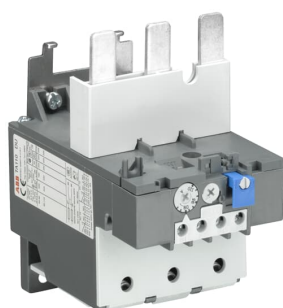


PRODUCT-DETAILS

TA110DU-90

TA110DU-90 Thermal Overload Relay 66 ... 90 A



General Information

Extended Product Type	TA110DU-90
Product ID	1SAZ411201R1001
EAN	4013614216794
Catalog Description	TA110DU-90 Thermal Overload Relay 66 ... 90 A
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

Popular Downloads

Instructions and Manuals	2CDC106027M6802
Instructions and	1SAC200017M0002

Manuals (Part 2)	
Time-Current Characteristic Curve	1SAZ400501F0001
Dimension Diagram	1SAZ400403F0001

Dimensions

Product Net Width	80 mm
Product Net Height	120 mm
Product Net Depth / Length	120 mm
Product Net Weight	0.75 kg

Technical

Setting Range	66 ... 90 A
Rated Operational Voltage	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current (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 1.2 A (400 V) NC 0.75 A (400 V) NO 0.37 A (440 V) NC 0.75 A (440 V) NO 0.37 A (500 V) NC 0.3 A (500 V) NO 0.25 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	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ²
Auxiliary Circuit	Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity	Flexible 1x 16 ... 35 mm ²
Main Circuit	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
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

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NO:) C600
Connecting Capacity	Flexible 1/2x 6-2/0 AWG
Main Circuit UL/CSA	Stranded 1/2x 6-2/0 AWG
Connecting Capacity	Flexible 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 12 in·lb

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 25g 2 shocks 13 ms
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Material Compliance

RoHS Information	1SAD938518-0043
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

ABS Certificate	1SAA941000-0102
BV Certificate	1SAA941000-0201
CB Certificate	1SAA941004-2003
CQC Certificate	CQC2016010309922936
Declaration of Conformity - CCC	2020980304001321
Declaration of Conformity - CE	1SAD101100-3509
Declaration of Conformity - UKCA	1SAD201100-3509
DNV Certificate	1SAA941000-0304
DNV GL Certificate	1SAA941000-0304
EAC Certificate	1SAA941002-2702
GL Certificate	1SAA941000-0304
LR Certificate	1SAA941000-0504
RMRS Certificate	1SAA941000-0704
UL Certificate	E48139-19960919

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	165 mm
Package Level 1 Height	133 mm
Package Level 1 Depth / Length	151 mm
Package Level 1 Gross Weight	0.875 kg
Package Level 1 EAN	4013614216794
Package Level 2 Units	carton 4 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	8.786 kg
Package Level 2 EAN	4013614494192

Classifications

Object Classification Code	F
ETIM 4	EC000106 - Thermal overload relay
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	39122330
IDEA Granular Category Code (IGCC)	5366 >> Thermal overload relay
E-Number (Finland)	3709355

Categories

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

