

# MS132-12T



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

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

## General Information

<b>Extended Product Type:</b>	MS132-12T
<b>Product ID:</b>	1SAM340000R1012
<b>EAN:</b>	4013614485015
<b>Catalog Description:</b>	MS132-12T Circuit Breaker for Primary Transformer Protection
<b>Long Description:</b>	The circuit breaker for transformer protection MS132-12T is a compact 45 mm width device designed to protect control transformers on the primary side. This device has a rated operational current of $I_e = 12$ 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 are available as accessory.

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CDC131058D0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAM300535F0012
<b>Dimension Diagram:</b>	1SAM300402F0002

## Dimensions

<b>Product Net Width:</b>	45 mm
<b>Product Net Height:</b>	97.8 mm
<b>Product Net Depth:</b>	86.05 mm
<b>Product Net Weight:</b>	0.31 kg

## Technical

<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(400 V AC) 100 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	240 A
<b>Setting Range:</b>	8 ... 12 A
<b>Rated Operational Voltage:</b>	Main Circuit 690 V AC
<b>Rated Operational Current (<math>I_e</math>):</b>	12 A
<b>Rated Frequency (f):</b>	Main Circuit 50 Hz Main Circuit 60 Hz
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	Main Circuit 6 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	690 V
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 0.9 ... 2.0 W
<b>Number of Poles:</b>	3
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	12 A Main Circuit 12 A
<b>Degree of Protection:</b>	Housing IP20

<b>Protection Class:</b>	IP00
<b>Terminal Type:</b>	Main Circuit Terminals IP10
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	50000 cycle
<b>Mechanical Durability:</b>	100000 cycle
<b>Connecting Capacity Main Circuit:</b>	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>
<b>Tightening Torque:</b>	Main Circuit 2 N·m
<b>Wire Stripping Length:</b>	Main Circuit 10 mm
<b>Recommended Screw Driver:</b>	M4 Pozidriv 2
<b>Mounting Position:</b>	Position 1 to 6
<b>Actuator Type:</b>	Rotary Handle
<b>Contact Position Indication:</b>	ON / OFF / TRIP
<b>Mounting on DIN Rail:</b>	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
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1

#### Environmental

<b>Ambient Air Temperature:</b>	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Storage -50 ... +80 °C
<b>Ambient Air Temperature Compensation:</b>	Yes
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 25g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2011/65/EU

#### Technical UL/CSA

<b>Connecting Capacity Main Circuit UL/CSA:</b>	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 AWG
<b>Tightening Torque UL/CSA:</b>	Main Circuit 16 in·lb

#### Certificates and Declarations (Document Number)

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

#### Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 1 Length:</b>	102 mm

Package Level 1 Length:	102 mm
Package Level 1 Height:	50 mm
Package Level 1 Gross Weight:	0.325 kg
Package Level 1 EAN:	4013614485015
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:	13.386 kg
Package Level 2 EAN:	4013614487217

## 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.
eClass:	7.0 27370409
UNSPSC:	39121521

