

## General Information

Extended Product Type:	T16-7.6
Product ID:	1SAZ711201R1040
EAN:	4013614397943
Catalog Description:	T16-7.6 Thermal Overload Relay
Long Description:	The T16-7.6 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 mini contactors or block contactors. Single mounting kits are available as accessory.

## Categories

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

## Ordering

EAN:	4013614397943
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

## Dimensions

Product Net Width:	45 mm
Product Net Height:	76.7 mm
Product Net Depth:	53.5 mm
Product Net Weight:	0.1 kg

## Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	48 mm
Package Level 1 Height:	63 mm
Package Level 1 Length:	82 mm
Package Level 1 Gross Weight:	0.112 kg
Package Level 2 Units:	72 piece
Package Level 2 Width:	280 mm
Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Gross Weight:	8.45 kg
Package Level 2 EAN:	4013614440656

## Technical

Setting Range:	5.7 ... 7.6 A
Rated Operational Voltage:	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC
Rated Operational Current ( $I_e$ ):	7.6 A
Rated Operational Current AC-3 ( $I_e$ ):	7.6 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 6 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
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(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
<b>Degree of Protection:</b>	IP20
<b>Pollution Degree:</b>	3
<b>Connecting Capacity-Auxiliary Circuit:</b>	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>
<b>Connecting Capacity-Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm <sup>2</sup> Flexible 1/2x 0.75 ... 4 mm <sup>2</sup> Solid 1/2x 0.75 ... 1.5 mm <sup>2</sup> Solid 1/2x 1.5 ... 4 mm <sup>2</sup> Stranded 1/2x 1 ... 4 mm <sup>2</sup>
<b>Tightening Torque:</b>	Auxiliary Circuit 1 ... 1.5 N·m Main Circuit 1.1 ... 1.5 N·m
<b>Wire Stripping Length:</b>	Auxiliary Circuit 9 mm Main Circuit 12 mm
<b>Recommended Screw Driver:</b>	Main Circuit Pozidriv 2
<b>Mounting Position:</b>	Position 1 to 5
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 1.1 ... 2.0 W
<b>Suitable For:</b>	B6 BC6 B7 BC7 VB6 VBC6 VB7 VBC7 AS09 AS12 AS16
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
<b>Ambient Air Temperature Compensation:</b>	Yes
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 22g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	3g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC
<b>Ampere Rating UL/CSA:</b>	7.6 A
<b>Contact Rating UL/CSA:</b>	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
<b>Connecting Capacity Main Circuit</b>	Flexible 1/2x 18 ... 12 AWG

<b>UL/CSA:</b>	Stranded 1/2x 18 ... 10 AWG
<b>Connecting Capacity Auxiliary Circuit UL/CSA:</b>	Flexible 1/2x 18 ... 12 AWG Stranded 1/2x 18 ... 12 AWG
<b>Tightening Torque UL/CSA:</b>	Auxiliary Circuit 9 ... 13 in·lb Main Circuit 9 ... 13 in·lb

### Certificates and Declarations (Document Number)

<b>ABS Certificate:</b>	1SAA941001-0101
<b>BV Certificate:</b>	1SAA941001-0202
<b>CB Certificate:</b>	1SAA941008-2001
<b>CCC Certificate:</b>	1SAA941005-3802
<b>cUL Certificate:</b>	cUL_E48139
<b>Declaration of Conformity - CE:</b>	1SAD938505-0182
<b>DNV Certificate:</b>	1SAA941001-0301
<b>GL Certificate:</b>	1SAA941007-0401
<b>GOST Certificate:</b>	1SAA941000-2704
<b>LR Certificate:</b>	1SAA941001-0501
<b>RINA Certificate:</b>	1SAA941000-0801
<b>RMRS Certificate:</b>	1SAA941000-0703
<b>RoHS Information:</b>	1SAA941005-4402
<b>UL Certificate:</b>	UL_E48139

### Classifications

<b>Object Classification Code:</b>	F
<b>eClass:</b>	7.0 27371501
<b>E-nummer:</b>	3212068
<b>ETIM 4:</b>	EC000106 - Thermal overload relay
<b>ETIM 5:</b>	EC000106 - Thermal overload relay
<b>UNSPSC:</b>	39121521

