

PRODUCT-DETAILS

TA25DU-32

TA25DU-32 Thermal Overload Relay 24 ... 32 A



General Information

Extended Product Type	TA25DU-32
Product ID	1SAZ211201R1053
EAN	4013614216640
Catalog Description	TA25DU-32 Thermal Overload Relay 24 ... 32 A
Long Description	The TA25DU-32 thermal overload relay is an economic electromechanical protection device for the main circuit. It offers reliable and fast protection for motors in the event of overload or phase failure. The device has trip class 10A. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP- and Test function and a trip indication. The overload relays are connected directly to the block contactors. Single mounting kits are available as accessory.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Instructions and Manuals	2CDC106031M6802
Instructions and	1SAC200017M0002

Manuals (Part 2)

Time-Current Characteristic Curve	1SAZ200501F0018
Dimension Diagram	1SAZ200402F0001

Dimensions

Product Net Width	44 mm
Product Net Height	94 mm
Product Net Depth / Length	94 mm
Product Net Weight	0.2 kg

Technical

Setting Range	24 ... 32 A
Rated Operational Voltage	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current (I_e)	32 A
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
Rated Impulse Withstand Voltage (U_{imp})	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U_i)	690 V
Number of Poles	3
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Conventional Free-air Thermal Current (I_{th})	Auxiliary Circuit NC 10 A Auxiliary Circuit NO 6 A
Rated Operational Current AC-15 (I_e)	(120 V) NC 3 A (120 V) NO 1.5 A (240 V) NC 3 A (240 V) NO 1.5 A (400 V) NC 1.9 A (400 V) NO 1 A (440 V) NC 1 A (440 V) NO 1 A (500 V) NC 1 A (500 V) NO 1 A
Rated Operational Current DC-13 (I_e)	(125 V) NC 0.25 A (125 V) NO 0.25 A (24 V) NC 1.25 A (24 V) NO 1.25 A (250 V) NC 0.12 A (250 V) NO 0.04 A (60 V) NC 0.25 A (60 V) NO 0.25 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP10

Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 ... 6 mm ² Flexible 1x 1.5 ... 6 mm ² Rigid 1x 1.5 ... 10 mm ²
Tightening Torque	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 2.5 ... 3.2 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 15 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2
Power Loss	at Rated Operating Conditions per Pole 1.8 ... 3.3 W
Suitable For	A9 A12 A16 A26 A30 A40 AL9 AL12 AL16 AL26 AL30 AL40
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NO:) C300
Connecting Capacity Main Circuit UL/CSA	Flexible 1x 10-8 AWG Stranded 1x 10-8 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 12 in·lb Main Circuit 20 in·lb

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
Ambient Air Temperature Compensation	Yes
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 12g 25g 2 shocks 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations