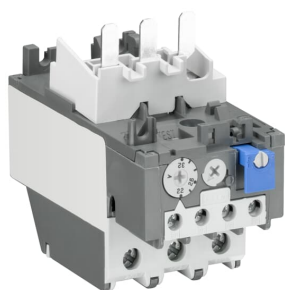


PRODUCT-DETAILS

# TA42DU-42M

## TA42DU-42M Thermal Overload Relays



### General Information

Extended Product Type	TA42DU-42M
Product ID	1SAZ311201R2003
EAN	4013614482618
Catalog Description	TA42DU-42M Thermal Overload Relays

Long Description

TA42DU-42M (29.0-42.0A) 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

### Dimensions

Product Net Width	54 mm
Product Net Height	90 mm
Product Net Depth / Length	111 mm
Product Net Weight	0.335 kg

## Popular Downloads

Instructions and  
Manuals

2CDC106049M6802

## Technical

Setting Range	29.0 ... 42.0 A
Rated Operational Voltage	Auxiliary Circuit 440/500 V AC/DC Main Circuit 690 V AC
Rated Operational Current ( $I_e$ )	42 A
Rated Operational Current AC-3 ( $I_e$ )	42 A
Rated Frequency (f)	Auxiliary Circuit DC/50/60 Hz Main Circuit DC/50/60 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 5 A Auxiliary Circuit NO 5 A
Rated Operational Current AC-15 ( $I_e$ )	(120 V) NC 3.000 A (120 V) NO 1.500 A (240 V) NC 3.000 A (240 V) NO 1.500 A (400 V) NC 1.900 A (400 V) NO 1.000 A (440 V) NC 1.000 A (440 V) NO 1.000 A (500 V) NC 1.000 A (500 V) NO 1.000 A
Rated Operational Current DC-13 ( $I_e$ )	(125 V) NC 0.250 A (125 V) NO 0.250 A (24 V) NC 1.250 A (24 V) NO 1.250 A (250 V) NC 0.120 A (250 V) NO 0.040 A (60 V) NC 0.250 A (60 V) NO 0.250 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP20
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	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 1x 2.5 ... 25 mm <sup>2</sup> Flexible with Ferrule 2x 2.5 ... 10 mm <sup>2</sup> Flexible with Ferrule 2x 2.5 ... 10 mm <sup>2</sup> Rigid 1x 2.5 ... 25 mm <sup>2</sup> Rigid 2x 2.5 ... 16 mm <sup>2</sup>
Tightening Torque	Main Circuit 1 ... 1.3 N·m Main Circuit Auxiliary Circuit 4.5 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 14 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 1.5 ... 3.2 W
Suitable For	AX32 AX40
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 508

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	42 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C600
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 8-1 AWG Stranded 1/2x 8-1 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 40 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)

CB Certificate	1SAA941014-2001
CCC Certificate	1SAA941011-3812
CCS Certificate	1SAA941000-0901
Declaration of Conformity - CE	1SAD938506-0186
EAC Certificate	1SAA941002-2701
Instructions and Manuals	2CDC106049M6802
RMRS Certificate	1SAA941000-0704
RoHS Information	1SAD938514-0043

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	92 mm
Package Level 1 Height	109 mm
Package Level 1 Depth / Length	61 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	4013614482618

Package Level 2 Units	25 piece
Package Level 2 Width	230 mm
Package Level 2 Height	310 mm
Package Level 2 Depth / Length	380 mm
Package Level 2 Gross Weight	8.786 kg

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## Classifications

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

