TAE50-40-00 90-150V DC 1/4



PRODUCT-DETAILS

TAE50-40-00 90-150V DC TAE50-40-00 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 side-mounted 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

Popular Downloads

Data Sheet, Technical

1SNC001003C0202

Data Sheet, Technical Information	1SNC001003C0202
nstructions and Manuals	FPTC407701P0003
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	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Number of Poles	4P
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 100 A
lated Operational Current C-1 (I _e)	(690 V) 40 °C 100 A (690 V) 55 °C 85 A (690 V) 70 °C 70 A
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 Operational Power NC-3 (P _e)	(415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW (1000 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
Rated Breaking Capacity NC-3	8 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 100 A
Rated Short-time Vithstand Current Low /oltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A
flaximum 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
Rated Insulation Voltage U_{i})	acc. to IEC 60947-4-1 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	8 kV
Maximum Electrical witching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability Maximum Mechanical	5 million 3600 cycles per hour
Switching Frequency	DC Operation 00 150 V
Rated Control Circuit	DC Operation 90 150 V
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TAE50-40-00 90-150V DC 3/4

Voltage (U _c)	
Coil Consumption	Holding DC (Umin / Umax) 1.7 / 6.5 V Pull-in at Max. Rated Control Circuit Voltage DC 450 V Pull-in DC (Umin / Umax) 120 / 250 V
Power Loss	at Rated Operating Conditions per Pole 1.3 V at Rated Operating Conditions AC-1 per Pole 5 V at Rated Operating Conditions AC-3 per Pole 1.3 V
Operate Time	Between Coil De-energization and NO Contact Opening 5 15 m Between Coil Energization and NO Contact Closing 30 30 m
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071: TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 6071:
Mounting by Screws (not supplied)	2 x M6 screws placed diagonall
Connecting Capacity Main Circuit	Flexible with Cable End 6 16 mm Rigid Cable 6 25 mm
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 0.75 2.5 mm Rigid Cable 1 4 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP2(acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Connecting Terminals (delivered in open position) Main Poles	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connecto
Terminal Type	Screw Terminal
Product Name	Block Contacto
Technical UL/CSA General Use Rating UL/CSA	(600 V AC) 80 A
General Use Rating	(600 V AC) 80 A
General Use Rating UL/CSA	(600 V AC) 80 A
General Use Rating UL/CSA Environmental	
General Use Rating UL/CSA	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C
General Use Rating UL/CSA Environmental Ambient Air Temperature	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification in
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification in
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 5
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc.	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 Shock Direction: A 20 Shock Direction: C1 20 Shock Direction:
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc.	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 Shock Direction: A 20 Shock Direction: C1 20 Shock Direction:
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General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 Shock Direction: A 20 Shock Direction: B2 15 Shock Direction: C1 20 Shock Direction: C1 20 Shock Direction: C2 20 Shock Direction: C3 Shock Direction: C4
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Material Compliance Conflict Minerals Reporting Template (CMRT)	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 Shock Direction: B2 15 Shock Direction: A 20 Shock Direction: C1 20 Shock Direction: C1 20 Shock Direction: C2 20 GNock Direction:
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Material Compliance Conflict Minerals Reporting Template	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Gopen, Shock Direction: B1 10 Gopen, Shock Direction: A 20 Ghock Direction: A 20 Ghock Direction: C1 20 Ghock Direction: C2 20 Ghock Dire
General Use Rating UL/CSA Environmental Ambient Air Temperature Climatic Withstand Maximum Operating Altitude Permissible Resistance to Shock acc. to IEC 60068-2-27 Material Compliance Conflict Minerals Reporting Template (CMRT) REACH Declaration	Close to Contactor without Thermal O/L Relay (Ucmin-Ucmax) according to IEC 60077 -40 +70 °C Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 55 °C acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification I Without Derating 3000 n Closed, Shock Direction: B1 10 Open, Shock Direction: B1 5 Shock Direction: A 20 Shock Direction: A 20 Shock Direction: C1 20 Shock Direction: C2

C:f:		Declarations

Declaration of Conformity - CE 1SBD250806U1000

WEEE Category

Declaration of Conformity 1SBD250823U1000

5. Small Equipment (No External Dimension More Than 50 cm)

- UKCA

EAC Certificate	EAC_RU C-FR ME77 B01010
GOST Certificate	GOST_POCCFRME77B07175
UL Certificate	UL-US-L312527-1101-21215991-6 UL-CA-2139468-4
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

External Classifications and Standards		
Object Classification Code	Q	
ETIM 7	EC000066 - Power contactor, AC switching	
ETIM 8	EC000066 - Power contactor, AC switching	
ETIM 9	EC000066 - Power contactor, AC switching	
eClass	V11.0 : 27371003	
UNSPSC	39121529	

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors\ \rightarrow\ TAL\ and\ TAE\ Contactors\ \rightarrow\ TAE50$

