

TA80DU-80

ABB contact for United
States of America



General Information

Extended Product Type:	TA80DU-80
Product ID:	1SAZ331201R1006
EAN:	4013614216787
Catalog Description:	TA80DU-80 Thermal Overload Relay
Long Description:	The TA80DU-80 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.

Categories

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

Accessories

Identifier	Type	Description	Qty
1SAZ301110R0001	DB80	DB80 Single Mounting Kit	1

Ordering

EAN:	4013614216787
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	78.0 mm
Product Net Height:	97.0 mm
Product Net Depth:	111.0 mm
Product Net Weight:	0.375 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	105.0 mm
Package Level 1 Height:	90.0 mm
Package Level 1 Length:	125.0 mm
Package Level 1 Gross Weight:	0.415 kg
Package Level 2 Units:	16 piece
Package Level 2 Width:	280.0 mm
Package Level 2 Height:	210 mm
Package Level 2 Length:	395.0 mm
Package Level 2 Gross Weight:	0.000 kg
Package Level 2 EAN:	4013614494031

Technical

Setting Range:	60 ... 80 A
Rated Operational Voltage:	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC

	Main Circuit 690 V AC
Rated Operational Current (I_e):	80 A
Rated Operational Current AC-3 (I_e):	80 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):	(120V) NC 3 A (120V) NO 1.5 A (240V) NC 3 A (240V) NO 1.5 A (400V) NC 1.9 A (400V) NO 1 A (440V) NC 1 A (440V) NO 1 A (500V) NC 1 A (500V) NO 1 A
Rated Operational Current DC-13 (I_e):	(125V) NC 0.25 A (125V) NO 0.25 A (24V) NC 1.25 A (24V) NO 1.25 A (250V) NC 0.12 A (250V) NO 0.04 A (60V) NC 0.25 A (60V) 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 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 mm ² Flexible with Ferrule 2x 2.5 ... 10 mm ² Rigid 1x 2.5 ... 25 mm ² Rigid 2x 2.5 ... 16 mm ²
Tightening Torque:	Auxiliary Circuit 1 ... 1.3 N·m Main Circuit 4.5 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver:	Main Circuit Pozidriv 2
Mounting Position:	Position 1 to 4
Power Loss:	Per Pole 2.2 ... 3.9 W
Suitable For:	A95 A110 AE95 AE110
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1

IEC/EN 60947-5-1
 UL 60947-1
 UL 60947-4-1

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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	80 A
Contact Rating UL/CSA:	(NC:) B600 (NO:) C300
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

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941000-0101
BV Certificate:	1SAA941000-0201
CB Certificate:	1SAA941002-2001
CCC Certificate:	1SAA941003-3805
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938510-0043
DNV Certificate:	1SAA941000-0303
GL Certificate:	1SAA941000-0403
GOST Certificate:	1SAA941000-2704
LR Certificate:	1SAA941000-0503
RMRS Certificate:	1SAA941000-0703
RoHS Information:	1SAA941002-4403
UL Certificate:	UL_E48139

Classifications

Object Classification Code:	F
eClass:	7.0 27371501
E-nummer:	3228681
ETIM 4.0:	EC000106 - Thermal overload relay
ETIM 5.0:	EC000106 - Thermal overload relay
UNSPSC:	39121500

