PRODUCT-DETAILS

S802N-B80

S802N-B80 High Performance MCB

General Information

Extended Product Type	S802N-B80
Product ID	2CCS892001R0805
EAN	7612271204013
Catalog Description	S802N-B80 High Performance MCB
Long Description	The S802N-B80 is a 2-pole High Performance Circuit breaker with B-characteristic, with cage terminal and a rated current of 80 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 S802N-B80 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 S802N-B80 more comfortable. Due to the fast arc extinction of S802N-B80 your application will be secured.

Technical

Standards	IEC/EN 60947-2 IEC/EN 60898-1
Number of Poles	2
Number of Protected Poles	2
Tripping Characteristic	B
Rated Current (I_n)	80 A
Rated Operational Voltage	400/690 V AC 250 V DC
Power Loss	12.8 W

	at Rated Operating Conditions per Pole 6.4 W
Rated Insulation Voltage (U_i)	690 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})	(400 V) 25 kA (230 V) 25 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(240 / 415 V AC) 36 kA (254 / 440 V AC) 20 kA (400 / 690 V AC) 4.5 kA (250 V DC) 20 kA
Rated Service Short-Circuit Breaking Capacity (I_{cs})	(240 / 415 V AC) 30 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 3 kA (125 V DC) 20 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
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
	4000 cycle
Terminal Type	Screw Terminals
Connecting Capacity	Rigid 0 ... 50 mm² Flexible 0 ... 70 mm²
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
Built-In Depth (t_2)	82.5 mm

Environmental

Ambient Air Temperature	Operation -25...60 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °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 2011/65/EU

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	7612271204013

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362020

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 → Modular DIN Rail Products → High Performance Circuit Breakers HPCBs