

TA75DU-42M



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

General Information

Extended Product Type:	TA75DU-42M
Product ID:	1SAZ321201R2003
EAN:	4013614482649
Catalog Description:	TA75DU-42M Thermal Overload Relays
Long Description:	TA75DU-42M (29.0-42.0A) 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.

Additional Information

Ambient Air Temperature:	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
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Ambient Air Temperature Compensation:	Yes
Ampere Rating UL/CSA:	42 A
CB Certificate:	1SAA941014-2001
CCC Certificate:	1SAA941011-3812
Co-ordination with Short-Circuit Protective Devices - Type 1:	gG Type Fuses 100 A
Co-ordination with Short-Circuit Protective Devices - Type 2:	gG Type Fuses 100 A
Connecting Capacity Auxiliary Circuit UL/CSA:	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 8-1 AWG Stranded 1/2x 8-1 AWG
Connecting Capacity Auxiliary Circuit:	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 2.5 ... 25 mm ² Flexible with Ferrule 2x 2.5 ... 10 mm ² Flexible with Ferrule 2x 2.5 ... 10 mm ² Rigid 1x 2.5 ... 25 mm ² Rigid 2x 2.5 ... 16 mm ²
Contact Rating UL/CSA:	(NC:) B600 (NO:) C600
Conventional Free-air Thermal Current (I_{th}):	Auxiliary Circuit NC 5 A Auxiliary Circuit NO 5 A
Country of Origin:	Bulgaria (BG)
Customs Tariff Number:	85364900
Declaration of Conformity - CE:	1SAD938503-0186
Degree of Protection:	Housing IP20 Main Circuit Terminals IP20
EAC Certificate:	1SAA941002-2701
EAN:	4013614482649
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / General
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
Instructions and Manuals:	2CDC106049M6802

Invoice Description:	TA75DU-42M Thermal overload relay Trip class 10A, 29.0-42.0A
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Minimum Order Quantity:	1 piece
Mounting Position:	Position 1 to 4
Mounting Type:	Mounted on Contactor
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	1
Number of Poles:	3
Number of Protected Poles:	3
Package Level 1 EAN:	4013614482649
Package Level 1 Gross Weight:	0.36 kg
Package Level 1 Height:	109 mm
Package Level 1 Length:	61 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	92 mm
Package Level 2 Gross Weight:	8.786 kg
Package Level 2 Height:	310 mm
Package Level 2 Length:	380 mm
Package Level 2 Units:	25 piece
Package Level 2 Width:	230 mm
Phase Loss Sensitive:	Yes
Pollution Degree:	3
Power Loss:	at Rated Operating Conditions per Pole 1.5 ... 3.2 W
Product Main Type:	TA75DU
Product Name:	Thermal Overload Relays
Product Net Depth:	111 mm
Product Net Height:	90 mm
Product Net Weight:	0.335 kg
Product Net Width:	54 mm
RMRS Certificate:	1SAA941000-0704
Rated Frequency (f):	Auxiliary Circuit DC/50/60 Hz Main Circuit DC/50/60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U_i):	690 V
Rated Operational Current (I_e):	42 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 AC-3 (I_e):	42 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
Rated Operational Voltage:	Auxiliary Circuit 440/500 V AC/DC Main Circuit 690 V AC
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2
Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 12g
RoHS Date:	0328
RoHS Information:	1SAD938503-0186
RoHS Status:	Following EU Directive 2011/65/EC
Selling Unit of Measure:	piece
Setting Range:	29.0 ... 42.0 A
Short Description:	TA75DU-42 Thermal Overload Relay
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 6 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 508 CSA 22.2 No. 14
Suitable For:	AX50 AX65 AX80
Suitable for Product Class:	Block contactors
Terminal Type:	Screw Terminals
Tightening Torque:	Main Circuit 1 ... 1.3 N·m Main Circuit Auxiliary Circuit 4.5 N·m
Tightening Torque UL/CSA:	Auxiliary Circuit 12 in·lb Main Circuit 40 in·lb
Trip Class:	10A
UNSPSC:	39121521
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 14 mm
eClass:	7.0 27371501
CCS Certificate:	1SAA941000-0901

