

General Information

Extended Product Type: TF96-68

Product ID: 1SAZ911201R1003 **EAN:** 4013614483004

Catalog Description: TF96-68 Thermal Overload Relay

Long Description: The TF96-68 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

Ordering

 Minimum Order Quantity:
 1 piece

 Customs Tariff Number:
 85364900

 EAN:
 4013614483004

Dimensions

Product Net Height: 106.9 mm

Product Net Depth: 106.3 mm

Product Net Weight: 0.52 kg

Product Net Width: 69.9 mm

Container Information

Package Level 1 Width: 97 mm 121 mm Package Level 1 Height: Package Level 1 Length: 97 mm Package Level 1 Gross Weight: 0.62 kg Package Level 2 Units: 12 piece 280 mm Package Level 2 Width: Package Level 2 Height: 210 mm Package Level 2 Length: 395 mm Package Level 2 Gross Weight: 7.826 kg 4013614485442 Package Level 2 EAN: Package Level 1 Units: 1 piece

Technical

Rated Operational Voltage: Auxiliary Circuit 600 V AC/DC

Main Circuit 690 V AC Main Circuit 440 V DC

Rated Operational Current (I_e): 68 A Rated Operational Current AC-3 (I_e): 68 A

Rated Frequency (f): Auxiliary Circuit 50 Hz

Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit 6 kV

Rated Impulse Withstand Voltage

(U_{imp}):

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 (Ith):

Auxiliary Circuit NC 6 A Auxiliary Circuit NO 4 A

Rated Operational Current AC-15

(l_e):

(120 V) NC 3 A (120 V) NO 0.75 A (240 V) NC 3 A

(240 V) NC 3 A (240 V) NO 0.75 A (400 V) NC 0.75 A

	(400 V) NO 0.75 A (500 V) NC 0.75 A (500 V) NO 0.75 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
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 with Insulated Ferrule 1x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1.5 mm ² Flexible 1/2x 0.75 1 mm ² Flexible 1/2x 1 2.5 mm ² Rigid 1/2x 0.75 4 mm ²
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 6 35 mm ² Flexible with Ferrule 1x 6 50 mm ² Flexible with Insulated Ferrule 1/2x 6 16 mm ² Flexible with Insulated Ferrule 1x 6 50 mm ² Flexible 1/2x 6 35 mm ² Flexible 1x 6 50 mm ² Rigid 1/2x 6 35 mm ² Rigid 1/2x 6 50 mm ²
Tightening Torque:	Auxiliary Circuit 1 1.5 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:	Position 1 to 6
Power Loss:	at Rated Operating Conditions per Pole 3.2 4.6 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
Setting Range:	57 68 A
Environmental	
Ambient Air Temperature	Yes
Compensation: Maximum Operating Altitude	2000 m
Permissible: Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 3 150 Hz
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Ambient Air Temperature:	Operation -25 +60 °C Operation Compensated -25 +60 °C Storage -50 +80 °C
Technical UL/CSA	
Ampere Rating UL/CSA:	68 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 13 in·lb

Main Circuit 53 ... 80 in·lb

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V AC

Certificates and Declarations (Document Number)

Data Sheet, Technical Information	,
(Part 2):	10/2500021 0000
Instructions and Manuals:	2CDC106052M6801
Instructions and Manuals (Part 2):	2CDC106086M6801
ABS Certificate:	1SAA941003-0101
ATEX Certificate:	1SAA941006-3901
BV Certificate:	1SAA941001-0202
CB Certificate:	1SAA941016-2001
CCC Certificate:	1SAA941013-3801
cUL Certificate:	cUL_E48139
Data Sheet, Technical Information:	2CDC106069D0201
Declaration of Conformity - CE:	1SAD938506-0187
DNV Certificate:	1SAA941004-0301
EAC Certificate:	1SAA941002-2701
GOST Certificate:	1SAA941001-2701
LR Certificate:	1SAA941003-0501
RINA Certificate:	RINA_ELE098115XG
RMRS Certificate:	1SAA941002-0701
RoHS Information:	1SAA941008-4401
UL Certificate:	UL_E48139

Classifications

ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
eClass:	7.0 27371501
UNSPSC:	39121521
Object Classification Code:	F



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GJL1311201R0001 GJL1313001R0011 GJL1313001R0101 GJL1317201R0001 AF09-30-01-11 AF460-30-11-68 1455 EF45-30 ERG297

HSC2-20 ISAM201904R1001 ISAM350000R1003 ISAZ721201R1009 ISAZ721201R1014 ISAZ721201R1025 ISFA611101R1002

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ISFA611216R1108 ISFA611285R1002 ISFA611702R6006 ISFA616162R1025 ISFA619100R3015 ISVR730020R0200 IPC4111

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