

PRODUCT-DETAILS

# MS132-20LC

## MS132-20LC Lamp Circuit Breaker 16 ... 20 A



### General Information

|                       |   |
|-----------------------|---|
| Extended Product Type | MS132-20LC                                  |
| Product ID            | 1SAM350300R1013                             |
| EAN                   | 4013614560729                               |
| Catalog Description   | MS132-20LC Lamp Circuit Breaker 16 ... 20 A |

#### Long Description

The MS132-20LC lamp circuit breaker is a compact 45 mm width device with a rated operational current of  $I_e = 20.0$  A. This device is used to manually switch on and off lamp loads (typically LED lamps or loads with similar characteristics) and to protect them reliably and without the need for a fuse from short-circuits, overload and phase failures. The lamp circuit breaker offers a rated service short-circuit breaking capacity  $I_{cs} = 50$  kA at 400 VAC. Further features are the build-in disconnect function, temperature compensation, trip-free mechanism and a rotary handle with a clear switch position indication. The lamp circuit breaker is suitable for three- and single-phase applications. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and terminal spacers are available as accessory.

### Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85362010 |

### Popular Downloads

|                  |                 |
|------------------|-----------------|
| Instructions and | 1SAC200070M0001 |
|------------------|-----------------|

## Manuals

|                                   |                 |
|-----------------------------------|-----------------|
| Time-Current Characteristic Curve | 1SAM300565F0013 |
| I <sup>2</sup> t Characteristic   | 1SAM300567F0001 |
| Cut-off Current Characteristic    | 1SAM300568F0001 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 45 mm    |
| Product Net Height         | 97.8 mm  |
| Product Net Depth / Length | 86.55 mm |
| Product Net Weight         | 0.31 kg  |

## Technical

|   |  |
|---|--|
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )    | (230 V AC) 50 kA<br>(400 V AC) 50 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )   | (230 V AC) 50 kA<br>(400 V AC) 50 kA   |
| Rated Instantaneous Short-Circuit Current Setting (I <sub>i</sub> ) | 150 A  |
| Setting Range   | 16 ... 20 A  |
| Rated Operational Voltage   | Main Circuit 400 V AC  |
| Rated Operational Current (I <sub>e</sub> )                         | 20 A   |
| Rated Frequency (f)   | Main Circuit 50 Hz<br>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 1.5 ... 2.3 W   |
| Number of Poles   | 3  |
| Conventional Free-air Thermal Current (I <sub>th</sub> )            | Main Circuit 20 A  |
| Degree of Protection  | Housing IP20<br>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><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 2.5 ... 6 mm <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 mm <sup>2</sup><br>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  | Pozidriv 2   |
| Mounting Position   | 1 ... 6  |

|                             |   |
|-----------------------------|---|
| Mounting on DIN Rail        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  |
| Minimum Mounting Distance   | Electrical Conductive Board, Horizontal - Up to 400 V 0 mm<br>Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm<br>Electrical Conductive Board, Vertical 75 mm<br>Other Device Same Type, Horizontal 0 mm<br>Other Device Same Type, Vertical 150 mm |
| Actuator Type               | Rotary Handle   |
| Contact Position Indication | ON / OFF / TRIP   |
| Standards                   | IEC/EN 60947-1<br>IEC/EN 60947-2  |

## Environmental

|  |  |
|--|--|
| Ambient Air Temperature                        | Operation -25 ... +70 °C<br>Operation Compensated -25 ... +60 °C<br>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

|                                  |                 |
|----------------------------------|-----------------|
| Cut-off Current Characteristic   | 1SAM300568F0001 |
| Declaration of Conformity - CE   | 1SAD101100-3406 |
| Declaration of Conformity - UKCA | 1SAD201100-3406 |
| EAC Certificate                  | 1SAA963005-2702 |
| I <sup>2</sup> t Characteristic  | 1SAM300567F0001 |

## Container Information

|                                |                 |
|--------------------------------|-----------------|
| Package Level 1 Units          | box 1 piece     |
| Package Level 1 Width          | 50 mm           |
| Package Level 1 Depth / Length | 102 mm          |
| Package Level 1 Height         | 92 mm           |
| Package Level 1 Gross Weight   | 0.325 kg        |
| Package Level 1 EAN            | 4013614561634   |
| Package Level 2 Units          | carton 40 piece |
| Package Level 2 Width          | 50 mm           |
| Package Level 2 Depth / Length | 102 mm          |
| Package Level 2 Height         | 92 mm           |
| Package Level 2 Gross Weight   | 13.386 kg       |
| Package Level 2 EAN            | 4013614560743   |

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**Classifications**

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|                                    |   |
|------------------------------------|---|
| Object Classification Code         | F   |
| ETIM 5                             | EC000074 - Motor protective circuit-breaker             |
| ETIM 6                             | EC000074 - Motor protection circuit-breaker             |
| ETIM 7                             | EC000074 - Motor protection circuit-breaker             |
| ETIM 8                             | EC000074 - Motor protection circuit-breaker             |
| eClass                             | V11.0 : 27370401  |
| UNSPSC                             | 39121521  |
| IDEA Granular Category Code (IGCC) | 4845 >> 3 Pole Motor Circuit Protector Circuit Breakers |

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**Categories**

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Low Voltage Products and Systems → Control Products → Manual Motor Starters → Manual Motor Starters for Special Use

