

TA110DU-90



General Information

Extended Product Type:	TA110DU-90
Product ID:	1SAZ411201R1001
EAN:	4013614216794
Catalog Description:	TA110DU-90 Thermal Overload Relay
Long Description:	The TA110DU-90 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

Accessories

Identifier	Description	Type	Qty
1SAZ401110R0001	DB200 Single Mounting Kit	DB200	1

Ordering

EAN:	4013614216794
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	80.0 mm
Product Net Height:	120.0 mm
Product Net Depth:	120.0 mm
Product Net Weight:	0.750 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	165.0 mm
Package Level 1 Height:	133.0 mm
Package Level 1 Length:	151.0 mm
Package Level 1 Gross Weight:	0.875 kg
Package Level 2 Units:	4 piece
Package Level 2 Width:	280.0 mm
Package Level 2 Height:	210.0 mm
Package Level 2 Length:	395.0 mm
Package Level 2 Gross Weight:	0.000 kg
Package Level 2 EAN:	4013614494192

Technical

Setting Range:	65.0 ... 90.0 A
Rated Operational Voltage:	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC
Rated Operational Current (I_e):	90 A 90.00 A

Rated Operational Current AC-3 (I_e):**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 10.00 A
 Auxiliary Circuit NO 6.00 A

Rated Operational Current AC-15 (I_e):

(120V) NC 3.000 A
 (120V) NO 1.500 A
 (240V) NC 3.000 A
 (240V) NO 1.500 A
 (400V) NC 1.900 A
 (400V) NO 1.000 A
 (440V) NC 1.000 A
 (440V) NO 1.000 A
 (500V) NC 1.000 A
 (500V) NO 1.000 A

Rated Operational Current DC-13 (I_e):

(125V) NC 0.250 A
 (125V) NO 0.250 A
 (24V) NC 1.250 A
 (24V) NO 1.250 A
 (250V) NC 0.120 A
 (250V) NO 0.040 A
 (60V) NC 0.250 A
 (60V) NO 0.250 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

Recommended Screw Driver:

Auxiliary Circuit Pozidriv 2
 Main Circuit Hexagon 4

Mounting Position:

Position 1 to 4

Power Loss:

Per Pole 2.4 ... 4.5 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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA**Maximum Operating Voltage UL/CSA:**

Main Circuit 600 V AC

Ampere Rating UL/CSA:

90.00 A

Contact Rating UL/CSA:(NC:) B600
(NO:) C300**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:**

1SAA941000-0101

BV Certificate:

1SAA941000-0201

CB Certificate:

1SAA941004-2003

CCC Certificate:

1SAA941001-3803

cUL Certificate:

cUL_E48139

Declaration of Conformity - CE:

1SAD938510-0043

DNV Certificate:

1SAA941000-0303

GL Certificate:

1SAA941000-0403

GOST Certificate:

1SAA941000-2704

LR Certificate:

1SAA941000-0503

RMRS Certificate:

1SAA941000-0703

RoHS Information:

1SAA938002-4402

UL Certificate:

UL_E48139

Classifications**Object Classification Code:**

F

E-nummer:

3228690

ETIM 4.0:

EC000106 - Thermal overload relay

ETIM 5.0:

EC000106 - Thermal overload relay

UNSPSC:

39121500