# Detailed information for: TF96-60

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Data Sheet

**Downloads** 

## TF96-60

### **General Information**

**Extended Product Type:** 

TF96-60

Product ID:

1SAZ911201R1002

EAN:

4013614482991

Catalog Description:

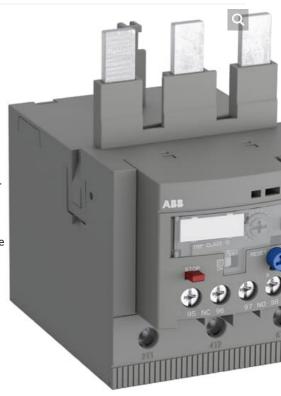
TF96-60 Thermal Overload Relay

Long Description:

The TF96-60 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 10. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP 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

# Ordering

Minimum Order Quantity:

1 piece

**Customs Tariff Number:** 

85364900

#### **Popular Downloads**

Data Sheet, Technical Information:

2CDC106069D0201

Data Sheet, Technical Information (Part 3):

1SAZ800503

1SAZ900506

Instructions and Manuals:

2CDC106052M6803

Instructions and Manuals (Part 2):

2CDC106086M6801

Time-Current Characteristic Curve:

1SAZ900502F0002

Dimension Diagram:

1SAZ900401F0001

**Dimensions** 

**Product Net Width:** 

69.9 mm

**Product Net Height:** 

106.9 mm

Product Net Depth / Length:

106.3 mm

**Product Net Weight:** 

0.52 kg

**Technical** 

Setting Range:

48 ... 60 A

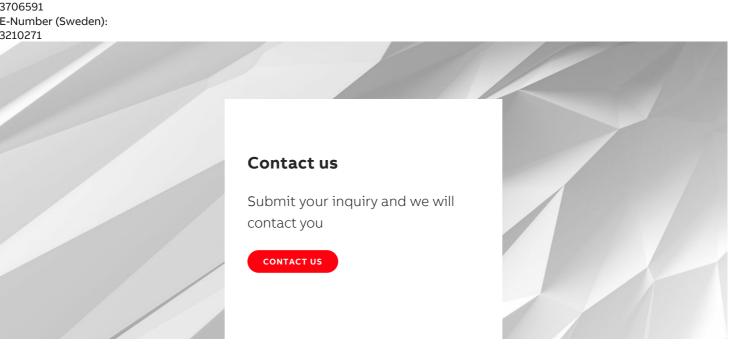
Rated Operational Voltage:

Auxiliary Circuit 600 V AC/DC

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Main Circuit 690 V AC
Main Circuit 440 V DC
Rated Operational Current (I<sub>e</sub>):
Rated Operational Current AC-3 (I e):
60 A
Rated Frequency (f):
Auxiliary Circuit 50 Hz
Auxiliary Circuit 60 Hz
Auxiliary Circuit DC
Main Circuit 50 Hz
Main Circuit 60 Hz
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:
Number of Auxiliary Contacts NO:
Number of Protected Poles:
Conventional Free-air Thermal Current (I th):
Auxiliary Circuit NC 6 A
Auxiliary Circuit NO 4 A
Rated Operational Current AC-15 (I e):
(120 V) NC 3 A
(120 V) NO 0.5 A
(240 V) NC 3 A
(240 V) NO 0.5 A
(400 V) NC 0.75 A
(400 V) NO 0.5 A
(500 V) NC 0.75 A
(500 V) NO 0.5 A
Rated Operational Current DC-13 (I e):
(125 V) NC 0.55 A
(125 V) NO 0.55 A
(24 V) NC 1.25 A
(24 V) NO 1.25 A
(250 V) NC 0.27 A
(250 V) NO 0.27 A
(500 V) NC 0.15 A
(500 V) NO 0.15 A
(60 V) NC 0.55 A
(60 V) NO 0.55 A
Degree of Protection:
Housing IP20
Main Circuit Terminals IP10
Pollution Degree:
Connecting Capacity Auxiliary Circuit:
Flexible with Ferrule 1/2x 0.75 ... 2.5 mm<sup>2</sup>
Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm<sup>2</sup>
Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm<sup>2</sup>
Flexible 1/2x 0.75 ... 1 mm<sup>2</sup>
Flexible 1/2x 1 ... 2.5 mm<sup>2</sup>
Rigid 1/2x 0.75 ... 4 mm<sup>2</sup>
Connecting Capacity Main Circuit:
Flexible with Ferrule 1/2x 6 ... 35 mm<sup>2</sup>
Flexible with Ferrule 1x 6 ... 50 mm<sup>2</sup>
Flexible with Insulated Ferrule 1/2x 6 ... 16 mm<sup>2</sup>
Flexible with Insulated Ferrule 1x 6 ... 50 mm<sup>2</sup>
Flexible 1/2x 6 ... 35 mm<sup>2</sup>
Flexible 1x 6 ... 50 mm<sup>2</sup>
Rigid 1/2x 6 ... 35 mm<sup>2</sup>
Rigid 1x 6 ... 50 mm<sup>2</sup>
Tightening Torque:
Auxiliary Circuit 1 ... 1.2 N·m
Main Circuit 6.0 ... 9.0 N⋅m
Wire Stripping Length:
Auxiliary Circuit 9 mm
Main Circuit 20 mm
Recommended Screw Driver:
Auxiliary Circuit Pozidriv 2
Main Circuit Hexagon 4
Mounting Position:
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Position 1 to 6 Power Loss: at Rated Operating Conditions per Pole 3 W Suitable For: AF80 AF96 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: 60 A Contact Rating UL/CSA: (NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300 Connecting Capacity Main Circuit UL/CSA: Flexible 1x 8-1 AWG Flexible 2x 8-3 AWG Stranded 1x 8-1 AWG Stranded 2x 8-3 AWG Connecting Capacity Auxiliary Circuit UL/CSA: Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG Tightening Torque UL/CSA: Auxiliary Circuit 9 ... 11 in·lb Main Circuit 50 ... 80 in lb Environmental Ambient Air Temperature: Operation -40 ... +70 °C Operation Compensated -40 ... +70 °C Storage -50 ... +80 °C Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: 2000 m Resistance to Shock acc. to IEC 60068-2-27: 11 ms Pulse 25g Resistance to Vibrations acc. to IEC 60068-2-6: 5q / 3 ... 150 Hz **RoHS Status:** Following EU Directive 2011/65/EU Certificates and Declarations (Document Number) **ABS Certificate:** 1SAA941003-0101 **ATEX Certificate:** 1SAA941006-3901 BV Certificate: 1SAA941001-0203 **CB** Certificate: 1SAA941016-2001 **CQC** Certificate: CQC2014010309689434 cUL Certificate: cUL\_E48139 Declaration of Conformity - CCC: 2020980309000292 Declaration of Conformity - CE: 1SAD938512-0187 **DNV GL Certificate:** 1SAA941004-0301 **EAC Certificate:** 1SAA941002-2701 **Environmental Information:** 1SAC200059H0009 **GOST Certificate:** 1SAA941001-2701 Instructions and Manuals: 2CDC106052M6803 Instructions and Manuals (Part 2): 2CDC106086M6801 LR Certificate:

1SAA941003-0501 RINA Certificate: RINA\_ELE098115XG **RMRS Certificate:** 1SAA941002-0701 **RoHS Information:** 1SAD938512-0187 Time-Current Characteristic Curve: 1SAZ900502F0002 **UL Certificate:** cUL\_E48139 **Container Information** Package Level 1 Units: 1 piece Package Level 1 Width: 97 mm Package Level 1 Height: 121 mm Package Level 1 Depth / Length: Package Level 1 Gross Weight: 0.62 kg Package Level 1 EAN: 4013614482991 Package Level 2 Units: 12 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: 7.826 kg Package Level 2 EAN: 4013614485435 Classifications Object Classification Code: 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): 3706591 E-Number (Sweden): 3210271



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