



Electric Automation
Automation specialists

Reference: S801C-B50
Code: 2CCS881001R0505

S801C-B50 High Performance Circuit
Breaker

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The S801C-B50 is a 1-pole High Performance Circuit breaker with B-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 S801C-B50 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 S801C-B50 more comfortable. Due to the fast arc extinction of S801C-B50 your application will be secured.

Ordering

EAN:	7612271213206
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362020

Dimensions

Product Net Width:	27 mm
Product Net Depth:	82.5 mm
Product Net Height:	95 mm
Product Net Weight:	0.25 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	105 mm
Package Level 1 Length:	33 mm
Package Level 1 Height:	99 mm
Package Level 1 Gross Weight:	0.27 kg
Package Level 1 EAN:	7612271213206

Environmental

Ambient Air Temperature:	Operation -25 ... +60 °C Storage -40 ... +70 °C
Resistance to Shock acc. to IEC 60068-2-27:	5 g 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 Ie
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 2002/95/EC August 18, 2005 and amendment

Technical

Standards:	IEC/EN 60947-2 IEC/EN 60898-1
Number of Poles:	1
Tripping Characteristic:	B
Rated Current (I_n):	50 A
Rated Operational Voltage:	254/440 V AC 125 V DC
Power Loss:	at Rated Operating Conditions per Pole 4.3 W
Rated Insulation Voltage (U_i):	500 V AC
Operational Voltage:	Maximum 230/400 V AC Minimum 12 V AC
Rated Frequency (f):	50 / 60 Hz
Rated Short-Circuit Capacity (I_{cn}):	(230 / 400 V AC) 15 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(240 / 415 V AC) 25 kA (254 / 440 V AC) 15 kA (125 V DC) 10 kA

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(240 / 415 V AC) 18 kA (254 / 440 V AC) 10 kA (125 V DC) 10 kA
Energy Limiting Class:	3
Overvoltage Category:	IV
Pollution Degree:	3
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Housing Material:	Insulation group I, RAL 7035
Contact Position Indication:	ON / OFF / TRIP
Degree of Protection:	acc. to IEC 60529 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
Mechanical Endurance:	4000 cycle
Terminal Type:	Screw Terminals
Connecting Capacity:	Stranded 1 ... 50 mm ² Flexible 1 ...70 mm ²
Tightening Torque:	3.5 N·m 31 in·lb
Recommended Screw Driver:	Pozidriv 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
Mounting Position:	Any

Certificates and Declarations (Document Number)

Declaration of Conformity - CE:	2CCC413016D060
RoHS Information:	2CCC413008D0204

Classifications

ETIM 4:	EC000042 - Miniature circuit breaker (MCB)
ETIM 5:	EC000042 - Miniature circuit breaker (MCB)
Object Classification Code:	F