



SBN190

1-pole, 100A Modular Switch

Technical characteristics

Architecture

Number of poles	1
Neutral position	Without neutral
Type of pole	1P

Electric current

Rated current	100 A
Breaking capacity 400 V AC23A	1,692 A
Rated conditional short-circuit current I _{cc} with gl-gG fuses	1.20 kA
Acceptable current rating AC21 category A	100 A
Acceptable current rating AC21 category B	100 A
Acceptable current rating AC22 category A	100 A
Acceptable current rating AC22 category B	100 A
Rated short-circuit making capacity I _{cm} under 240 V AC according to IEC 60947-3	1.69 kA
Rated short-time withstand current I _{cw} 1s IEC 60947	1.20 kA

Installation, mounting

Nominal tightening torque	3.60 - 3.60 Nm
Type of bottom connection for modular devices	Screw terminal

Voltage

Rated operational voltage U _e	230 - 230 V
Type voltage supply	AC
Rated insulation voltage U _i	440 V
Rated impulse withstand voltage U _{imp}	6,000 V

Capacity

Number of modules	1
-------------------	---

Safety

Ingress Protection (IP) class	IP20
-------------------------------	------

Frequency

Frequency	50 - 60 Hz
-----------	------------

Dimensions

Height	83 mm
Width	17.50 mm

Depth

68 mm

Equipment

Number of NO contacts	1
Number of NC contacts	0

Use conditions

Operating temperature	-20 - 70 °C
Storage/transport temperature	-40 - 80 °C

Connection

Cross-section flexible conductor	6 - 35 mm ²
Cross-section rigid conductor	6 - 50 mm ²

Endurance

Number of mechanical operations	40,000
Electrical durability at nominal load in AC21 in operating cycles	2,500
Electrical durability at nominal load in AC22 in operating cycles	2,500

Power

Total power loss under IN	5.50 W
Power loss per pole at In	5.50 W

Connectivity

Down connection alignment for modular devices	Aligned terminal
Top connection alignment for modular devices	Aligned terminal