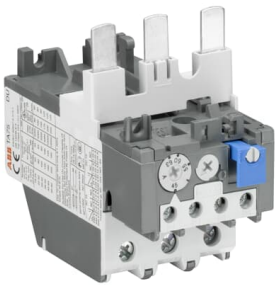




 PRODUCT-DETAILS

TA75DU-42

TA75DU-42 Thermal Overload Relay 29 ... 42 A



General Information

| | |
|-----------------------|--|
| Extended Product Type | TA75DU-42 |
| Product ID | 1SAZ321201R1003 |
| EAN | 4013614216718 |
| Catalog Description | TA75DU-42 Thermal Overload Relay 29 ... 42 A |

| | |
|------------------|---|
| Long Description | <p>The TA75DU-42 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.</p> |
|------------------|---|

Ordering

| | |
|------------------------|----------|
| Minimum Order Quantity | 1 piece |
| Customs Tariff Number | 85364900 |

Popular Downloads

| | |
|-----------------------------------|-----------------|
| Instructions and Manuals | 2CDC106049M6802 |
| Time-Current Characteristic Curve | 1SAZ300501F0003 |
| Dimension Diagram | 1SAZ300402F0001 |

Dimensions

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|----------------------------|----------|
| Product Net Width | 58 mm |
| Product Net Height | 92 mm |
| Product Net Depth / Length | 111 mm |
| Product Net Weight | 0.335 kg |

Technical

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|--|---|
| Setting Range | 29 ... 42 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) | 42 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 | 3P |
| 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 1.2 A (400 V) NC 0.75 A (400 V) NO 0.37 A (440 V) NC 0.75 A (440 V) NO 0.37 A (500 V) NC 0.3 A (500 V) NO 0.25 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 2.5 ... 25 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 |
| Tightening Torque | Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 4.5 N·m |
| Wire Stripping Length | Auxiliary Circuit 9 mm Main Circuit 14 mm |
| Recommended Screw Driver | Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2 |
| Power Loss | at Rated Operating Conditions per Pole 1.5 ... 3.2 W |
| Suitable For | A50 A63 A75 AE50 AE63 AE75 |
| 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 1/2x 8-1 AWG Stranded 1/2x 8-1 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 40 in·lb |

Environmental

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|---|--|
| 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 |
| Toxic Substances Control Act - TSCA | 2CMT2023-006525 |

Material Compliance

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|-------------------|-----------------|
| Conflict Minerals | 9AKK108467A5658 |
|-------------------|-----------------|

Reporting Template
(CMRT)

| | |
|-------------------|--|
| REACH Declaration | 2CMT2021-006202 |
| RoHS Information | 2CMT2021-006277 |
| WEEE B2C / B2B | Business To Business |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Certificates and Declarations

| | |
|----------------------------------|---------------------|
| ABS Certificate | 1SAA941000-0102 |
| BV Certificate | 1SAA941000-0201 |
| CB Certificate | 1SAA941017-2001 |
| CCC Certificate | 2024010304659817 |
| CQC Certificate | CQC2016010309922938 |
| Declaration of Conformity - CCC | 2020980304001323 |
| Declaration of Conformity - CE | 1SAD101100-3509 |
| Declaration of Conformity - UKCA | 1SAD201100-3509 |
| DNV Certificate | 1SAA941000-0304 |
| DNV GL Certificate | 1SAA941000-0304 |
| EAC Certificate | 1SAA941002-2702 |
| GL Certificate | 1SAA941000-0304 |
| LR Certificate | 1SAA941000-0504 |
| RMRS Certificate | 1SAA941000-0704 |
| UL Certificate | E48139-19970506 |

Container Information

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|--------------------------------|----------------|
| Package Level 1 Units | carton 1 piece |
| Package Level 1 Width | 92 mm |
| Package Level 1 Height | 109 mm |
| Package Level 1 Depth / Length | 61 mm |
| Package Level 1 Gross Weight | 0.36 kg |
| Package Level 1 EAN | 4013614216718 |
| Package Level 2 Units | 24 piece |
| Package Level 2 Width | 280 mm |
| Package Level 2 Height | 210 mm |
| Package Level 2 Depth / Length | 395 mm |
| Package Level 2 Gross Weight | 8.786 kg |
| Package Level 2 EAN | 4013614493843 |

External Classifications and Standards

| | |
|----------------------------|-----------------------------------|
| Object Classification Code | F |
| ETIM 9 | EC000106 - Thermal overload relay |
| ETIM 10 | EC000106 - Thermal overload relay |
| eClass | V11.0 : 27371501 |
| UNSPSC | 39122330 |

IDEA Granular Category
Code (IGCC)
E-Number (Finland)

5366 >> Thermal overload relay

3709386

Categories

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

