

Detailed information for: TA110DU-110

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Data Sheet

Documentation

TA110DU-110

General Information

Extended Product Type:TA110DU-110

Product ID: 1SAZ411201R1002

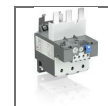
EAN: 4013614216800

Catalog Description: TA110DU-110 Thermal Overload Relay

Long Description: The TA110DU-110 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.

Categories

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



Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Dimensions

Product Net Width: 80 mm

Product Net Height: 120 mm

Product Net Depth: 120 mm

Product Net Weight: 0.755 kg

Popular Downloads

Data Sheet, Technical Information [1SAZ400501F0002](#)
(Part 2):

Dimension Diagram: [1SAZ400403F0001](#)

Technical

Setting Range: 80 ... 110 A

Rated Operational Voltage: Auxiliary Circuit 440 V DC
Auxiliary Circuit 500 V AC
Main Circuit 690 V AC

Rated Operational Current (I_e): 110 A

Rated Operational Current AC-3 (I_e): 110 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: 3

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 5 A
Auxiliary Circuit NO 5 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 1.5 A
(400 V) NC 1.9 A
(400 V) NO 1 A
(440 V) NC 1 A
(440 V) NO 1 A
(500 V) NC 1 A
(500 V) NO 1 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 mm²
Flexible 1/2x 0.75 ... 2.5 mm²
Rigid 1/2x 0.75 ... 4 mm²

Connecting Capacity Main Circuit: Flexible 1x 16 ... 35 mm²
Rigid 1x 16 ... 35 mm²

Tightening Torque: Auxiliary Circuit 1 ... 1.3 N·m
Main Circuit 7.2 ... 9.6 N·m

Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 25 mm
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 2 Main Circuit Hexagon 4
Mounting Position:	Position 1 to 4
Power Loss:	at Rated Operating Conditions per Pole 2.5 ... 4.7 W
Suitable For:	A95 A110 AE95 AE110
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

Environmental

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
RoHS Status:	Following EU Directive 2011/65/EC

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	110 A
Contact Rating UL/CSA:	(NC:) B600 (NO:) C600
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 6-2/0 AWG Stranded 1/2x 6-2/0 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

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941000-0102
BV Certificate:	1SAA941000-0201
CB Certificate:	1SAA941004-2003
CCC Certificate:	1SAA941001-3804
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938514-0043
DNV Certificate:	1SAA941000-0303
EAC Certificate:	1SAA941002-2701
Environmental Information:	1SAA941001-2401
GL Certificate:	1SAA941000-0403 1SAA941006-0403

GOST Certificate:	1SAA941000-2704
Instructions and Manuals:	2CDC106027M6802
LR Certificate:	1SAA941000-0504
RMRS Certificate:	1SAA941000-0704
RoHS Information:	1SAD938514-0043
UL Certificate:	UL_E48139 1SAA938001-1604

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	165 mm
Package Level 1 Height:	133 mm
Package Level 1 Length:	151 mm
Package Level 1 Gross Weight:	0.88 kg
Package Level 1 EAN:	4013614216800
Package Level 2 Units:	4 piece
Package Level 2 Width:	280 mm
Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Gross Weight:	8.786 kg
Package Level 2 EAN:	4013614494208

Classifications

Object Classification Code:	F
E-nummer:	3228692
ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
eClass:	7.0 27371501
UNSPSC:	39121521

Contact information

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