

PRODUCT-DETAILS

# TA25DU-8.5M

## TA25DU-8.5M Thermal Overload Relays



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | TA25DU-8.5M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product ID            | 1SAZ211201R2040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| EAN                   | 4013614482533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Catalog Description   | TA25DU-8.5M Thermal Overload Relays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Long Description      | TA25DU-8.5M (6.0-8.5A) 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 | 2CDC106031M6802 |
| Time-Current             | 1SAZ200501F0013 |

Characteristic Curve

|                         |                 |
|-------------------------|-----------------|
| CAD Dimensional Drawing | 2CDC001079B0201 |
|-------------------------|-----------------|

Dimensions

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

Technical

|                                                          |                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Voltage                                | Main Circuit 690 V AC<br>Main Circuit 440 V DC                                                                                                                                                                                                                               |
| Rated Operational Current (I <sub>e</sub> )              | 8.5 A                                                                                                                                                                                                                                                                        |
| Rated Frequency (f)                                      | Auxiliary Circuit 50 Hz<br>Auxiliary Circuit 60 Hz<br>Auxiliary Circuit DC<br>Main Circuit 60 Hz<br>Main Circuit 50 Hz<br>Main Circuit DC                                                                                                                                    |
| Number of Poles                                          | 3                                                                                                                                                                                                                                                                            |
| Number of Auxiliary Contacts NC                          | 1                                                                                                                                                                                                                                                                            |
| Number of Auxiliary Contacts NO                          | 1                                                                                                                                                                                                                                                                            |
| Number of Protected Poles                                | 1                                                                                                                                                                                                                                                                            |
| 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 IP10                                                                                                                                                                                                                                  |
| Pollution Degree                                         | 3                                                                                                                                                                                                                                                                            |
| 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>                                                                                                                                                                                          |
| 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><br>Rigid 2x 0.75 ... 4 mm <sup>2</sup> |
| Recommended Screw Driver                                 | Auxiliary Circuit Pozidriv 1<br>Main Circuit Pozidriv 2                                                                                                                                                                                                                      |
| Power Loss                                               | at Rated Operating Conditions per Pole 1.1 ... 2.2 W                                                                                                                                                                                                                         |
| Suitable For                                             | AX09<br>AX12<br>AX18<br>AX25                                                                                                                                                                                                                                                 |

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
|           | AX32                                                                                |
|           | 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 16-8 AWG<br>Stranded 1/2x 16-8 AWG    |
| Connecting Capacity Auxiliary Circuit UL/CSA | Flexible 1/2x 18-14 AWG<br>Stranded 1/2x 18-14 AWG  |
| Tightening Torque UL/CSA                     | Auxiliary Circuit 12 in-lb<br>Main Circuit 12 in-lb |

## Environmental

|                                            |                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +55 °C<br>Operation Compensated -25 ... +55 °C<br>Storage -40 ... +70 °C |
| Maximum Operating Altitude Permissible     | 2000 m                                                                                     |
| 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                     |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                           | No declaration needed                                                  |
| RoHS Information                            | 2CMT2021-006277                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| WEEE B2C / B2B                              | Business To Business                                                   |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## Certificates and Declarations

|                                 |                     |
|---------------------------------|---------------------|
| CB Certificate                  | 1SAA941013-2002     |
| CCS Certificate                 | 1SAA941000-0901     |
| CQC Certificate                 | CQC2015010309808585 |
| Declaration of Conformity - CCC | 2020980304001319    |
| Declaration of Conformity - CE  | 1SAD101100-3501     |
| EAC Certificate                 | 1SAA941002-2701     |
| RMRS Certificate                | 1SAA941000-0704     |
| UL Certificate                  | E48139-19970507     |

| 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            | 4013614482533 |
| 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 |
| ETIM 8                             | EC000106 - Thermal overload relay |
| eClass                             | V11.0 : 27371501                  |
| UNSPSC                             | 39121520                          |
| IDEA Granular Category Code (IGCC) | 5364 >> Overload relay            |
| E-Number (Finland)                 | 3707404                           |

## Categories

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

