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Detailed information for: TF140DU-142

This page contains technical data sheet, documents library and links to offering related to this product. If you require any other information, please contact us using form located at the bottom of the page.

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TF140DU-142

General Information

Extended Product Type:

TF140DU-142

Product ID:

1SAZ431201R1004

EAN:

4013614446849

Catalog Description:

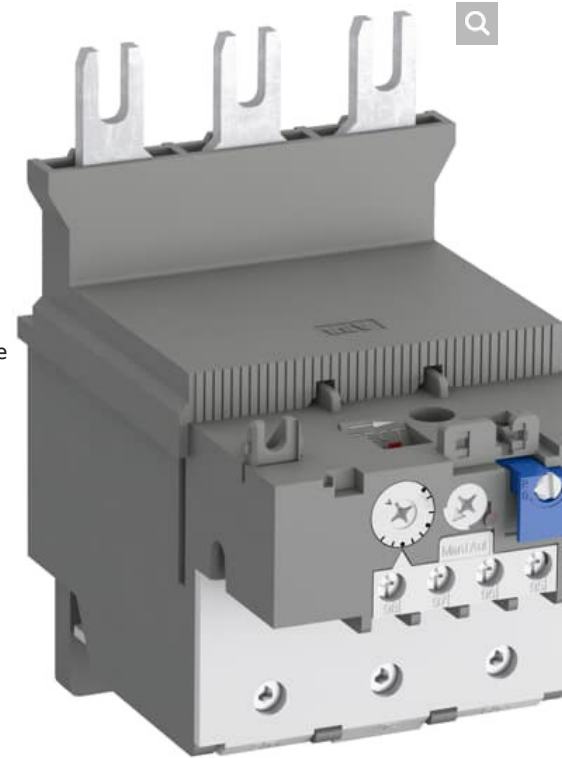
TF140DU-142 Thermal Overload Relay

Long Description:

The TF140DU-142 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.

Categories

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



+ Accessories

Ordering

Minimum Order Quantity:

1 piece

Customs Tariff Number:

85364900

Popular Downloads

Data Sheet, Technical Information:

[2CDC106061D0201](#)

Instructions and Manuals:

[2CDC106050M6802](#)

Time-Current Characteristic Curve:

[1SAZ400503F0004](#)

Dimension Diagram:

[1SAZ400404F0001](#)

Dimensions

Product Net Width:

89 mm

Product Net Height:

140 mm

Product Net Depth / Length:

126 mm

Product Net Weight:

0.82 kg

Technical

Setting Range:

110 ... 142 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):

140 A

Rated Operational Current AC-3 (I_e):

140 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 8 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 mm²

Flexible 1/2x 0.75 ... 2.5 mm²

Rigid 1/2x 0.75 ... 4 mm²

Connecting Capacity Main Circuit:

Flexible with Ferrule 1/2x 16 ... 70 mm²

Flexible with Insulated Ferrule 1/2x 16 ... 70 mm²

Flexible 1/2x 16 ... 70 mm²

Rigid 1/2x 16 ... 70 mm²

Tightening Torque:

Auxiliary Circuit 0.8 ... 1.2 N·m

Main Circuit 8 ... 10 N·m

Wire Stripping Length:

Auxiliary Circuit 9 mm

Main Circuit 25 mm

Recommended Screw Driver:

Auxiliary Circuit Pozidriv 2

Main Circuit Hexagon 4

Suitable For:

AF116

AF140

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:

142 A

Contact Rating UL/CSA:

(NC:) B600

(NO:) C300

Connecting Capacity Main Circuit UL/CSA:

Flexible 1/2x 6-2/0 AWG

Stranded 1/2x 6-2/0 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

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:

[1SAA941004-0101](#)

BV Certificate:

[1SAA941003-0201](#)

CB Certificate:

[1SAA941012-2001](#)

CQC Certificate:

[CQC2016010309922935](#)

cUL Certificate:

[cUL_E48139](#)

Declaration of Conformity - CCC:

[2020980304001320](#)

Declaration of Conformity - CE:

[1SAD938506-0185](#)

DNV GL Certificate:

[1SAA941004-0301](#)

EAC Certificate:

[1SAA941002-2702](#)

Environmental Information:

[1SAC200090H0009](#)

GOST Certificate:

[1SAA941001-2701](#)

Instructions and Manuals:

[2CDC106050M6802](#)

LR Certificate:

[1SAA941004-0501](#)

RINA Certificate:

[RINA_ELE098115XG](#)

RMRS Certificate:

[1SAA941002-0701](#)

RoHS Information:

[1SAD938503-0185](#)

Time-Current Characteristic Curve:

[1SAZ400503F0004](#)

UL Certificate:

[UL_E48139](#)

Container Information

Package Level 1 Units:

1 piece

Package Level 1 Width:

165 mm

Package Level 1 Height:

133 mm

Package Level 1 Depth / Length:

151 mm

Package Level 1 Gross Weight:

0.945 kg

Package Level 1 EAN:

4013614446849

Package Level 2 Units:

4 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
Package Level 2 EAN:
4013614494383

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:

V11.0 : 27371501

UNSPSC:

39121520

IDEA Granular Category Code (IGCC):

5364 >> Overload relay

E-Number (Finland):

3706579

E-Number (Sweden):

3210244

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