

MS132-1.0T



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

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General Information

Extended Product Type:	MS132-1.0T
Product ID:	1SAM340000R1005
EAN:	4013614484957
Catalog Description:	MS132-1.0T Circuit Breaker for Primary Transformer Protection
Long Description:	<p>The circuit breaker for transformer protection MS132-1.0T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of $I_e = 1.0$ A. It allows fuseless 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 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):	1SAM300535F0005
Instructions and Manuals:	2CDC131057M6801
Dimension Diagram:	1SAM300402F0001

Dimensions

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

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 100 kA (400 V AC) 100 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(400 V AC) 100 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	20 A
Setting Range:	0.63 ... 1 A
Rated Operational Voltage:	Main Circuit 690 V AC
Rated Operational Current (I_e):	1 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 0.6 ... 1.5 W
Number of Poles:	3
Conventional Free-air Thermal Current (I_{th}):	1 A Main Circuit 1 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:	Position 1 to 6
Actuator Type:	Rotary Handle
Contact Position Indication:	ON / OFF / TRIP
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
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

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

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 Length: 95 mm

Package Level 1 Height: 50 mm

Package Level 1 Gross Weight: 0.23 kg

Package Level 1 EAN: 4013614484957

Package Level 2 Units: 40 piece

Package Level 2 Width: 280 mm

Package Level 2 Length: 395 mm

Package Level 2 Height: 210 mm

Package Level 2 Gross Weight: 9.586 kg

Package Level 2 EAN: 4013614487156

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

