

TA110DU-90



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

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.

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:	0.75 kg

Popular Downloads

Data Sheet, Technical Information:	1SBC100173C0201
Data Sheet, Technical Information (Part 2):	1SAZ400501F0001
Instructions and Manuals:	2CDC106027M6802
Dimension Diagram:	1SAZ400403F0001

Technical

Setting Range:	65 ... 90 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
Rated Operational Current AC-3 (I_e):	90 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 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit:	Flexible 1x 16 ... 35 mm ² Rigid 1x 16 ... 35 mm ²
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 2.4 ... 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 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	90 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:	0.875 kg
Package Level 1 EAN:	4013614216794
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:	4013614494192

Classifications

Object Classification Code:	F
E-nummer:	3228690
ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
ETIM 7:	EC000106 - Thermal overload relay
eClass:	7.0 27371501
UNSPSC:	39121521

