TF96-51



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

General Information

Extended Product Type: TF96-51

Product ID: 1SAZ911201R1001 **EAN**: 4013614482984

Catalog Description: TF96-51 Thermal Overload Relay

Long Description: The TF96-51 thermal overload relay is an economic electromechanical prot

ection device for the main circuit. It offers reliable and fast protection for m otors in the event of overload or phase failure. The device has trip class 1 0. Further features are the temperature compensation, trip contact (NC), si gnal contact (NO), automatic- or manual reset selectable, trip-free mechani sm, STOP function and a trip indication. The overload relays are connected directly to the block contactors. Single mounting kits are available as acc

essory.

Ordering

Minimum Order Quantity: 1 piece

Customs Tariff Number: 85364900

Dimensions

Product Net Width: 69.9 mm

Product Net Height: 106.9 mm

Product Net Depth: 106.3 mm

Product Net Weight: 0.52 kg

Popular Downloads

Data Sheet, Technical Information: 2CDC106069D0201

Data Sheet, Technical Information 1SAZ900502F0005

(Part 2):

Data Sheet, Technical Information 1SAZ800503

Instructions and Manuals (Part 2):

(Part 3): 1SAZ900506

Instructions and Manuals: 2CDC106052M6803

Dimension Diagram: 1SAZ900401F0001

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Technical

Setting Range: 40 ... 51 A

Rated Operational Voltage: Auxiliary Circuit 600 V AC/DC

Main Circuit 690 V AC Main Circuit 440 V DC

2CDC106086M6801

Rated Operational Current (I _e):	51 A
Rated Operational Current AC-3 (I _e):	51 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:	1
Number of Auxiliary Contacts NO:	1
Number of Protected Poles:	3
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 0.75 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 1x 6 50 mm ²
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:	Position 1 to 6
Power Loss:	at Rated Operating Conditions per Pole 2.6 4.3 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
Environmental	
Ambient Air Temperature:	Operation -40 +70 °C Operation Compensated -40 +70 °C Storage -50 +80 °C
Ambient Air Temperature Compensation:	Yes
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:	5g / 3 150 Hz
RoHS Status:	Following EU Directive 2011/65/EU
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	Following EU Directive 2011/65/EU Main Circuit 600 V AC

Contact Rating UL/CSA:	(NC:) B600
	(NC:) Q600
	(NO:) Q600
	(NO:) D300
Connecting Capacity Main Circuit	Flexible 1x 8-1 AWG
UL/CSA:	Flexible 2x 8-3 AWG
	Stranded 1x 8-1 AWG
	Stranded 2x 8-3 AWG
Connecting Capacity Auxiliary	Flexible 1/2x 18-12 AWG
Circuit UL/CSA:	Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA:	Auxiliary Circuit 9 11 in·lb
	Main Circuit 50 80 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941003-0101
ATEX Certificate:	1SAA941006-3901
BV Certificate:	1SAA941001-0202
CB Certificate:	1SAA941016-2001
CCC Certificate:	1SAA941013-3801
cUL Certificate:	cUL_E48139
Declaration of Conformity - CE:	1SAD938507-0187
DNV GL Certificate:	1SAA941004-0301
EAC Certificate:	1SAA941002-2701
GOST Certificate:	1SAA941001-2701
Instructions and Manuals:	2CDC106052M6803
LR Certificate:	1SAA941003-0501
RINA Certificate:	RINA_ELE098115XG
RMRS Certificate:	1SAA941002-0701
RoHS Information:	1SAD938507-0187
UL Certificate:	UL_E48139

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	97 mm
Package Level 1 Height:	121 mm
Package Level 1 Length:	97 mm
Package Level 1 Gross Weight:	0.62 kg
Package Level 1 EAN:	4013614482984
Package Level 2 Units:	12 piece
Package Level 2 Width:	280 mm

Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Gross Weight:	7.826 kg
Package Level 2 EAN:	4013614485428

Classifications

Object Classification Code:	F
E-nummer:	3210270
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:	7.0 27371501
UNSPSC:	39121521

