

PRODUCT-DETAILS

MS132-10T

MS132-10T Circuit Breaker for Primary Transformer Protection 6.3 ... 10 A



General Information

Extended Product Type	MS132-10T
Product ID	1SAM340000R1010
EAN	4013614485008
Catalog Description	MS132-10T Circuit Breaker for Primary Transformer Protection 6.3 ... 10 A

Long Description

The circuit breaker for transformer protection MS132-10T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of $I_e = 10$ A. It allows fuse-less protection against overload and short-circuit. The short-circuit current setting is fixed to 20 times the rated operational current to handle the high inrush current generated by transformers. The device allows manually connect and disconnect the transformer from the mains thanks of its built-in disconnection function. The circuit breaker for transformer protection offers a rated service short-circuit breaking capacity of $I_{cs} = 100$ kA at 400 VAC and a trip class 10. Further features are temperature compensation, trip-free mechanism, rotary handle with a clear switch position indication and short circuit trip indicator. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, power in-feed blocks and terminal spacers are available as accessory.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010

Popular Downloads

Data Sheet, Technical Information	2CDC131058D0201
Instructions and Manuals	2CDC131057M6801

Instructions and Manuals (Part 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM300535F0010
I ² t Characteristic	1SAM300517F0001
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAM300402F0001

Dimensions

Product Net Width	45 mm
Product Net Height	97.8 mm
Product Net Depth / Length	86.05 mm
Product Net Weight	0.265 kg

Technical

Rated Service Short- Circuit Breaking Capacity (I _{cs})	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 30 kA
Rated Ultimate Short- Circuit Breaking Capacity (I _{cu})	(400 V AC) 100 kA
Rated Instantaneous Short-Circuit Current Setting (I ₁)	200 A
Setting Range	6.3 ... 10 A
Rated Operational Voltage	Main Circuit 690 V AC
Rated Operational Current (I _e)	10 A
Rated Frequency (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 6 kV
Rated Insulation Voltage (U _i)	690 V
Power Loss	at Rated Operating Conditions per Pole 0.7 ... 1.7 W
Number of Poles	3
Conventional Free-air Thermal Current (I _{th})	Main Circuit 10 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP10
Pollution Degree	3
Electrical Durability	50000 cycle
Mechanical Durability	100000 cycle
Terminal Type	Screw Terminals
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Tightening Torque	Main Circuit 0.8 ... 1.2 N·m
Wire Stripping Length	Main Circuit 9 mm
Recommended Screw Driver	Pozidriv 2 M3.5
Mounting Position	1 ... 6
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Minimum Mounting Distance	Electrical Conductive Board, Vertical 75 mm Other Device Same Type, Horizontal 9 mm Other Device Same Type, Vertical 150 mm
Actuator Type	Rotary Handle
Contact Position	ON / OFF / TRIP

Indication

Standards	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1
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Technical UL/CSA

Short-Circuit Current Rating (SCCR)	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC) 65 kA Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 18 kA
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Horsepower Rating UL/CSA	(120 V AC) Single Phase 0.5 Hp (220 ... 240 V AC) Single Phase 1.5 Hp
Full Load Amps Motor Use	(120 V AC) Single Phase 9.8 A (220 ... 240 V AC) Single Phase 10 A
Locked Rotor Amps	(120 V AC) Single Phase 58.8 A (220 ... 240 V AC) Single Phase 58.8 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG
Tightening Torque UL/CSA	Main Circuit 10 ... 12 in-lb

Environmental

Ambient Air Temperature	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °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 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations (Document Number)

CQC Certificate	CQC2010010307387700
Declaration of Conformity - CCC	2020980307003526
Declaration of Conformity - CE	1SAD101100-3404
Declaration of Conformity - UKCA	1SAD201100-3404
Environmental Information	1SAC200049H0009
I _{pt} Characteristic	1SAM300517F0001
Instructions and Manuals	2CDC131057M6801
Instructions and Manuals (Part 2)	2CDC131060M0202
KC Certificate	1SAA963002-1502
REACH Declaration	1SAA963005-4502
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAA963006-4502
Time-Current Characteristic Curve	1SAM300535F0010
UL Certificate	E137861-20090225

Container Information
