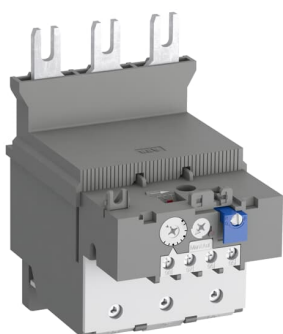


PRODUCT-DETAILS

# TF140DU-142-V1000

## TF140DU-142-V1000 Thermal Overload Relay



### General Information

Extended Product Type	TF140DU-142-V1000
Product ID	1SAZ431301R1004
EAN	4013614499548
Catalog Description	TF140DU-142-V1000 Thermal Overload Relay
Long Description	TF140DU-142-V1000 Thermal Overload Relay with ATEX

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

Instructions and Manuals	2CDC106050M6802
Instructions and Manuals (Part 2)	2CDC106082M6801
Dimension Diagram	1SAZ400404F0001

### Dimensions

Product Net Width	89 mm
Product Net Height	140 mm

Product Net Depth / Length	126 mm
Product Net Weight	0.82 kg

## Technical

Setting Range	110 ... 142 A
Rated Operational Voltage	Auxiliary Circuit 440 V DC Auxiliary Circuit 500 V AC Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current ( $I_e$ )	140 A
Rated Operational Current AC-3 ( $I_e$ )	140 A
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
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 ( $I_{th}$ )	Auxiliary Circuit NC 10 A Auxiliary Circuit NO 6 A
Rated Operational Current AC-15 ( $I_e$ )	(120 V) NC 3 A (120 V) NO 1.5 A (240 V) NC 3 A (240 V) NO 1.5 A (400 V) NC 1.9 A (400 V) NO 1 A (440 V) NC 1 A (440 V) NO 1 A (500 V) NC 1 A (500 V) NO 1 A
Rated Operational Current DC-13 ( $I_e$ )	(125 V) NC 0.25 A (125 V) NO 0.25 A (24 V) NC 1.25 A (24 V) NO 1.25 A (250 V) NC 0.12 A (250 V) NO 0.04 A (60 V) NC 0.25 A (60 V) NO 0.25 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 mm <sup>2</sup> Flexible 1/2x 0.75 ... 2.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 4 mm <sup>2</sup>
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 16 ... 70 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 16 ... 70 mm <sup>2</sup> Flexible 1/2x 16 ... 70 mm <sup>2</sup> Rigid 1/2x 16 ... 70 mm <sup>2</sup>
Tightening Torque	Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 8 ... 10 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 25 mm

Recommended Screw Driver	Auxiliary Circuit Pozidriv 2 Main Circuit Hexagon 4
Suitable For	AF116 AF140
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Ampere Rating UL/CSA	142 A
Contact Rating UL/CSA	(NC:) B600 (NO:) C300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 6-2/0 AWG Stranded 1/2x 6-2/0 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-14 AWG Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 12 in-lb

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Operation Compensated -25 ... +55 °C Storage -40 ... +70 °C
Ambient Air Temperature Compensation	Yes
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 12g
RoHS Status	Following EU Directive 2011/65/EU

## Certificates and Declarations (Document Number)

ABS Certificate	1SAA941004-0101
ATEX Certificate	1SAA941003-3901
BG Certificate	1SAA941012-2001
BV Certificate	1SAA941003-0201
CQC Certificate	CQC2016010309922935
cUL Certificate	cUL_E48139
Declaration of Conformity - CCC	2020980304001320
Declaration of Conformity - CE	1SAD938507-0192
DNV GL Certificate	1SAA941004-0301
EAC Certificate	1SAA941002-2702
Environmental Information	1SAC200090H0009
IECEX Certificate	1SAA941004-4001
Instructions and Manuals	2CDC106050M6802
Instructions and Manuals (Part 2)	2CDC106082M6801
LR Certificate	1SAA941004-0501
RINA Certificate	RINA_ELE098115XG

RMRS Certificate	1SAA941002-0701
RoHS Information	1SAD938503-0192
UL Certificate	UL_E48139

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	165 mm
Package Level 1 Height	133 mm
Package Level 1 Depth / Length	151 mm
Package Level 1 Gross Weight	0.945 kg
Package Level 1 EAN	4013614499548
Package Level 2 Units	4 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	8.786 kg
Package Level 2 EAN	4013614503740

## Classifications

ETIM 5	EC000106 - Thermal overload relay
ETIM 6	EC000106 - Thermal overload relay
ETIM 7	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39121520
IDEA Granular Category Code (IGCC)	5364 >> Overload relay

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SFA616162R1014	KPR3-101L Reset push button	KPR3-101L	1	piece

## Categories

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

