

General Information

Extended Product Type: TF65-67

Product ID: 1SAZ811201R1007 **EAN:** 4013614482977

Catalog Description: TF65-67 Thermal Overload Relay

Long Description: The TF65-67 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

Ordering

 Minimum Order Quantity:
 1 piece

 Customs Tariff Number:
 85364900

 EAN:
 4013614482977

Dimensions

Product Net Height: 101.4 mm

Product Net Depth: 106.9 mm

Product Net Weight: 0.382 kg

Product Net Width: 54.9 mm

Container Information

Package Level 1 Width: 123 mm 121 mm Package Level 1 Height: Package Level 1 Length: 82 mm Package Level 1 Gross Weight: 0.466 kg Package Level 2 Units: 12 piece 280 mm Package Level 2 Width: Package Level 2 Height: 210 mm Package Level 2 Length: 395 mm Package Level 2 Gross Weight: 5.978 kg 4013614485374 Package Level 2 EAN: Package Level 1 Units: 1 piece

Technical

Rated Operational Voltage: Auxiliary Circuit 600 V AC/DC

Main Circuit 690 V AC Main Circuit 440 V DC

Rated Operational Current (l_e): 67 A Rated Operational Current AC-3 (l_e): 67 A

Rated Frequency (f): Auxiliary Circuit 50 Hz
Auxiliary Circuit 60 Hz

Auxiliary Circuit 60 Hz
Auxiliary Circuit DC
Main Circuit 50 Hz
Main Circuit 60 Hz
Auxiliary Circuit 6 Id

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 (Ith):

Auxiliary Circuit NC 6 A Auxiliary Circuit NO 4 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) NO 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) NC 0.27 A (250 V) NC 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
Pollution Degree:	Main Circuit Terminals IP10 3
Connecting Capacity Auxiliary	Flexible with Ferrule 1/2x 0.75 2.5 mm ²
Circuit:	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 2.5 10 mm² Flexible with Ferrule 1x 2.5 35 mm² Flexible with Insulated Ferrule 1x 2.5 35 mm² Flexible with Insulated Ferrule 1/2x 2.5 10 mm² Flexible 1/2x 2.5 16 mm² Flexible 1x 2.5 35 mm² Rigid 1/2x 2.5 16 mm² Rigid 1x 2.5 35 mm²
Tightening Torque:	Auxiliary Circuit 1 1.2 N·m Main Circuit 4.0 4.5 N·m
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 17 mm
Recommended Screw Driver:	Auxiliary Circuit Pozidriv 2 Main Circuit Pozidriv 2
Mounting Position:	Position 1 to 6
Power Loss:	at Rated Operating Conditions per Pole 2.5 3.4 W
Suitable For:	AF40
	AF52 AF65
Standards:	· · · · · ·
Standards: Setting Range:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1
	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Setting Range: Environmental Ambient Air Temperature	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Setting Range: Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A
Setting Range: Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A
Setting Range: Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g
Setting Range: Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g
Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC 60068-2-6:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g 5g / 3 150 Hz
Setting Range: Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Status: Ambient Air Temperature:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g 5g / 3 150 Hz Following EU Directive 2002/95/EC August 18, 2005 and amendment Operation -25 +60 °C Operation Compensated -25 +60 °C
Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Status: Ambient Air Temperature:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g 5g / 3 150 Hz Following EU Directive 2002/95/EC August 18, 2005 and amendment Operation -25 +60 °C Operation Compensated -25 +60 °C
Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Status: Ambient Air Temperature: Technical UL/CSA Ampere Rating UL/CSA: Contact Rating UL/CSA:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-4-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g 5g / 3 150 Hz Following EU Directive 2002/95/EC August 18, 2005 and amendment Operation -25 +60 °C Operation Compensated -25 +60 °C Storage -50 +80 °C 67 A (NC:) B600 (NC:) Q600 (NC:) Q600 (NC:) Q600 (NC:) Q600 (NC:) D300
Environmental Ambient Air Temperature Compensation: Maximum Operating Altitude Permissible: Resistance to Shock acc. to IEC 60068-2-27: Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Status: Ambient Air Temperature: Technical UL/CSA Ampere Rating UL/CSA:	AF65 IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 57 67 A Yes 2000 m 11 ms Pulse 25g 5g / 3 150 Hz Following EU Directive 2002/95/EC August 18, 2005 and amendment Operation -25 +60 °C Operation Compensated -25 +60 °C Storage -50 +80 °C 67 A (NC:) B600 (NC:) Q600 (NC:) Q600 (NC:) Q600

Tightening Torque UL/CSA:

Auxiliary Circuit 9 ... 11 in·lb Main Circuit 35 ... 40 in·lb

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V AC

Certificates and Declarations (Document Number)

COTTITIONICO MITA DOCIMIANICITO (DE	
Data Sheet, Technical Information (Part 2):	1SAZ800502F0007
Instructions and Manuals:	2CDC106051M6803
Instructions and Manuals (Part 2):	2CDC106085M6801
ABS Certificate:	1SAA941003-0101
ATEX Certificate:	1SAA941005-3901
BV Certificate:	1SAA941001-0202
CB Certificate:	1SAA941015-2001
CCC Certificate:	1SAA941012-3801
cUL Certificate:	cUL_E48139
Data Sheet, Technical Information:	2CDC106069D0201
Declaration of Conformity - CE:	1SAD938506-0187
DNV Certificate:	1SAA941004-0301
EAC Certificate:	1SAA941002-2701
GOST Certificate:	1SAA941001-2701
LR Certificate:	1SAA941003-0501
RINA Certificate:	RINA_ELE098115XG
RMRS Certificate:	1SAA941002-0701
RoHS Information:	1SAA941008-4401
UL Certificate:	UL_E48139

Classifications

E-nummer:	3210269
ETIM 4:	EC000106 - Thermal overload relay
ETIM 5:	EC000106 - Thermal overload relay
ETIM 6:	EC000106 - Thermal overload relay
eClass:	7.0 27371501
UNSPSC:	39121521
Object Classification Code:	F

