

## Alternate Catalog No. TA25DU11 Catalog No. 1SAZ211201R1043

**Description:** TA25DU-11 Thermal Overload Relay

**UPC No** 4013614216602

**Home > Contactors & Starters > Overload Relays**

The TA25DU-11 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.

Representative Image

### Descriptors

|          |                 |
|----------|-----------------|
| Category | Overload Relays |
|----------|-----------------|

### Specifications

|                                       |                                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                          | Thermal Overload Relay                                                                                                                                                                            |
| Rated Operational Voltage             | Auxiliary Circuit 440/500 V DC/V AC<br>Main Circuit 690 V AC                                                                                                                                      |
| Rated Operational Current             | 11 A                                                                                                                                                                                              |
| Setting Range                         | 7.5 ... 11 A                                                                                                                                                                                      |
| Rated Impulse Withstand Voltage       | Auxiliary Circuit 6 kV<br>Main Circuit 6 kV                                                                                                                                                       |
| Rated Insulation Voltage              | 690 V                                                                                                                                                                                             |
| Number of Poles                       | 3                                                                                                                                                                                                 |
| Number of Auxiliary Contacts NC       | 1                                                                                                                                                                                                 |
| Number of Auxiliary Contacts NO       | 1                                                                                                                                                                                                 |
| Number of Protected Poles             | 3                                                                                                                                                                                                 |
| Trip Class                            | class 10A                                                                                                                                                                                         |
| Conventional Free-air Thermal Current | Auxiliary Circuit NC 10 A<br>Auxiliary Circuit NO 6 A<br>Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz<br>Auxiliary Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50Hz<br>Main Circuit DC |
| Rated Frequency                       | 11 A                                                                                                                                                                                              |
| Rated Operational Current AC-3        | Housing IP20<br>Main Circuit Terminals IP10                                                                                                                                                       |
| Degree of Protection                  | 3                                                                                                                                                                                                 |
| Pollution Degree                      | A9<br>A12<br>A16<br>A26<br>A30<br>A40<br>AL9<br>AL12<br>AL16<br>AL26<br>AL30<br>AL40                                                                                                              |
| Suitable For                          |                                                                                                                                                                                                   |

## Specifications

|                                              |                                                                                                                                                                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Current AC-15              | (120 V) NC 3 A<br>(120 V) NO 1.5 A<br>(240 V) NC 3 A<br>(240 V) NO 1.5 A<br>(400 V) NC 1.9 A<br>(400 V) NO 1 A<br>(440 V) NC 1 A<br>(440 V) NO 1 A<br>(500 V) NC 1 A<br>(500 V) NO 1 A                                                                                     |
| Rated Operational Current DC-13              | (125 V) NC 0.25 A<br>(125 V) NO 0.25 A<br>(24 V) NC 1.25 A<br>(24 V) NO 1.25 A<br>(250 V) NC 0.12 A<br>(250 V) NO 0.04 A<br>(60 V) NC 0.25 A<br>(60 V) NO 0.25 A                                                                                                           |
| Connecting Capacity Main Circuit             | Flexible with Ferrule 1x 0.75 ... 4 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 4 mm <sup>2</sup><br>Flexible 1x 0.75 ... 4 mm <sup>2</sup><br>Flexible 2x 0.75 ... 4 mm <sup>2</sup><br>Rigid 1x 0.75 ... 4 mm <sup>2</sup> /Rigid 2x 0.75 ... 4 mm <sup>2</sup> |
| Connecting Capacity Auxiliary Circuit        | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>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 12 mm                                                                                                                                                                                                                               |
| Tightening Torque                            | Auxiliary Circuit 1 ... 1.3 N·m<br>Main Circuit 1.5 ... 1.9 N·m                                                                                                                                                                                                            |
| Mounting Position                            | Position 1 to 4                                                                                                                                                                                                                                                            |
| Power Loss                                   | at Rated Operating Conditions per Pole 1.1 ... 2.2 W                                                                                                                                                                                                                       |
| Standards                                    | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 60947-5-1<br>UL 60947-1<br>UL 60947-4-1                                                                                                                                                                                       |
| Recommended Screw Driver                     | Auxiliary Circuit Pozidriv 1<br>Main Circuit Pozidriv 2                                                                                                                                                                                                                    |
| Maximum Operating Voltage UL/CSA             | Main Circuit 600 V AC                                                                                                                                                                                                                                                      |
| Ampere Rating UL/CSA                         | 11 A                                                                                                                                                                                                                                                                       |
| Contact Rating UL/CSA                        | (NC:) B600<br>(NO:) C300                                                                                                                                                                                                                                                   |
| Connecting Capacity Main Circuit UL/CSA      | Flexible 1/2x 16-8 AWG<br>Stranded 1/2x 16-8 AWG                                                                                                                                                                                                                           |
| Ambient Air Temperature                      | Operation -25 ... +55 °C<br>Operation Compensated -25 ... +55 °C<br>Storage -40 ... +70 °C                                                                                                                                                                                 |
| Ambient Air Temperature Compensation         | Yes                                                                                                                                                                                                                                                                        |
| Connecting Capacity Auxiliary Circuit UL/CSA | Flexible 1/2x 18-14 AWG<br>Stranded 1/2x 18-14 AWG                                                                                                                                                                                                                         |
| Resistance to Shock acc. to IEC 60068-2-27   | 11 ms Pulse 12g                                                                                                                                                                                                                                                            |
| Maximum Operating Altitude Permissible       | 2000 m                                                                                                                                                                                                                                                                     |
| RoHS Status                                  | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                          |
| Tightening Torque UL/CSA                     | Auxiliary Circuit 12 in·lb<br>Main Circuit 12 in·lb                                                                                                                                                                                                                        |
| Object Classification Code                   | F                                                                                                                                                                                                                                                                          |

## Classifications

|          |                                   |
|----------|-----------------------------------|
| ETIM 5.0 | EC000106 - Thermal overload relay |
| ETIM 6.0 | EC000106 - Thermal overload relay |
| ETIM 7   | EC000106 - Thermal overload relay |
| eClass   | 7.0 27371501                      |
| ETIM 4   | EC000106 - Thermal overload relay |

## Dimensions

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

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 1 piece       |
| Package Level 1 Width          | 98 mm         |
| Package Level 1 Depth / Length | 47 mm         |
| Package Level 1 Gross Weight   | 0.17 kg       |
| Package Level 1 EAN            | 4013614216602 |
| Package Level 1 Height         | 82 mm         |
| Package Level 2 Width          | 280 mm        |
| Package Level 2 Units          | 48 piece      |
| Package Level 2 Depth / Length | 395 mm        |
| Package Level 2 EAN            | 4013614441981 |
| Package Level 2 Gross Weight   | 8.546 kg      |
| Package Level 2 Height         | 210 mm        |

## Ordering

|                       |                                          |
|-----------------------|------------------------------------------|
| ECN                   | N                                        |
| Customs Tariff Number | 85364900                                 |
| ECCN                  | N                                        |
| ABB MDF Code          | 3DL - Relays (LV / Control + Protection) |