MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ABB

TA25DU-1.8M 1SAZ211201R2025

ADJUSTABLE THERMAL OVERLOAD RELAY

Used with the applicable TA25DU-M thermal overload relays configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: ABB TA25DU-1.8M, product 1SAZ211201R2025, manufacturer product data, pages 1-4.

PRODUCT-DETAILS

TA25DU-1.8M

TA25DU-1.8M Thermal Overload Relays



General Information

Extended Product Type	TA25DU-1.8M
Product ID	1SAZ211201R2025
EAN	4013614482472
Catalog Description	TA25DU-1.8M Thermal Overload Relays
Long Description	TA25DU-1.8M (1.3-1.8A) 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 Characteristic Curve	1SAZ200501F0007

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 Main Circuit 440 V DC
Rated Operational Current (I_e)	1.8 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
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_{th})	Auxiliary Circuit NC 5 A Auxiliary Circuit NO 5 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP10
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible 1/2x 0.75 ... 2.5 mm² Rigid 1/2x 0.75 ... 4 mm²
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 0.75 ... 4 mm² Flexible with Ferrule 2x 0.75 ... 4 mm² Flexible 1x 0.75 ... 4 mm² Flexible 2x 0.75 ... 4 mm² Rigid 1x 0.75 ... 4 mm² Rigid 2x 0.75 ... 4 mm²
Recommended Screw Driver	Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2
Power Loss	at Rated Operating Conditions per Pole 1.1 ... 2.2 W
Suitable For	AX09 AX12 AX18 AX25 AX32 AX40
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 508

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	1.8 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 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 12 in·lb

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C 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

Certificates and Declarations (Document Number)

CB Certificate	1SAA941013-2002
CCS Certificate	1SAA941000-0901
CQC Certificate	CQC2015010309808585
Declaration of Conformity - CCC	2020980304001319
Declaration of Conformity - CE	1SAD938507-0186
EAC Certificate	1SAA941002-2701
Instructions and Manuals	2CDC106031M6802
RMRS Certificate	1SAA941000-0704
RoHS Information	1SAD938507-0186
Time-Current Characteristic Curve	1SAZ200501F0007
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	4013614482472
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)	3707396

Categories

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

