TA450DU-235

General Information

Extended Product Type:	TA450DU-235
Product ID:	1SAZ511201R1002
EAN:	4013614286094
Catalog Description:	TA450DU-235 Thermal Overload Relay
Long Description:	The TA450DU-235 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 with a mounting onto 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	Qty
1SAZ201504R0001	DR25-A-24	DR25-A-24 Remote Reset Coil	1
1SAZ201504R0003	DR25-A-110	DR25-A-110 Remote Reset Coil	1
1SAZ201504R0005	DR25-A-220/380	DR25-A-220/380 Remote Reset Coil	1
1SAZ201504R0006	DR25-A-500	DR25-A-500 Remote Reset Coil	1

Ordering

EAN:	4013614286094
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	193.0 mm
Product Net Height:	75.0 mm
Product Net Depth:	172.5 mm
Product Net Weight:	1.500 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	215.0 mm
Package Level 1 Height:	140.0 mm
Package Level 1 Length:	200.0 mm
Package Level 1 Gross Weight:	1.750 kg

Technical

Setting Range:	165 ... 235 A
Rated Operational Voltage:	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 1000 V AC
Rated Operational Current (I_e):	235 A
Rated Operational Current AC-3 (I_e):	235.00 A
Rated Frequency (f):	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz

	Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
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:	IP20
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:	Bar < 21.0 x 28.4 mm²
Recommended Screw Driver:	Main Circuit Pozidriv 2
Mounting Position:	Position 1 to 4
Power Loss:	Per Pole 2.2 W
Suitable For:	A210 A260 A300 AF210 AF260 AF300
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:	235.00 A
Contact Rating UL/CSA:	(NC:) B600 (NO:) C300
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:	1SAA941006-2002
CCC Certificate:	1SAA941004-3803
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938510-0043
DNV Certificate:	1SAA941000-0303
GL Certificate:	1SAA941006-0403
GOST Certificate:	1SAA941000-2704
LR Certificate:	1SAA941000-0503
RMRS Certificate:	1SAA941000-0703
RoHS Information:	1SAA941003-4404
UL Certificate:	UL_E48139

Classifications

Object Classification Code:	F
E-nummer:	3228717
ETIM 4.0:	EC000106 - Thermal overload relay
ETIM 5.0:	EC000106 - Thermal overload relay
UNSPSC:	39121500