

# MS132-16T



## MS132-16T Circuit Breaker for Primary Transformer Protection

### General Information

Extended Product Type	MS132-16T
Product ID	1SAM340000R1011
EAN	4013614485022
Catalog Description	MS132-16T Circuit Breaker for Primary Transformer Protection
Long Description	<p>The circuit breaker for transformer protection MS132-16T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of <math>I_e = 16</math> 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 <math>I_{cs} = 100</math> 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 are available as accessory.</p>

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010

### Popular Downloads

Data Sheet, Technical Information	2CDC131058D0201
Data Sheet, Technical Information (Part 2)	1SAM300535F0011
Instructions and Manuals	2CDC131057M6801
Instructions and Manuals (Part 2)	2CDC131085M0201
Dimension Diagram	1SAM300402F0002

### Dimensions

Product Net Width	45 mm
Product Net Height	97.8 mm
Product Net Depth / Length	86.05 mm
Product Net Weight	0.31 kg

### Technical

Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )	(230 V AC) 100 kA (400 V AC) 100 kA
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Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ )	(400 V AC) 100 kA
Rated Instantaneous Short-Circuit Current Setting ( $I_i$ )	320 A
Setting Range	10 ... 16 A
Rated Operational Voltage	Main Circuit 690 V AC
Rated Operational Current ( $I_e$ )	16 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 0.9 ... 2.3 W
Number of Poles	3
Conventional Free-air Thermal Current ( $I_{th}$ )	Main Circuit 16 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 ... 6 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 2.5 ... 6 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 2.5 ... 6 mm <sup>2</sup>
Tightening Torque	Main Circuit 2 N·m
Wire Stripping Length	Main Circuit 10 mm
Recommended Screw Driver	M4 Pozidriv 2
Mounting Position	Position 1 to 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 Indication	ON / OFF / TRIP
Standards	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1

## Environmental

Ambient Air Temperature	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °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

## Technical UL/CSA

Horsepower Rating UL/CSA	(120 V AC) Single Phase 1 Hp (220 ... 240 V AC) Single Phase 2 Hp
Full Load Amps Motor Use	(120 V AC) Single Phase 16 A (220 ... 240 V AC) Single Phase 12 A
Locked Rotor Amps	(120 V AC) Single Phase 96 A (220 ... 240 V AC) Single Phase 96 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 AWG
Tightening Torque UL/CSA	Main Circuit 16 in-lb

## Certificates and Declarations (Document Number)

CCC Certificate	1SAA963001-3805
cULus Certificate	cUL_E137861
cUR Certificate	cUL_E137861
Declaration of Conformity - CE	1SAD938503-0188
GOST Certificate	1SAA937000-2703
Instructions and Manuals	2CDC131057M6801
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938503-0188

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	92 mm
Package Level 1 Depth / Length	102 mm
Package Level 1 Height	50 mm
Package Level 1 Gross Weight	0.325 kg
Package Level 1 EAN	4013614485022
Package Level 2 Units	40 piece
Package Level 2 Width	280 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Height	210 mm
Package Level 2 Gross Weight	13.386 kg
Package Level 2 EAN	4013614487224

## Classifications

Object Classification Code	F
ETIM 4	EC000228 - Power circuit-breaker for trafo/generator/installation prot.
ETIM 5	EC000228 - Power circuit-breaker for trafo/generator/installation prot.
ETIM 6	EC000228 - Power circuit-breaker for trafo/generator/installation prot.
ETIM 7	EC000228 - Power circuit-breaker for trafo/generator/installation protection
eClass	7.0 27370409
UNSPSC	39121521

## Categories

Low Voltage Products and Systems → Circuit Breakers → Manual Motor Starters

Low Voltage Products and Systems → Control Products → Manual Motor Starters → Manual Motor Starters

