



 PRODUCT-DETAILS

TF140DU-135-V1000

TF140DU-135-V1000 Thermal Overload Relay 100 ... 135 A



General Information

Extended Product Type	TF140DU-135-V1000
Product ID	1SAZ431301R1003
EAN	4013614499531
Catalog Description	TF140DU-135-V1000 Thermal Overload Relay 100 ... 135 A

Long Description	<p>The TF140DU-135-V1000 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 10A and are ATEX certified. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP- and Test function and a trip indication. The overload relays are connected directly to the block contactors.</p>
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Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC106061D0201
Instructions and Manuals	2CDC106050M6802
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC106082M6801
CAD Dimensional Drawing	2CDC001079B0201
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	100 ... 135 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)	135 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	3P
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 1.2 A (400 V) NC 0.75 A (400 V) NO 0.37 A (440 V) NC 0.75 A (440 V) NO 0.37 A (500 V) NC 0.3 A (500 V) NO 0.25 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 ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 16 ... 70 mm ² Flexible with Insulated Ferrule 1/2x 16 ... 70 mm ² Flexible 1/2x 16 ... 70 mm ² Rigid 1/2x 16 ... 70 mm ²
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
Mounting Position	any
Power Loss	at Rated Operating Conditions per Pole 2.3 W
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
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 Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill
End Of Life Disassembling Instructions	1SAC200334H0001
Environmental Information	1SAC200090H0009
Environmental Product Declaration - EPD	1SAC200274H0001

Certificates and Declarations

ABS Certificate	1SAA941004-0101
ATEX Certificate	1SAA941003-3901
BG Certificate	1SAA941012-2001
BV Certificate	1SAA941003-0201
CB Certificate	1SAA941012-2001
CCC Certificate	2024010304659821
CQC Certificate	CQC2016010309922935
Declaration of Conformity - CCC	2020980304001320
Declaration of Conformity - CE	1SAD101100-3508
DNV GL Certificate	1SAA941004-0301
EAC Certificate	1SAA941002-2702
IECEX Certificate	1SAA941004-4001
LR Certificate	1SAA941004-0501
RINA Certificate	RINA_ELE098115XG
RMRS Certificate	1SAA941002-0701
UL Certificate	E48139-20120831

Container Information

Package Level 1 Units	carton 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	4013614499531
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	4013614503733

External Classifications and Standards

ETIM 9	EC000106 - Thermal overload relay
ETIM 10	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39121520
IDEA Granular Category Code (IGCC)	5364 >> Overload relay
E-Number (Norway)	4116777

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

