TF96-60



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

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 fo

r 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 compens ation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-fre e mechanism, STOP function and a trip indication. The overload relays are connected dire

ctly to the block contactors. Single mounting kits are available as accessory.

Additional Information

ABS Certificate:	1SAA941003-0101
ATEX Certificate:	1SAA941006-3901
Ambient Air Temperature:	Operation -25 +60 °C Operation Compensated -25 +60 °C Storage -50 +80 °C
Ambient Air Temperature Compensation:	Yes
Ampere Rating UL/CSA:	60 A
BV Certificate:	1SAA941001-0202
CB Certificate:	1SAA941016-2001
CCC Certificate:	1SAA941013-3801
Co-ordination with Short-Circuit Protective Devices - Type 1:	gG Type Fuses 160 A
Co-ordination with Short-Circuit Protective Devices - Type 2:	gG Type Fuses 160 A
Connecting Capacity Auxiliary Circuit UL/CSA:	Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG
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:	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 mm² Flexible with Ferrule 1x 6 50 mm² Flexible with Insulated Ferrule 1/2x 6 16 mm² Flexible with Insulated Ferrule 1x 6 50 mm² Flexible 1/2x 6 35 mm² Flexible 1x 6 50 mm² Rigid 1/2x 6 35 mm² Rigid 1x 6 50 mm²
Contact Rating UL/CSA:	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
Conventional Free-air Thermal Current (I _{th}):	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 4 A

Country of Origin:	China (CN)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	2CDC106069D0201
Data Sheet, Technical Information (Part 2):	1SAZ800502F0001
Declaration of Conformity - CE:	1SAD938506-0187
Degree of Protection:	Housing IP20
	Main Circuit Terminals IP10
Dimension Diagram:	1SAZ900401F0001
E-nummer:	3210271
EAC Certificate:	1SAA941002-2701
EAN:	4013614482991
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / General
EPLAN Function Definition:	NO contact / NO contact, 2 connection points / NO auxiliary contact 97_98 NC contact / NC contact, 2 connection points / NC auxiliary contact 95_96 Overload / Thermal release, 6 connection points / Thermal release (bimetal relay) 1_2_3_4_ 5_6
ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
GOST Certificate:	1SAA941001-2701
Instructions and Manuals:	2CDC106052M6803
Instructions and Manuals (Part 2):	2CDC106086M6801
Invoice Description:	TF96-60 Thermal Overload Relay Trip Class 10, 48-60A
LR Certificate:	1SAA941003-0501
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Minimum Order Quantity:	1 piece
Mounting Position:	Position 1 to 6
Mounting Type:	Mounted on Contactor
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	1
Number of Poles:	3
Number of Protected Poles:	3
Object Classification Code:	F
Package Level 1 EAN:	4013614482991
Package Level 1 Gross Weight:	0.62 kg
Package Level 1 Height:	121 mm
Package Level 1 Length:	97 mm
Package Level 1 Units: Package Level 1 Width:	1 piece 97 mm
Package Level 2 EAN:	4013614485435
Package Level 2 Gross Weight:	7.826 kg
Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Units:	12 piece
Package Level 2 Width:	280 mm
Phase Loss Sensitive:	Yes
Pollution Degree:	3
Power Loss:	at Rated Operating Conditions per Pole 3 4.7 W
Product Frame Size:	3.5

Product Main Type:	TF96
Product Name:	Thermal Overload Relay
Product Net Depth:	106.3 mm
Product Net Height:	106.9 mm
Product Net Weight:	0.52 kg
Product Net Width:	69.9 mm
RINA Certificate:	RINA_ELE098115XG
RMRS Certificate:	1SAA941002-0701
Rated Current (I _n):	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
Rated Operational Current (I _e):	60 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) 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 AC-3 (l _e):	60 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
Rated Operational Voltage:	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC Main Circuit 440 V DC
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 2 Main Circuit Hexagon 4
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 Date:	1310
RoHS Information:	1SAA941008-4401
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selling Unit of Measure:	piece
Setting Range:	48 60 A
Short-Circuit Protective Devices:	Auxiliary Circuit NC - gG Type Fuses 6 A Auxiliary Circuit NO - gG Type Fuses 4 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1

UL 60947-1 UL 60947-4-1

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	UL 60947-4-1
Suitable For:	AF80 AF96
Suitable for Product Class:	Block Contactors
Terminal Type:	Screw Terminals
Tightening Torque:	Auxiliary Circuit 1 1.2 N·m Main Circuit 6.0 9.0 N·m
Tightening Torque UL/CSA:	Auxiliary Circuit 9 11 in·lb Main Circuit 50 80 in·lb
Trip Class:	10
UL Certificate:	UL_E48139
UNSPSC:	39121521
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 20 mm
cUL Certificate:	cUL_E48139





eClass: