

PRODUCT-DETAILS

## **S802S-C100** S802S-C100 High Performance MCB



General Information	
Extended Product Type	\$802S-C100
Product ID	2CCS862001R0824
EAN	7612271200701
Catalog Description	S802S-C100 High Performance MCB
Long Description	The S802S-C100 is a 2-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 100 A. It is a current limiting device with a maximum breaking capacity of 50kA at 240/415V. It can be used for voltages up to 400/690V 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 S802S-C100 complies with IEC/EN 60947- 2 and allows the use for industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S802S-C100 more comfortable. Due to the fast arc extinction of S802S-C100 your application will be secured.

Technical	
Standards	IEC/EN 60947-2
Number of Poles	2
Number of Protected Poles	2
Tripping Characteristic	C
Rated Current (In)	100 A
Rated Operational Voltage	400/690 V AC 250 V DC
Power Loss	16 W at Rated Operating Conditions per Pole 8 W

Rated Frequency (f)       5060 Hz         Rated Short-Circuit       (400 V) 25 KA         Capacity (I <sub>cn</sub> )       (230 V) 25 KA         Rated Ultimate Short-       (240 / 415 V AC) 50 LA         Circuit Breaking       (254 / 440 V AC) 30 KA         Capacity (I <sub>cu</sub> )       (260 V 25 KA         Rated Service Short-       (240 / 415 V AC) 50 LA         Circuit Breaking       (254 / 440 V AC) 35 KA         Capacity (I <sub>cu</sub> )       (260 / 400 V AC) 45 LA         Capacity (I <sub>cu</sub> )       (264 / 440 V AC) 35 KA         Capacity (I <sub>cu</sub> )       (264 / 40 V AC) 35 KA         Capacity (I <sub>cu</sub> )       (264 / 40 V AC) 35 KA         Capacity (I <sub>cu</sub> )       (264 / 40 V AC) 35 KA         Capacity (I <sub>cu</sub> )       (400 / 690 V AC) 4 LA         Capacity (I <sub>cu</sub> )       (125 V DC) 30 KA         Energy Limiting Class       3         Overvoltage Category       (V         Pollution Degree       3         Rated Impulse       8 kV         Withstand Voltage (U <sub>Imp</sub> )       1/ O         Duosing Material       Insulation group I, RAL 7035         Actuator Marking       1/ O         Degree of Protection       IP20         Remarks       Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage	Rated Insulation Voltage (Ui)	690 V AC
Capacity (Ien) (230 V) 25 kA Rated Ultimate Short- (240 / 415 V KC) 30 kA Capacity (Ieu) (240 / 415 V KC) 30 kA Capacity (Ieu) (240 / 415 V KC) 30 kA Rated Service Short- (240 / 415 V KC) 40 kA Capacity (Ieu) (25 V DC) 30 kA Rated Service Short- (240 / 415 V KC) 40 kA Circuit Breaking (254 / 440 V KC) 45 kA Capacity (Ies) (400 / 690 V AC) 45 kA Capacity (Ies) (400 / 690 V AC) 15 kA Capacity (Ies) (25 V DC) 30 kA Energy Limiting Class 3 Overvoltage Category IV VIDPollution Degree 3 Rated Impulse 8 VV Withstand Voltage (Uimp ) VIDPOLITION DEGREE 8 Remarks 0 Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw Electrical Endurance 6 Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw Tightening Torque 3 S New 3	Rated Frequency (f)	5060 Hz
Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA (254 / 440 V AC) 30 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (240 / 415 V AC) 50 kA Rated Service Short- Circuit Breaking Capacity (I <sub>cu</sub> ) (254 / 440 V AC) 15 kA Capacity (I <sub>cu</sub> ) (125 V DC) 30 kA Rated Service Short- Circuit Breaking Connection from top and bottom Connecting with Clu only IP40 in enclosure with cover Cage terminal with captite screw Electrical Endurance Sorter Terminal Connecting Capacity Rigid 050 mm <sup>3</sup> Si hinb Recommended Screw Pozidriv 2 Tightening Torqu Tightening Torqu Tightening 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 Connecting Position Any	Rated Short-Circuit	(400 V) 25 kA
Circuit Breaking       (254 / 440 V AC) 30 LA         Capacity (I <sub>cu</sub> )       (400 / 690 V AC) 4.5 KA         (L25 V DC) 30 KA       (240 / 415 V AC) 40 LA         Rated Service Short-       (240 / 415 V AC) 40 LA         Circuit Breaking       (240 / 415 V AC) 40 LA         Circuit Breaking       (240 / 690 V AC) 4 LA         Circuit Breaking       (240 / 690 V AC) 4 LA         Circuit Breaking       (240 / 690 V AC) 4 LA         Lenergy Limiting Class       3         Overvoltage Category       0         Pollution Degree       3         Rated Impulse       8 kV         Withstand Voltage (Uimp)       1         Housing Material       Insulation group I, RAL 7035         Actuator Marking       0/ N OFF / TRIP         Indication       1/ O         Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captite screw         Electrical Endurance       60000 cycle         Terminal Type       Screw Terminals         Connecting Capacity       Flexible 0 70 mm²         Tightening Torque       3.5 N m         Tightening Torque       3.5 N m         Tightening Torque       3.5 N m         Tightening Torque       3.5 N m <t< td=""><td>Capacity (I<sub>cn</sub>)</td><td>(230 V) 25 kA</td></t<>	Capacity (I <sub>cn</sub> )	(230 V) 25 kA
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(125 V DC) 30 kA         Energy Limiting Class       3         Overvoltage Category       IV         Pollution Degree       3         Rated Impulse       8 kV         Withstand Voltage (Uimp)       1         Housing Material       Insulation group I, RAL 7035         Actuator Marking       I/ V         Contact Position       0N / OFF / TRIP         Indication       1         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         Terminal Type       Screw Terminals         Connecting Capacity       Rigid 0 50 mm²         Tightening Torque       3.5 N m         Screw       Pozidriv 2         Driver       Pozidriv 2         Mounting on DIN Rail       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       Any		
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Contact Position       ON / OFF / TRIP         Indication       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         Terminal Type       Screw Terminals         Connecting Capacity       Rigid 0 50 mm²         Tightening Torque       3.5 N·m         Recommended Screw       Pozidriv 2         Driver       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       Any	Housing Material	Insulation group I, RAL 7035
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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         4000 cycle       4000 cycle         Terminal Type       Screw Terminals         Connecting Capacity       Rigid 0 50 mm²         Tightening Torque       3.5 N·m         Recommended Screw       Pozidriv 2         Driver       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       Any	Contact Position	ON / OFF / TRIP
Remarks       Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw         Electrical Endurance       6000 cycle         4000 cycle       4000 cycle         Terminal Type       Screw Terminals         Connecting Capacity       Rigid 0 50 mm²         Flexible 0 70 mm²       Flexible 0 70 mm²         Tightening Torque       3.5 N·m         Recommended Screw       Pozidriv 2         Driver       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       Any	Indication	
enclosure with cover Cage terminal with captive screw         Electrical Endurance       6000 cycle         4000 cycle       4000 cycle         Terminal Type       Screw Terminals         Connecting Capacity       Rigid 0 50 mm²         Flexible 0 70 mm²       Flexible 0 70 mm²         Tightening Torque       3.5 N·m         Recommended Screw       Pozidriv 2         Driver       TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715         Mounting Position       Any	Degree of Protection	IP20
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Flexible 0 70 mm²         Tightening Torque       3.5 N·m         Tightening Torque       315 N·m         Recommended Screw       Pozidriv 2         Driver       Policy 2         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       Any	Terminal Type	Screw Terminals
Flexible 0 70 mm²         Tightening Torque       3.5 N·m         Tightening Torque       315 N·m         Recommended Screw       Pozidriv 2         Driver       Policy 2         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       Any	Connecting Capacity	Rigid 0 50 mm²
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31 in-lb Recommended Screw Pozidriv 2 Driver 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 Mounting Position Any	Tightening Torgue	3.5 N·m
Driver 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 Mounting Position Any	5 5 1	31 in-lb
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TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting Position Any	Driver	
TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting Position Any	Mounting on DIN Rail	TH35-15 (35 x 15 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 -2560 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °C
Resistance to Vibrations acc. to IEC 60068-2-6	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le
Environmental Conditions	Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96% Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100% Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C 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.	(240 V AC) 30 kA
to UL1077	(480Y / 277 V AC) 14 kA
	(600Y / 347 V AC) 6 kA

Dimensions	
Product Net Width	54 mm
Product Net Depth / Length	82.5 mm
Product Net Height	95 mm
Product Net Weight	490 g

## **Container Information**

Package Level 1 Units	box 1 piece
Package Level 1 Width	105 mm
Package Level 1 Depth / Length	60 mm
Package Level 1 Height	99 mm
Package Level 1 Gross Weight	510 g
Package Level 1 EAN	7612271200701

1 piece
85362020
807157315

Certificates and Declarations (Document Number)	
Declaration of Conformity - CE	2CCC413016D0601
Environmental Information	2CCY413207D0203
Instructions and Manuals	2CCC413016M0008
RoHS Information	2CCC413016D0601 9AKK107680A3903

Popular Downloads	
Data Sheet, Technical Information	2CCC413003C0208
Instructions and Manuals	2CCC413016M0008
Dimension Diagram	2CCC413003C0201

Classifications	
Object Classification Code	F
ETIM 6	EC000042 - Miniature circuit breaker (MCB)
ETIM 7	EC000042 - Miniature circuit breaker (MCB)

## Categories

Low Voltage Products and Systems  $\rightarrow$  Modular DIN Rail Products  $\rightarrow$  High Performance Circuit Breakers HPCBs

