

PRODUCT-DETAILS

# S804C-C50

## S804C-C50 High Performance MCB



### General Information

|                       |                                |
|-----------------------|--------------------------------|
| Extended Product Type | S804C-C50                      |
| Product ID            | 2CCS884001R0504                |
| EAN                   | 7612271213275                  |
| Catalog Description   | S804C-C50 High Performance MCB |

#### Long Description

The S804C-C50 is a 4-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 50 A. It is a current limiting device with a maximum breaking capacity of 25kA at 240/415V. It can be used for voltages up to 254/440V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S804C-C50 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S804C-C50 more comfortable. Due to the fast arc extinction of S804C-C50 your application will be secured.

### Technical

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Standards                       | IEC/EN 60947-2<br>IEC/EN 60898-1<br>UL 1077 |
| Number of Poles                 | 4                                           |
| Number of Protected Poles       | 4                                           |
| Tripping Characteristic         | C                                           |
| Rated Current (I <sub>n</sub> ) | 50 A                                        |
| Rated Operational Voltage       | 254/440 V AC<br>500 V DC                    |

|                                                                   |                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Rated Voltage (U <sub>r</sub> )                                   | 440 V                                                                                                                |
| Power Loss                                                        | 17.2 W<br>at Rated Operating Conditions per Pole 4.3 W                                                               |
| Rated Insulation Voltage (U <sub>i</sub> )                        | 500 V AC                                                                                                             |
| Operational Voltage                                               | Maximum 230/400 V AC<br>Minimum 12 V AC                                                                              |
| Rated Frequency (f)                                               | 50...60 Hz                                                                                                           |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (400 V) 15 kA<br>(230 V) 15 kA                                                                                       |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (240 / 415 V AC) 25 kA<br>(254 / 440 V AC) 15 kA<br>(500 V DC) 10 kA                                                 |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (240 / 415 V AC) 18 kA<br>(254 / 440 V AC) 10 kA<br>(125 V DC) 10 kA                                                 |
| Energy Limiting Class                                             | 3                                                                                                                    |
| Overvoltage Category                                              | IV                                                                                                                   |
| Pollution Degree                                                  | 3                                                                                                                    |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )               | 8 kV                                                                                                                 |
| Housing Material                                                  | Insulation group I, RAL 7035                                                                                         |
| Actuator Marking                                                  | I / O                                                                                                                |
| Contact Position Indication                                       | ON / OFF / TRIP                                                                                                      |
| Degree of Protection                                              | IP20                                                                                                                 |
| Remarks                                                           | Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw |
| Electrical Endurance                                              | 6000 cycle<br>4000 cycle                                                                                             |
| Terminal Type                                                     | Screw Terminals                                                                                                      |
| Connecting Capacity                                               | Rigid 0 ... 50 mm <sup>2</sup><br>Flexible 0 ... 70 mm <sup>2</sup>                                                  |
| Tightening Torque                                                 | 3.5 N·m<br>31 in·lb                                                                                                  |
| Recommended Screw Driver                                          | Pozidriv 2                                                                                                           |
| 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       |
| Mounting Position                                                 | Any                                                                                                                  |
| Built-In Depth (t <sub>2</sub> )                                  | 82.5 mm                                                                                                              |

## Environmental

|                                                |                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25...60 °C                                                                                                                                                                                                                                                                   |
| Reference Ambient Air Temperature              | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C                                                                                                                                                                                                                                     |
| Resistance to Shock acc. to IEC 60068-2-27     | 5 g<br>30 ms                                                                                                                                                                                                                                                                            |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x 1e                                                                                                                                                                                                                               |
| Environmental Conditions                       | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle<br>Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96%<br>Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100%<br>Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C<br>Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C |
| RoHS Status                                    | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                       |

## Technical UL/CSA

Interrupting Rating acc.  
to UL1077

(480Y / 277 V AC) 10 kA  
(500 V DC) 10 kA

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## Dimensions

|                               |         |
|-------------------------------|---------|
| Product Net Width             | 106 mm  |
| Product Net Depth /<br>Length | 82.5 mm |
| Product Net Height            | 95 mm   |
| Product Net Weight            | 980 g   |

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## Container Information

|                                   |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 105 mm        |
| Package Level 1 Depth /<br>Length | 111 mm        |
| Package Level 1 Height            | 99 mm         |
| Package Level 1 Gross<br>Weight   | 1010 g        |
| Package Level 1 EAN               | 7612271213275 |

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## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85362020 |

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## Certificates and Declarations (Document Number)

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Declaration of<br>Conformity - CE | 2CCC413016D0601                    |
| Environmental<br>Information      | 2CCY413207D0203                    |
| Instructions and<br>Manuals       | 2CCC413016M0008                    |
| RoHS Information                  | 2CCC413016D0601<br>9AKK107680A3903 |

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## Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CCC413003C0208 |
| Instructions and<br>Manuals          | 2CCC413016M0008 |
| Dimension Diagram                    | 2CCC413003C0201 |

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## Classifications

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Object Classification<br>Code | F                                          |
| ETIM 6                        | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7                        | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 8                        | EC000042 - Miniature circuit breaker (MCB) |

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs

