PRODUCT-DETAILS

TA25DU-5.0M

TA25DU-5.0M Thermal Overload Relays



General Information

Extended Product Type	TA25DU-5.0M
Product ID	1SAZ211201R2035
EAN	4013614482519
Catalog Description	TA25DU-5.0M Thermal Overload Relays
Long Description	TA25DU-5.0M (3.5-5.0A) 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

Dimensions

Product Net Width	44 mm
Product Net Height	80 mm
Product Net Depth / Length	94 mm
Product Net Weight	0.15 kg

Popular Downloads

Instructions and Manuals	2CDC106031M6802

Technical

Setting Range	3.50 ... 5.00 A
Rated Operational Voltage	Auxiliary Circuit 440/500 V AC/DC Main Circuit 690 V AC
Rated Operational Current (I_e)	5 A
Rated Operational Current AC-3 (I_e)	5 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 5 A Auxiliary Circuit NO 5 A
Rated Operational Current AC-15 (I_e)	(120 V) NC 3.000 A (120 V) NO 1.500 A (240 V) NC 3.000 A (240 V) NO 1.500 A (400 V) NC 1.900 A (400 V) NO 1.000 A (440 V) NC 1.000 A (440 V) NO 1.000 A (500 V) NC 1.000 A (500 V) NO 1.000 A
Rated Operational Current DC-13 (I_e)	(125 V) NC 0.250 A (125 V) NO 0.250 A (24 V) NC 1.250 A (24 V) NO 1.250 A (250 V) NC 0.120 A (250 V) NO 0.040 A (60 V) NC 0.250 A (60 V) NO 0.250 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP10
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible 1/2x 0.75 ... 2.5 mm² Rigid 1/2x 0.75 ... 4 mm²
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 0.75 ... 4 mm² Flexible with Ferrule 2x 0.75 ... 4 mm² Flexible 1x 0.75 ... 4 mm² Flexible 2x 0.75 ... 4 mm² Rigid 1x 0.75 ... 4 mm² Rigid 2x 0.75 ... 4 mm²
Tightening Torque	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 1.5 ... 1.9 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm

	Main Circuit 12 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2
Mounting Position	Position 1 to 4
Power Loss	at Rated Operating Conditions per Pole 1.1 ... 2.2 W
Suitable For	AX09 AX12 AX18 AX25 AX32 AX40
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 508

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	5 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 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 12 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
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CB Certificate	1SAA941013-2002
CCC Certificate	1SAA941010-3801
CCS Certificate	1SAA941000-0901
Declaration of Conformity - CE	1SAD938506-0186
EAC Certificate	1SAA941002-2701
Instructions and Manuals	2CDC106031M6802
RMRS Certificate	1SAA941000-0704
RoHS Information	1SAD938503-0186

Container Information

Package Level 1 Units	1 piece

Package Level 1 Width	98 mm
Package Level 1 Height	82 mm
Package Level 1 Depth / Length	47 mm
Package Level 1 Gross Weight	0.17 kg
Package Level 1 EAN	4013614482519
Package Level 2 Units	36 piece
Package Level 2 Width	230 mm
Package Level 2 Height	310 mm
Package Level 2 Depth / Length	380 mm
Package Level 2 Gross Weight	10.946 kg

Classifications

ETIM 5	EC000106 - Thermal overload relay
ETIM 6	EC000106 - Thermal overload relay
ETIM 7	EC000106 - Thermal overload relay
eClass	7.0 27371501
UNSPSC	39121521

Categories

Low Voltage Products and Systems → Control Products → Contactors → Thermal Overload Relays

