

Alternate Catalog No. TA80DU42RT
Catalog No. 1SAZ381201R1003

Description: TA80DU-42-RT Thermal Overload Relay

UPC No 4013614480515

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TA80DU-42RT Thermal overload relay Trip class 10A, 29-42A

Descriptors

Category	Overload Relays

Specifications

Product Name	Thermal Overload Relay
Rated Operational Voltage	Auxiliary Circuit 440/500 V DC/V AC Main Circuit 690 V AC
Rated Operational Current	42 A
Setting Range	29 ... 42 A
Rated Impulse Withstand Voltage	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage	690 V
Number of Poles	3
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Trip Class	class 10A
Conventional Free-air Thermal Current	Auxiliary Circuit NC 10 A Auxiliary Circuit NO 6 A
Rated Frequency	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 60 Hz Main Circuit 50Hz Main Circuit DC
Rated Operational Current AC-3	42 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP00
Pollution Degree	3
Rated Operational Current AC-15	(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

by ABB

Specifications

Rated Operational Current DC-13	(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
Connecting Capacity Main Circuit	Hole Diameter > 6 mm² Rigid or Flexible with Cable Lug 1x 2.5 ... 25 mm²
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
Tightening Torque	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 4 N·m
Mounting Position	Position 1 to 4
Power Loss	at Rated Operating Conditions per Pole 2.2 ... 3.9 W
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-4-1 UL508
Recommended Screw Driver	Auxiliary Circuit Pozidriv 1 Main Circuit Open Bars
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	42 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C300
Ambient Air Temperature	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
Ambient Air Temperature Compensation	Yes
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 12g
Maximum Operating Altitude Permissible	2000 m
RoHS Status	Following EU Directive 2011/65/EU
Tightening Torque UL/CSA	Auxiliary Circuit 12 in·lb Main Circuit 35 in·lb
Object Classification Code	F

Classifications

ETIM 5.0	EC000106 - Thermal overload relay
ETIM 6.0	EC000106 - Thermal overload relay
ETIM 7	EC000106 - Thermal overload relay
eClass	7.0 27371501
ETIM 4	EC000106 - Thermal overload relay

Dimensions

Product Net Width	54 mm
Product Net Height	95.5 mm
Product Net Weight	0.31kg
Product Net Depth / Length	111.5 mm

Package Information

Package Level 1 Units	1 piece
Package Level 1 Width	112 mm

Package Information

Package Level 1 Depth / Length	143 mm
Package Level 1 Gross Weight	0.44 kg
Package Level 1 EAN	4013614480515
Package Level 1 Height	61 mm
Package Level 2 Width	280 mm
Package Level 2 Units	24 piece
Package Level 2 Depth / Length	395 mm
Package Level 2 EAN	4013614494147
Package Level 2 Gross Weight	8.786 kg
Package Level 2 Height	210 mm

Ordering

ECN	N
Customs Tariff Number	85364900
ECCN	N
ABB MDF Code	3DL - Relays (LV / Control + Protection)