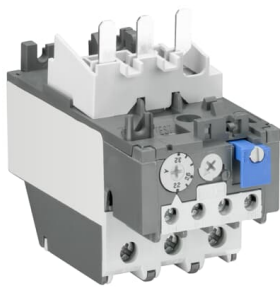




PRODUCT-DETAILS

TA42DU-32M

TA42DU-32M Thermal Overload Relay



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | TA42DU-32M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product ID            | 1SAZ311201R2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EAN                   | 4013614482601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Catalog Description   | TA42DU-32M Thermal Overload Relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Long Description      | TA42DU-32M (22.0-32.0A) 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 |

Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Instructions and Manuals          | 2CDC106049M6802 |
| Time-Current Characteristic Curve | 1SAZ300501F0002 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 54 mm    |
| Product Net Height         | 90 mm    |
| Product Net Depth / Length | 111 mm   |
| Product Net Weight         | 0.335 kg |

Technical

|                                                          |                                                                                                                                                                                                       |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Voltage                                | Main Circuit 690 V AC<br>Main Circuit 440 V DC                                                                                                                                                        |
| Rated Operational Current (I <sub>e</sub> )              | 32 A                                                                                                                                                                                                  |
| 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 <sub>th</sub> ) | Auxiliary Circuit NC 5 A<br>Auxiliary Circuit NO 5 A                                                                                                                                                  |
| Rated Operational Current AC-15 (I <sub>e</sub> )        | (120 V) NC 3 A<br>(120 V) NO 1.5 A<br>(240 V) NC 3 A<br>(240 V) NO 1.2 A<br>(400 V) NC 0.75 A<br>(400 V) NO 0.37 A<br>(440 V) NC 0.75 A<br>(440 V) NO 0.37 A<br>(500 V) NC 0.3 A<br>(500 V) NO 0.25 A |
| Degree of Protection                                     | Housing IP20<br>Main Circuit Terminals IP20                                                                                                                                                           |
| Connecting Capacity Auxiliary Circuit                    | Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>                                                                                                                   |
| Wire Stripping Length                                    | Auxiliary Circuit 9 mm<br>Main Circuit 14 mm                                                                                                                                                          |
| Recommended Screw Driver                                 | Auxiliary Circuit Pozidriv 1<br>Main Circuit Pozidriv 2                                                                                                                                               |
| Power Loss                                               | at Rated Operating Conditions per Pole 1.4 ... 3.0 W                                                                                                                                                  |
| Suitable For                                             | AX32<br>AX40                                                                                                                                                                                          |
| Standards                                                | CSA 22.2 No. 14<br>IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 508                                                                                                                   |

Technical UL/CSA

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| Maximum Operating Voltage UL/CSA        | Main Circuit 600 V AC                               |
| Contact Rating UL/CSA                   | (NC:) B600<br>(NO:) C600                            |
| Connecting Capacity Main Circuit UL/CSA | Flexible 1/2x 8-1 AWG<br>Stranded 1/2x 8-1 AWG      |
| Tightening Torque UL/CSA                | Auxiliary Circuit 12 in-lb<br>Main Circuit 40 in-lb |

## Environmental

|                                            |                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +55 °C<br>Operation Compensated -25 ... +55 °C<br>Storage -40 ... +70 °C |
| Resistance to Shock acc. to IEC 60068-2-27 | 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

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                            |
| 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

|                                 |                     |
|---------------------------------|---------------------|
| CB Certificate                  | 1SAA941019-2001     |
| CCS Certificate                 | 1SAA941000-0901     |
| CQC Certificate                 | CQC2016010309922937 |
| Declaration of Conformity - CCC | 2020980304001322    |
| Declaration of Conformity - CE  | 1SAD101100-3501     |
| EAC Certificate                 | 1SAA941002-2701     |
| RMRS Certificate                | 1SAA941000-0704     |
| UL Certificate                  | E48139-19970506     |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 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            | 4013614482601 |
| Package Level 2 Units          | 25 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   | 8.786 kg |

**Classifications**

|                                    |                                   |
|------------------------------------|-----------------------------------|
| ETIM 5                             | EC000106 - Thermal overload relay |
| ETIM 6                             | EC000106 - Thermal overload relay |
| ETIM 7                             | EC000106 - Thermal overload relay |
| ETIM 8                             | EC000106 - Thermal overload relay |
| eClass                             | V11.0 : 27371501                  |
| UNSPSC                             | 39121520                          |
| IDEA Granular Category Code (IGCC) | 5364 >> Overload relay            |
| E-Number (Finland)                 | 3707418                           |

**Categories**

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

