

English







TF96-78 Print to PDF

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General Information

Extended Product Type:

TF96-78

Product ID:

1SAZ911201R1004

EAN:

4013614483011

Catalog Description:

TF96-78 Thermal Overload Relay 65 ... 78 A

Long Description:

The TF96-78 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),... Show more

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Go To Section:
Ordering
Popular Downloads
Dimensions
Technical
Technical UL/CSA
Environmental
Material Compliance
ABB EcoSolutions
Certificates and Declarations
Container Information
External Classifications and Standards
Accessories
Ordering
Minimum Order Quantity:
1 piece
Customs Tariff Number: 85364900
03304300
Popular Downloads Data Sheet, Technical Information: Data Sheet, Thormal Overload Palay TESS, TESS
Data sheet - Thermal Overload Relay TF65, TF96
Instructions and Manuals: Operating instructions - Thermal overload relay TF96
Instructions and Manuals (Part 2):
Contactors and Overload relays guide
Ex Operating Instructions:
ATEX - Operating instructions for thermal overload relay TF96 for potentially explosive areas
Time-Current Characteristic Curve:
Tripping characteristic - Thermal overload relay TF96-78
CAD Dimensional Drawing:
Information - 2D and 3D files for CAD systems
Dimension Diagram:
<u>Dimension Drawing - TF96 Thermal Overload Relay.</u>
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:

65 ... 78 A

Rated Operational Voltage:

Auxiliary Circuit 600 V AC/DC

Main Circuit 690 V AC

Main Circuit 440 V DC

Rated Operational Current (Ie):

78 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 (Ui):

690 V

Number of Poles:

3P

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 (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:

3

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm²

Flexible 1/2x 0.75 ... 1 mm²

Flexible 1/2x 1 ... 2.5 mm²

Rigid 1/2x 0.75 ... 4 mm²

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

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:

1...6

Power Loss:

at Rated Operating Conditions per Pole 2.7 ... 3.8 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

IEC 60335-2-40 A2L

Technical UL/CSA

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V AC

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 53 ... 80 in·lb

Environmental

Ambient Air Temperature:

Operation -40 ... +70 °C Operation Compensated -40 ... +70 °C Storage -50 ... +80 °C

Ambient Air Temperature Compensation:

Ves

Maximum Operating Altitude Permissible:

2000 m

Resistance to Shock acc. to IEC 60068-2-27:

11 ms Pulse 25g

Resistance to Vibrations:

5g 3 ... 150 Hz

RoHS Status:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA:

Toxic Substances Control Act (TSCA) declaration for Contactors

Material Compliance

Conflict Minerals Reporting Template (CMRT):

CMRT - Conflict Minerals Reporting Template

REACH Declaration:

REACH - Letter of Confirmation for block contactors, contactor relays, installation contactors, mini contactors, mini contactor relays, therma overload relays, electronic overload relays and related accessories

RoHS Information:

RoHS II declaration for block contactors, installation contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories

WEEE B2C / B2B:

Business To Business

WEEE Category:

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

End Of Life Disassembling Instructions:

End of life instruction TF65 / TF96 / TF140

Environmental Information:

Product Environmental Information TF96 thermal overload relays

Environmental Product Declaration - EPD:

Environmental Product Declaration PEP TF65/TF96

Certificates and Declarations

A2L Certificate - IEC:

A2L Certificate - T16, TF42, TF65, TF96 series - Thermal Overload Relays

ABS Certificate:

ABS Certificate - TF65, TF96 - Thermal Overload Relays

ATEX Certificate:

AtexCertificate - TF96

BV Certificate:

BV Certificate - T16, TF42, TF65, TF96 - Thermal Overload Relays

CB Certificate:

CB Certificate - TF65, TF96 - Thermal Overload Relay

CQC Certificate:

CQC2014010309689434

Declaration of Conformity - CCC:

2020980309000292

Declaration of Conformity - CE:

EU Declaration of Conformity - TF42, TF65, TF96 - Thermal Overload Relay

Declaration of Conformity - UKCA:

UK Declaration of Conformity - TF42, TF65, TF96 - Thermal Overload Relay

DNV GL Certificate:

DNV GL Certificate - TF65, TF96, TF140DU, TF140DU-V1000

EAC Certificate:

1SAA941002-2701

IECEx Certificate:

IECEx Certificate - TF96 - Thermal Overload Relays

LR Certificate:

LR Certificate - TF65, TF96 - Thermal Overload Relays

RINA Certificate:

RINA ELEO98115XG

RMRS Certificate:

RMRS Certificate TF65, TF96, TF140DU, TF140DU-V1000

UL Certificate:

<u>UL Certificate of Compliance - TF65, TF96, DB65, DB96, DRS-x - Thermal Overload Relays</u>

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

97 mm

Package Level 1 Height:

121 mm

Package Level 1 Depth / Length:

97 mm

Package Level 1 Gross Weight:

0.62 kg

Package Level 1 EAN:

4013614483011

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:	
4013614485459	
External Classifications and Standards	
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	
ETIM 8:	
EC000106 - Thermal overload relay	
eClass:	
V11.0 : 27371501	
UNSPSC:	
39122330 IDEA Granular Category Code (IGCC):	
5366 >> Thermal overload relay	
E-Number (Finland):	
3706593	
E-Number (Norway):	
4116797	
E-Number (Sweden):	
3210273	
Accessories	
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Identifier	Description	Туре	Qty	Unit Of Measure	Actions
1SAZ901901R1001	DB96 Single Mounting Kit	DB96	1	piece	Ħ
1SAX101911R1001	DRS-F-01 Remote Reset Coil	DRS-F-01	1	piece	F
1SAX101911R1002	DRS-F-02 Remote Reset Coil	DRS-F-02	1	piece	(F)
1SAX101911R1003	DRS-F-03 Remote Reset Coil	DRS-F-03	1	piece	(F)
1SAX101911R1004	DRS-F-04 Remote Reset Coil	DRS-F-04	1	piece	(F)





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