



**Electric Automation**  
Automation specialists

Reference: S801C-K80  
Code: 2CCS881001R0627

S801C-K80 High Performance Circuit  
Breaker

[Buy it at Electric Automation Network](#)



The S801C-K80 is a 1-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 80 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-K80 complies with IEC/EN 60898-1 and 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 S801C-K80 more comfortable. Due to the fast arc extinction of S801C-K80 your application will be secured.

### Ordering

EAN:	7612271213640
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:	7612271213640

## 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:	K
Rated Current ( $I_n$ ):	80 A
Rated Operational Voltage:	254/440 V AC 125 V DC
Power Loss:	at Rated Operating Conditions per Pole 6.4 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 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 <sub>imp</sub> ):	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 <sup>2</sup> Flexible 1 ... 70 mm <sup>2</sup>
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