

PRODUCT-DETAILS

# TA25DU-19-20

## TA25DU-19-20 Thermal Overload Relay



### General Information

Extended Product Type	TA25DU-19-20
Product ID	1SAZ211401R1047
EAN	4013614376597
Catalog Description	TA25DU-19-20 Thermal Overload Relay

Long Description	The TA25DU-19-20 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.
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### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Dimensions

Product Net Width	44 mm
Product Net Height	80 mm
Product Net Depth / Length	94 mm
Product Net Weight	0.2 kg

## Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical Information (Part 2)	1SAZ200503F0010
Instructions and Manuals	2CDC106031M6802
Dimension Diagram	1SAZ200402F0001

## Technical

Setting Range	13 ... 19 A
Rated Operational Voltage	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC
Rated Operational Current ( $I_e$ )	19 A
Rated Operational Current AC-3 ( $I_e$ )	19 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 10 A Auxiliary Circuit NO 6 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 <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1.5 ... 4 mm <sup>2</sup> Flexible 1/2x 1.5 ... 4 mm <sup>2</sup>

	Rigid 1/2x 1.5 ... 6 mm <sup>2</sup>
Tightening Torque	Auxiliary Circuit 1 ... 1.3 N-m Main Circuit 1.5 ... 1.9 N-m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver	Auxiliary Circuit Pozidriv 1 Main Circuit Pozidriv 2
Mounting Position	Position 1 to 4
Power Loss	at Rated Operating Conditions per Pole 1.1 ... 2.3 W
Suitable For	A9 A12 A16 A26 A30 A40 AL9 AL12 AL16 AL26 AL30 AL40
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
Ampere Rating UL/CSA	19 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 14-10 AWG Stranded 1/2x 14-10 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 Main 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
RoHS Status	Following EU Directive 2011/65/EU

## Certificates and Declarations (Document Number)

ABS Certificate	1SAA941000-0102
BV Certificate	1SAA941000-0201
CB Certificate	1SAA941005-2001
CCC Certificate	1SAA941002-3806
cUL Certificate	cUL_E48139
Declaration of	1SAD938517-0043

## Conformity - CE

DNV Certificate	1SAA941000-0304
DNV GL Certificate	1SAA941000-0304
EAC Certificate	1SAA941002-2702
Environmental Information	1SAA941001-2401
GL Certificate	1SAA941000-0304
GOST Certificate	1SAA941000-2704
Instructions and Manuals	2CDC106031M6802
LR Certificate	1SAA941000-0504
RMRS Certificate	1SAA941000-0704
RoHS Information	1SAD938514-0043
UL Certificate	UL_E48139

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**Container Information**

Package Level 1 Units	1 piece
Package Level 1 Width	98 mm
Package Level 1 Height	82 mm
Package Level 1 Depth / Length	47 mm
Package Level 1 Gross Weight	0.22 kg
Package Level 1 EAN	4013614376597
Package Level 2 Units	35 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	8.086 kg

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**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
eClass	7.0 27371501
UNSPSC	39121521

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**Categories**

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

