

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	Type	Description
1SAZ401110R0001	DB200	DB200 Single Mounting Kit

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

Technical

Setting Range:	65.0 ... 90.0 A
Rated Operational Voltage (U_e):	Main Circuit 690 V AC Auxiliary Circuit 500 V AC Auxiliary Circuit 440 V DC
Rated Operational Current (I_e):	90.0 A
Rated Operational Current AC-3 (I_e):	90.0 A
Rated Frequency (f_r):	Main Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit DC Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 6 kV Auxiliary 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 A Auxiliary Circuit NO 6 A
Rated Operational Current AC-15 (I_e):	(120V) NC 3 A (240V) NC 3 A (400V) NC 1.9 A (440V) NC 1 A (500V) NC 1 A (120V) NO 1.5 A (240V) NO 1.5 A (400V) NO 1 A (440V) NO 1 A

Rated Operational Current DC-13 (I_e):	(500V) NO 1 A (24V) NC 1.25 A (60V) NC 0.25 A (125V) NC 0.25 A (250V) NC 0.12 A (24V) NO 1.25 A (60V) NO 0.25 A (125V) NO 0.25 A (250V) NO 0.04 A
Degree of Protection:	Housing IP20 Main Circuit Terminals IP10
Pollution Degree:	3
Connecting Capacity-Auxiliary Circuit:	Rigid 1/2x 0.75 ... 4 mm ² Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ²
Connecting Capacity-Main Circuit:	Rigid 1x 16 ... 35 mm ² Flexible 1x 16 ... 35 mm ²
Tightening Torques:	Main Circuit 7.2 ... 9.6 N·m Auxiliary Circuit 1 ... 1.3 N·m
Recommended Screw Driver:	Main Circuit: Hexagon 4 Auxiliary Circuit: Pozidriv 2
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, UL508, CSA 22.2 No. 14

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:	90.0 A
Contact Rating UL/CSA:	(NC:) B600 (NO:) C300
Connecting Capacity-Main Circuit UL/CSA:	Stranded 1/2x 6 ... 2/0 AWG Flexible 1/2x 6 ... 2/0 AWG
Connecting Capacity-Auxiliary Circuit UL/CSA:	Stranded 1/2x 18 ... 14 AWG Flexible 1/2x 18 ... 14 AWG
Tightening Torques UL/CSA:	Auxiliary Circuit 12 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941000-0101
ATEX Certificate:	1SAA941000-3901
BV Certificate:	1SAA941000-0201
CB Certificate:	1SAA941004-2002
CCC Certificate:	1SAA941001-3803
CSA Certificate:	1SAA941003-1101
cUL Certificate:	1SAA941001-1702
Declaration of Conformity - CE:	1SAD938508-0043
DNV Certificate:	1SAA941000-0302
GL Certificate:	1SAA941000-0403
GOST Certificate:	1SAA941000-2703
LR Certificate:	1SAA941000-0503
PTB Certificate:	1SAA941000-1401
RMRS Certificate:	1SAA941000-0703
UL Certificate:	1SAA938001-1604

Classifications

Object Classification Code:	F
E-number:	E3228690

ETIM 4.0:	EC000106 - Thermal overload relay
ETIM 5.0:	EC000106 - Thermal overload relay
UNSPSC:	39121500