

S804N-C13

**PRODUCT-DETAILS** 

### S804N-C13

# S804N-C13 High Performance MCB



General Informatio	n
Extended Product Type	
Duradicat ID	

 Product ID
 2CCS894001R0134

 EAN
 7612271204655

Catalog Description S804N-C13 High Performance MCB

The S804N-C13 is a 4-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 6 A. It is a current limiting device with a maximum breaking capacity of 36kA 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 S804N-C13 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 S804N-C13 more comfortable. Due to the fast arc extinction of S804N-C13 your application will be secured.

Long Description

## Technical

Standards	IEC/EN 60947-2
	IEC/EN 60898-1
Number of Poles	4
Number of Protected	4
Poles	
Tripping Characteristic	C
Rated Current (I <sub>n</sub> )	13 A
Rated Operational	400/690 V AC
Voltage	375 V DC
Rated Voltage (U <sub>r</sub> )	230 / 400 V

### ### ### ### ### ### ### ### ### ##		8 W at Rated Operating Conditions per Pole 2 W
Department   Dep	Rated Insulation Voltage (U;)	690 V AC
ated Short-Circuit apacity (Icn) (400 V) 25 kA apacity (Icn) (230 V) 25 kA apacity (Icn) (230 V) 25 kA apacity (Icn) (240 / 415 V AC) 36 kA incruit Breaking (254 / 440 V AC) 20 kA apacity (Icu) (400 690 V AC) 20 kA ated Service Short-ircuit Breaking (240 / 415 V AC) 30 kA ated Service Short-ircuit Breaking (254 / 440 V AC) 15 kA apacity (Ics) (240 / 415 V AC) 30 kA apacity (Ics) (400 690 V AC) 31 kA apacity (Ics) (400 690 V AC) 31 kA apacity (Ics) (400 690 V AC) 31 kA apacity (Ics) (400 / 690 V AC) 31 kA apacity (Ics) (400	Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC
apacity (I <sub>cn</sub> )  ated Ultimate Short- ircuit Breaking	Rated Frequency (f)	5060 Hz
ircuit Breaking (254 / 440 V AC) 20 kA apacity (I <sub>cu</sub> ) (400 / 690 V AC) 4.5 kA apacity (I <sub>cu</sub> ) (400 / 690 V AC) 4.5 kA (500 V DC) 20 kA ated Service Short- ircuit Breaking (254 / 440 V AC) 15 kA apacity (I <sub>cs</sub> ) (400 / 690 V AC) 3 kA (125 V DC) 20 kA nergy Limiting Class (400 / 690 V AC) 3 kA (125 V DC) 20 kA nergy Limiting Class (125	Rated Short-Circuit Capacity (I <sub>cn</sub> )	(400 V) 25 kA (230 V) 25 kA
ircuit Breaking apacity (I <sub>CS</sub> ) (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20	Rated Ultimate Short- Circuit Breaking Capacity (I <sub>cu</sub> )	(240 / 415 V AC) 36 kA (254 / 440 V AC) 20 kA (400 / 690 V AC) 4.5 kA (500 V DC) 20 kA
vervoltage Category  follution Degree  ated Impulse ated Impulse ousing Material  ctuator Marking ontact Position dication egree of Protection emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance  lectrical Endurance  erminal Type onnecting Capacity  Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque  3 Server Terminals 4 Server	Rated Service Short- Circuit Breaking Capacity (I <sub>cs</sub> )	(240 / 415 V AC) 30 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 kA
ollution Degree  ated Impulse  ated Impulse ousing Material  ousing Material  ctuator Marking ontact Position dication  egree of Protection  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance  lectrical Endurance  forminal Type onnecting Capacity  Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque  3 sk V  8 kV  8 kV  8 kV  8 kV  1 / O  1	Energy Limiting Class	3
ated Impulse fithstand Voltage (Uimp  ousing Material Insulation group I, RAL 7035 ctuator Marking I/O ontact Position ON / OFF / TRIP idication egree of Protection IP20 emarks Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance I0000 cycle erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque 3.5 N·m² 31 in·lb	Overvoltage Category	IV
ousing Material Insulation group I, RAL 7035 ctuator Marking I/O ontact Position offication egree of Protection emarks Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance 10000 cycle erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque 3.5 N·m 3.1 in·lb	Pollution Degree	3
ctuator Marking I / O ontact Position ontact Position dication egree of Protection emarks Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance 10000 cycle erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² ightening Torque 3.5 N·m 31 in·lb	Rated Impulse Withstand Voltage (U <sub>imp</sub> )	8 kV
ontact Position dication  egree of Protection  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance  10000 cycle 10000 cycle 10000 cycle  erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque 3.5 N·m 3.1 in·lb	Housing Material	Insulation group I, RAL 7035
regree of Protection  egree of Protection  emarks  Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw lectrical Endurance  10000 cycle 10000 cycle 10000 cycle erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque 3.5 N·m 31 in·lb	Actuator Marking	1/0
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enclosure with cover Cage terminal with captive screw lectrical Endurance  10000 cycle 10000 cycle 10000 cycle erminal Type Screw Terminals onnecting Capacity Rigid 0 50 mm² Flexible 0 70 mm² sightening Torque 3.5 N·m 31 in·lb	Degree of Protection	IP20
10000 cycle erminal Type  Screw Terminals onnecting Capacity  Rigid 0 50 mm² Flexible 0 70 mm² ightening Torque  3.5 N·m 31 in·lb	Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
erminal Type  Screw Terminals  onnecting Capacity  Rigid 0 50 mm²  Flexible 0 70 mm²  ightening Torque  3.5 N·m  31 in·lb	Electrical Endurance	10000 cycle
onnecting Capacity  Rigid 0 50 mm²  Flexible 0 70 mm²  ightening Torque  3.5 N·m  31 in·lb		10000 cycle
Flexible 0 70 mm² ightening Torque 3.5 N·m 31 in·lb	Terminal Type	Screw Terminals
31 in-lb	Connecting Capacity	Rigid 0 50 mm² Flexible 0 70 mm²
ecommended Screw Pozidriv 2	Tightening Torque	3.5 N·m 31 in·lb
	Recommended Screw Driver	Pozidriv 2
	Mounting on DIN Rail	TH35-15 (35 $\times$ 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 $\times$ 7.5 mm Mounting Rail) acc. to IEC 60715
ounting Position Any	Mounting Position	Any
	Built-In Depth (t <sub>2</sub> )	82.5 mm
river    Iounting on DIN Rail	Electrical Endurance  Terminal Type Connecting Capacity  Tightening Torque  Recommended Screw Driver Mounting on DIN Rail  Mounting Position	enclosure with cover Cage terminal with captive so  10000 c  10000 c  Screw Termin  Rigid 0 50 n Flexible 0 70 n  3.5 I  31 i  Pozidr  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60
		82.5 mm

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 60068-2-20 16 hour @ 55°C

Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C

Following EU Directive 2011/65/EU

#### **Dimensions**

acc. to IEC 60068-2-6

Environmental Conditions

**RoHS Status** 

Product Net Width	106 mm
Product Net Depth / Length	82.5 mm
Product Net Height	95 mm
Product Net Weight	980 g

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	105 mm
Package Level 1 Depth / Length	111 mm
Package Level 1 Height	99 mm
Package Level 1 Gross Weight	1010 g
Package Level 1 EAN	7612271204655

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85362020

Certificates and Declarations (Document Nu	mber)
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)
ETIM 8	EC000042 - Miniature circuit breaker (MCB)

#### Categories

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

