

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

## General Information

<b>Extended Product Type:</b>	TA200DU-90
<b>Product ID:</b>	1SAZ421201R1001
<b>EAN:</b>	4013614285868
<b>Catalog Description:</b>	TA200DU-90 Thermal Overload Relay
<b>Long Description:</b>	The TA200DU-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.

## Additional Information

<b>ABS Certificate:</b>	1SAA941000-0102
<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
<b>Ambient Air Temperature Compensation:</b>	Yes
<b>Ampere Rating UL/CSA:</b>	90 A
<b>BV Certificate:</b>	1SAA941000-0201
<b>CB Certificate:</b>	1SAA941004-2003
<b>CCC Certificate:</b>	1SAA941001-3803
<b>Co-ordination with Short-Circuit Protective Devices - Type 1:</b>	gG Type Fuses 200 A
<b>Co-ordination with Short-Circuit Protective Devices - Type 2:</b>	gG Type Fuses 200 A
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Flexible 1x 4-0000 AWG Stranded 1x 4-0000 AWG
<b>Connecting Capacity Auxiliary Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>
<b>Connecting Capacity Main Circuit:</b>	Hole Diameter > 10 mm <sup>2</sup> Rigid or Flexible with Cable Lug 1x 25 ... 120 mm <sup>2</sup>
<b>Contact Rating UL/CSA:</b>	(NC:) B600 (NO:) C600
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Auxiliary Circuit NC 5 A Auxiliary Circuit NO 5 A
<b>Country of Origin:</b>	Czech Republic (CZ)
<b>Customs Tariff Number:</b>	85364900
<b>DNV Certificate:</b>	1SAA941000-0303
<b>Data Sheet, Technical Information:</b>	1SBC100173C0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAZ400502F0001
<b>Declaration of Conformity - CE:</b>	1SAD938513-0043
<b>Degree of Protection:</b>	Housing IP20 Main Circuit Terminals IP00
<b>Dimension Diagram:</b>	1SAZ400401F0001
<b>E-number:</b>	3228700
<b>EAC Certificate:</b>	1SAA941002-2701

<b>EAN:</b>	4013614285868
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Relays, contactors / General
<b>EPLAN Function Definition:</b>	NO contact / NO contact, 2 connection points / NO auxiliary contact 97_98 NC contact / NC contact, 2 connection points / NC auxiliary contact 95_96 Overload / Thermal release, 6 connection points / Thermal release (bimetal relay) 1_2_3_4_5_6
<b>ETIM 4:</b>	EC000106 - Thermal overload relay
<b>ETIM 5:</b>	EC000106 - Thermal overload relay
<b>ETIM 6:</b>	EC000106 - Thermal overload relay
<b>Environmental Information:</b>	1SAA941001-2401
<b>GL Certificate:</b>	1SAA941000-0403 1SAA941006-0403
<b>GOST Certificate:</b>	1SAA941000-2704
<b>IIT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	2CDC106028M6802
<b>Invoice Description:</b>	TA200DU-90 Thermal Overload Relay Trip class 10A, 66.0-90.0A
<b>LR Certificate:</b>	1SAA941000-0504
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Minimum Order Quantity:</b>	1 piece
<b>Minimum Switching Capacity:</b>	17 V 3 mA
<b>Mounting Position:</b>	Position 1 to 6
<b>Mounting Type:</b>	Mounted on Contactor / Single Mounting
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Poles:</b>	3
<b>Number of Protected Poles:</b>	3
<b>Object Classification Code:</b>	F
<b>Overvoltage Category:</b>	up to II / III
<b>Package Level 1 EAN:</b>	4013614285868
<b>Package Level 1 Gross Weight:</b>	1.005 kg
<b>Package Level 1 Height:</b>	133 mm
<b>Package Level 1 Length:</b>	151 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	165 mm
<b>Package Level 2 EAN:</b>	4013614494239
<b>Package Level 2 Gross Weight:</b>	8.786 kg
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Length:</b>	395 mm
<b>Package Level 2 Units:</b>	4 piece
<b>Package Level 2 Width:</b>	280 mm
<b>Phase Loss Sensitive:</b>	Yes
<b>Pollution Degree:</b>	3
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 2.4 ... 4.5 W
<b>Product Frame Size:</b>	5
<b>Product Main Type:</b>	TA200DU
<b>Product Name:</b>	Thermal Overload Relay
<b>Product Net Depth:</b>	126 mm

<b>Product Net Height:</b>	151 mm
<b>Product Net Weight:</b>	0.755 kg
<b>Product Net Width:</b>	104 mm
<b>RMRS Certificate:</b>	1SAA941000-0703
<b>Rated Frequency (f):</b>	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Auxiliary Circuit 6 kV Main Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V
<b>Rated Operational Current (I<sub>e</sub>):</b>	90 A
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	90 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(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
<b>Rated Operational Voltage:</b>	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC
<b>Recommended Screw Driver:</b>	Auxiliary Circuit Pozidriv 2 Main Circuit Open Bars
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 12g
<b>RoHS Date:</b>	0317
<b>RoHS Information:</b>	1SAA941003-4404
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selling Unit of Measure:</b>	piece
<b>Setting Range:</b>	66 ... 90 A
<b>Short Description:</b>	TA200DU-90 Thermal Overload Relay
<b>Short-Circuit Protective Devices:</b>	Auxiliary Circuit - gG Type Fuses 6 A
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
<b>Suitable For:</b>	A145 A185 AF145 AF185 AF190 AF205

AF205

<b>Suitable for Product Class:</b>	Block Contactors
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 25 N·m
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 12 in·lb Main Circuit 220 in·lb
<b>Trip Class:</b>	10A
<b>UL Certificate:</b>	UL_E48139 1SAA938001-1604
<b>UNSPSC:</b>	39121521
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm
<b>cUL Certificate:</b>	cUL_E48139
<b>eClass:</b>	7.0 27371501