

PRODUCT-DETAILS

# MS132-0.4T

## MS132-0.4T Circuit Breaker for Primary Transformer Protection 0.25 ... 0.40 A



### General Information

Extended Product Type	MS132-0.4T
Product ID	1SAM340000R1003
EAN	4013614484933
Catalog Description	MS132-0.4T Circuit Breaker for Primary Transformer Protection 0.25 ... 0.40 A

### Long Description

The circuit breaker for transformer protection MS132-0.4T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of  $I_e = 0.4$  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	1SAM300535F0103
I <sup>2</sup> t Characteristic	1SAM300517F0001
CAD Dimensional Drawing	2CDC001079B0201
<b>Dimension Diagram</b>	<b>1SAM300402F0001</b>

## Dimensions

Product Net Width	45 mm
Product Net Height	90 mm
Product Net Depth / Length	86.75 mm
Product Net Weight	0.215 kg

## Technical

Rated Service Short- Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 100 kA (400 V AC) 100 kA
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	(400 V AC) 100 kA
Rated Instantaneous Short-Circuit Current Setting (I <sub>n</sub> )	8 A
Setting Range	0.25 ... 0.40 A
Rated Operational Voltage	Main Circuit 690 V AC
Rated Operational Current (I <sub>e</sub> )	0.4 A
Rated Frequency (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	Main Circuit 6 kV
Rated Insulation Voltage (U <sub>i</sub> )	690 V
Power Loss	at Rated Operating Conditions per Pole 0.6 ... 1.5 W
Number of Poles	3
Conventional Free-air Thermal Current (I <sub>th</sub> )	Main Circuit 0.4 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 <sup>2</sup> Flexible with Insulated 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 1 ... 4 mm <sup>2</sup>
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**


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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) 47 kA
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Full Load Amps Motor Use	(120 V AC) Single Phase 0.4 A (220 ... 240 V AC) Single Phase 0.4 A
Locked Rotor Amps	(120 V AC) Single Phase 2.4 A (220 ... 240 V AC) Single Phase 2.4 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

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**Environmental**


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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

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**Certificates and Declarations (Document Number)**


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CQC Certificate	CQC2010010307387700
Declaration of Conformity - CCC	2020980307003526
Declaration of Conformity - CE	1SAD101100-3404
Declaration of Conformity - UKCA	1SAD201100-3404
Environmental Information	1SAC200049H0009
I <sub>p</sub> t 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	1SAM300535F0103
UL Certificate	E137861-20090225

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**Container Information**


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Package Level 1 Units	box 1 piece
Package Level 1 Width	92 mm