

TA25DU-25-20



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

General Information

Extended Product Type:	TA25DU-25-20
Product ID:	1SAZ211401R1051
EAN:	4013614376603
Catalog Description:	TA25DU-25-20 Thermal Overload Relay
Long Description:	The TA25DU-25-20 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 20. 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

ABS Certificate:	1SAA941000-0102
Ambient Air Temperature:	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
Ambient Air Temperature Compensation:	Yes
Ampere Rating UL/CSA:	25 A
BV Certificate:	1SAA941000-0201
CB Certificate:	1SAA941005-2001
CCC Certificate:	1SAA941002-3806
Co-ordination with Short-Circuit Protective Devices - Type 1:	gG Type Fuses 80 A
Co-ordination with Short-Circuit Protective Devices - Type 2:	gG Type Fuses 80 A
Connecting Capacity Auxiliary Circuit UL/CSA:	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 14-10 AWG Stranded 1/2x 14-10 AWG
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 with Ferrule 1/2x 1.5 ... 4 mm ² Flexible 1/2x 1.5 ... 4 mm ² Rigid 1/2x 1.5 ... 6 mm ²
Contact Rating UL/CSA:	(NC:) B600 (NO:) C300
Conventional Free-air Thermal Current (I_{th}):	Auxiliary Circuit NC 10 A Auxiliary Circuit NO 6 A
Country of Origin:	Bulgaria (BG)
Customs Tariff Number:	85364900
DNV Certificate:	1SAA941000-0303
Data Sheet, Technical Information:	1SBC100173C0201
Data Sheet, Technical Information (Part 2):	1SAZ200503F0011
Declaration of Conformity - CE:	1SAD938513-0043
Degree of Protection:	Housing IP20 Main Circuit Terminals IP10
Dimension Diagram:	1SAZ200402F0001
EAC Certificate:	1SAA941002-2701
EAN:	4013614376603

EAN:	40136143/6603
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / General
EPLAN Function Definition:	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
ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
Environmental Information:	1SAA941001-2401
GL Certificate:	1SAA941000-0403
GOST Certificate:	1SAA941000-2704
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CDC106031M6802
Invoice Description:	TA25DU-25-20 Thermal Overload Relay Trip class 20, 18.0-25.0A
LR Certificate:	1SAA941000-0504
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Minimum Order Quantity:	1 piece
Mounting Position:	Position 1 to 4
Mounting Type:	Mounted on Contactor
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	1
Number of Poles:	3
Number of Protected Poles:	3
Object Classification Code:	F
Package Level 1 EAN:	4013614376603
Package Level 1 Gross Weight:	0.22 kg
Package Level 1 Height:	82 mm
Package Level 1 Length:	47 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	98 mm
Package Level 2 Gross Weight:	8.086 kg
Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Units:	35 piece
Package Level 2 Width:	280 mm
Phase Loss Sensitive:	Yes
Pollution Degree:	3
Power Loss:	at Rated Operating Conditions per Pole 1.5 ... 3.0 W
Product Main Type:	TA25DU
Product Name:	Thermal Overload Relay
Product Net Depth:	94 mm
Product Net Height:	80 mm
Product Net Weight:	0.2 kg
Product Net Width:	44 mm
RMRS Certificate:	1SAA941000-0704
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
Rated Operational Current (I_e):	25 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 AC-3 (I_e):	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
Rated Operational Voltage:	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC
Recommended Screw Driver:	Main Circuit Pozidriv 2
Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 12g
RoHS Date:	0066
RoHS Information:	1SAA941002-4403
Selling Unit of Measure:	piece
Setting Range:	18 ... 25 A
Short Description:	TA25DU-25-20 Thermal Overload Relay
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 6 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Suitable For:	A9 A12 A16 A26 A30 A40 AL9 AL12 AL16 AL26 AL30 AL40
Suitable for Product Class:	Block Contactors
Terminal Type:	Screw Terminals
Technical Terminals:	Auxiliary Circuit 4 ... 4 0 A

Tightening Torque:	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 1.5 ... 1.9 N·m
Tightening Torque UL/CSA:	Auxiliary Circuit 12 in·lb Main Circuit 12 in·lb
Trip Class:	20
UL Certificate:	UL_E48139
UNSPSC:	39121521
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 12 mm
cUL Certificate:	cUL_E48139
eClass:	7.0 27371501