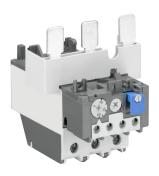


PRODUCT-DETAILS

TA80DU-42M TA80DU-42M Thermal Overload Relay 29 ... 42 A



General Information	
Extended Product Type	TA80DU-42M
Product ID	1SAZ331201R2003
EAN	4013614483912
Catalog Description	TA80DU-42M Thermal Overload Relay 29 42 A
	TA80DU-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

Long Description

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

Popular Downloads	
Instructions and Manuals	2CDC106080M6802
Time-Current Characteristic Curve	1SAZ300501F0003
CAD Dimensional Drawing	2CDC001079B0201

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Dimension Diagram 1SAZ300403F0001

Product Net Width	78 mm
Product Net Height	97 mm
Product Net Depth / Length	111 mm
Product Net Weight	0.36 kg

Technical	
Setting Range	29 42 A
Rated Operational Voltage	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current (I_e)	42 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 5 A Auxiliary Circuit NO 5 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 1.2 A (400 V) NC 0.75 A (400 V) NC 0.37 A (440 V) NC 0.37 A (440 V) NC 0.37 A (500 V) NC 0.34 A (500 V) NC 0.35 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
Degree of Protection	(60 V) NO 0.25 A IP20 Housing IP20
Pollution Degree	Main Circuit Terminals IP10
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 1x 2.5 25 mm² Flexible with Ferrule 2x 2.5 10 mm² Rigid 1x 2.5 25 mm² Rigid 2x 2.5 16 mm²

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Tightening Torque	Auxiliary Circuit 1 1.3 N·m Main 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	any
Power Loss	at Rated Operating Conditions per Pole 1.5 3.2 W
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
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 <u>UL/CSA</u>	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 25g 2 shocks 13 ms
Resistance to Vibrations	20 Cycles with Load 0.8 In: 5g 5 150 5 Hz
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	No declaration needed
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
CB Certificate	1SAA941014-2001
CCS Certificate	1SAA941000-0901
CQC Certificate	CQC2016010309922937
Declaration of Conformity - CCC	2020980304001322
Declaration of Conformity - CE	1SAD101100-3501
UL Certificate	E48139-19960918

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Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	105 mm
Package Level 1 Height	90 mm
Package Level 1 Depth / Length	125 mm
Package Level 1 Gross Weight	0.4 kg
Package Level 1 EAN	4013614483912
Package Level 2 Units	16 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	8.786 kg

Classifications	
Object Classification Code	F
ETIM 5	EC000106 - Thermal overload relay
ETIM 6	EC000106 - Thermal overload relay
ETIM 7	EC000106 - Thermal overload relay
ETIM 8	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39121520
IDEA Granular Category Code (IGCC)	5364 >> Overload relay

Categories

 $\mbox{Low Voltage Products and Systems} \rightarrow \mbox{Control Products} \rightarrow \mbox{Contactors} \rightarrow \mbox{Thermal Overload Relays}$

