



PRODUCT-DETAILS

TF42-4.2B

TF42-4.2B Thermal Overload Relay 3.1 ... 4.2 A



Generell informasjon

Utvidet produkttype	TF42-4.2B
Produkt-ID	1SAZ741201R1035
EAN	4013614517136
Katalogbeskrivelse	TF42-4.2B Thermal Overload Relay 3.1 ... 4.2 A
Lang beskrivelse	<p>The TF42-B thermal overload relays are economic electromechanical protection devices for the main circuit, complying with the latest railway rolling stock standards and allowing installation in passengers or driver cabins for trains frequently operating tunnels or undergrounds.</p> <p>They offer a reliable protection for motors in the event of overload or phase failure. The devices have trip class 10.</p> <p>The thermal overload relays are three pole relays with bimetal tripping elements. The motor current flows through the bimetal tripping elements and heats them directly and indirectly. In case of an overload (over current), the bimetal elements bent as a result of the heating. This leads to a release of the relay and a change of the contacts switching position (95-96 / 97-98).</p> <ul style="list-style-type: none"> – Manual or automatic reset selectable – Phase loss sensitive acc. to IEC/EN 60947-4-1 – TEST and STOP function – Trip indication on the front – Temperature compensation – Suitable for three- and single-phase applications – designed in accordance to the applicable parts of IEC 60077 standard – shocks and vibration withstand conforming to IEC 61373 (category 1, class B) – usable according to European fire and smoke safety standard EN 45545-2

Ordering

Minimum ordreantall	1 piece
Tolltariffnummer	85364900

Popular Downloads

Dataark, teknisk informasjon	2CDC106023D0201
Instruksjoner og bruksanvisninger	2CDC106022M6802
Instruksjoner og bruksanvisninger (del 2)	1SAC200017M0002
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Produktets nettobredde	45 mm
Produktets netto høyde	88.3 mm
Produktets netto dybde/lengde	70.5 mm
Produktets nettovekt	0.13 kg

Technical

Setting Range	3.1 ... 4.2 A
Nominell driftsspennning	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC
Nominell driftsstrøm (I_e)	4.2 A
Nominell frekvens (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
Antall stenger	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 6 A Auxiliary Circuit NO 4 A Main Circuit 0 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
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) 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
Beskyttelsesgrad	IP20
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	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 Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit	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 Rigid 1/2x 0.75 ... 4 mm ²
Tiltrekningsmoment	Auxiliary Circuit 1 ... 1.2 N·m Main Circuit 2.5 ... 2.7 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver	Main Circuit Pozidriv 2
Power Loss	at Rated Operating Conditions per Pole 1.1 ... 2.0 W
Passer til	AF09ZB AF09B AF12ZB AF12B AF16ZB AF16B AF26ZB AF26B AF30ZB AF30B AF38ZB

AF38B

Standarder

IEC/EN 60947-1
 IEC/EN 60947-4-1
 IEC/EN 60947-5-1
 UL 60947-1
 UL 60947-4-1
 IEC 60335-2-40 A2L

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 9 ... 11 in·lb Main Circuit 13 ... 22 in·lb

Environmental

Omgivelseslufttemperatur	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	Ja
Maksimalt tillatte driftshøyde	2000 m
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B
Motstand overfor støt iht. til IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations	5g 3 ... 150 Hz
RoHS-status	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-informasjon	2CMT2021-006277
WEEE B2C/B2B	Business To Business
WEEE-kategori	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

End Of Life Disassembling Instructions	1SAC200429H0001
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Miljøinformasjon	1SAC200057H0009
Environmental Product Declaration - EPD	1SAC200373H0001

Certificates and Declarations

A2L Certificate – IEC	1SAA941000-4601
CCC Certificate	2024010304658956
CQC Certificate	CQC2011010309464423
Declaration of Conformity - CCC	2020980304001788
Samsvarserklæring - CE	1SAD101100-3505
Declaration of Conformity - UKCA	1SAD201100-3505
UL-sertifikat	E48139-20090126

Container Information

Pakkenivå 1 enheter	carton 1 piece
Pakkenivå 1 bredde	48 mm
Pakkenivå 1 høyde	92 mm
Pakkenivå 1 dybde/lengde	78 mm
Pakkenivå 1 bruttovekt	0.145 kg
Pakkenivå 1 EAN	4013614517136
Pakkenivå 2 enheter	carton 48 piece
Pakkenivå 2 bredde	280 mm
Pakkenivå 2 høyde	210 mm
Pakkenivå 2 dybde/lengde	395 mm
Pakkenivå 2 bruttovekt	7.346 kg
Pakkenivå 2 EAN	4013614517518

External Classifications and Standards

Objektklassifiseringskode	F
ETIM 5	EC000106 - Thermal overload relay
ETIM 6	EC000106 - Thermal overload relay
ETIM 7	EC000106 - Thermal overload relay
ETIM 8	EC000106 - Thermal overload relay
e-klasse	V11.0 : 27371501
UNSPSC	39121520
IDEA-granulærkategorikode (IGCC)	5364 >> Overload relay

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAZ701902R0001	DB42 Single Mounting Kit	DB42	1	pièce

Kategorier

Lavspenningsprodukter → Startapparater → Kontaktorer → Termiske overlastvern TOL

