

TF42-1.7



General Information

Extended Product Type:	TF42-1.7
Product ID:	1SAZ721201R1028
EAN:	4013614398063
Catalog Description:	TF42-1.7 Thermal Overload Relay
Long Description:	The TF42-1.7 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

Accessories

Ordering

EAN:	4013614398063
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	45.0 mm
Product Net Height:	88.3 mm
Product Net Depth:	70.5 mm
Product Net Weight:	0.130 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	48.0 mm
Package Level 1 Height:	92.0 mm
Package Level 1 Length:	78.0 mm
Package Level 1 Gross Weight:	0.145 kg
Package Level 2 Units:	48 piece
Package Level 2 Width:	280.0 mm
Package Level 2 Height:	210 mm
Package Level 2 Length:	395.0 mm
Package Level 2 Gross Weight:	7.346 kg
Package Level 2 EAN:	4013614440106

Technical

Setting Range:	1.30 ... 1.70 A
Rated Operational Voltage:	Main Circuit 690 V AC Auxiliary Circuit 600 V AC/DC
Rated Operational Current (I_e):	1.70 A
Rated Operational Current AC-3 (I_e):	1.70 A
Rated Frequency (f):	Main Circuit 50 Hz Main Circuit 60 Hz Auxiliary Circuit DC Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 6 kV Auxiliary 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):	(120V) NC 3 A (240V) NC 3 A (400V) NC 0.75 A (500V) NC 0.75 A (120V) NO 0.75 A (240V) NO 0.75 A

	(400V) NO 0.75 A (500V) NO 0.75 A
Rated Operational Current DC-13 (I_e):	(24V) NC 1.25 A (60V) NC 0.55 A (125V) NC 0.55 A (250V) NC 0.27 A (500V) NC 0.15 A (24V) NO 1.25 A (60V) NO 0.55 A (125V) NO 0.55 A (250V) NO 0.27 A (500V) NO 0.15 A
Degree of Protection:	IP20
Pollution Degree:	3
Connecting Capacity-Auxiliary Circuit:	Rigid 1/2x 0.75 ... 4 mm ² 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
Connecting Capacity-Main Circuit:	Rigid 1/2x 0.75 ... 4 mm ² Flexible with Ferrule 1/2x 0.75 ... 4 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm ² Flexible 1/2x 0.75 ... 4 mm ²
Tightening Torque:	Main Circuit 2.5 ... 2.7 N·m Auxiliary Circuit 1 ... 1.5 N·m
Wire Stripping Length:	Main Circuit 12 mm Auxiliary Circuit 9 mm
Recommended Screw Driver:	Pozidriv 2
Mounting Position:	Position 1 to 5
Power Loss:	Per Pole 1.1 ... 2.0 W
Suitable For:	AF09 AF12 AF16 AF26 AF30 AF38
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 -25 ... +60 °C Operation Compensated -25 ... +60 °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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	1.70 A
Contact Rating UL/CSA:	(NC:) B600 (NC:) Q600 (NO:) D300 (NO:) Q600
Connecting Capacity-Main Circuit UL/CSA:	Stranded 1/2x 18 ... 10 AWG Flexible 1/2x 18 ... 10 AWG
Connecting Capacity-Auxiliary Circuit UL/CSA:	Stranded 1/2x 18 ... 12 AWG Flexible 1/2x 18 ... 12 AWG
Tightening Torque UL/CSA:	Main Circuit 13 ... 22 in·lb Auxiliary Circuit 9 ... 13 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA941001-0101 ;
ATEX Certificate:	1SAA941001-3901 ;
BV Certificate:	1SAA941001-0201 ;

CB Certificate:	1SAA941009-2001;
CCC Certificate:	1SAA941002-3805;
cUL Certificate:	1SAA941001-1702;
cUR Certificate:	cUL_E48139;
Declaration of Conformity - CE:	1SAD938504-0181;
DNV Certificate:	1SAA941002-0301;
GL Certificate:	1SAA941007-0401;
GOST Certificate:	1SAA941001-2701;
LR Certificate:	1SAA941001-0501;
RINA Certificate:	1SAA941000-0801;
RMRS Certificate:	1SAA941000-0703;
RoHS Information:	1SAA941006-4402;
UL Certificate:	UL_E48139;

Classifications

Object Classification Code:	F
E-nummer:	3211963
ETIM 4.0:	EC000106 - Thermal overload relay
ETIM 5.0:	EC000106 - Thermal overload relay

