 120 / 250 W
Operate Time	Between Coil De-energization and NO Contact Opening 5 15 ms Between Coil Energization and NO Contact Closing 30 30 ms
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm² Rigid Cable 6 25 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 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector

Terminal Type Screw Terminals

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +55 °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: B1 10 K40 Open, Shock Direction: B1 5 K40 Shock Direction: A 20 K40 Shock Direction: B2 15 K40 Shock Direction: C1 20 K40 Shock Direction: C2 20 K40
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)	
Declaration of	1SBD250804U1000
Conformity - CE	
EAC Certificate	EAC_RU C-FR ME77 B01010
Environmental	1SBD250024E1003
Information	
GOST Certificate	GOST_POCCFRME77B07175
Instructions and	FPTC407701P0003
Manuals	
RoHS Information	1SBD250804U1000
UL Certificate	UL_20120830-E312527-10-1
UL Listing Card	UL_E312527

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	142 mm
Package Level 1 Depth / Length	190 mm
Package Level 1 Height	136 mm
Package Level 1 Gross Weight	1.43 kg
Package Level 1 EAN	3471522115676
Package Level 2 Units	box 8 piece
Package Level 2 Gross Weight	11.44 kg

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

TAE50-40-00 90-150V DC

4

Categories

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

