



SBN180

1-pole, 80A Modular Switch

Technical Features

Architecture

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

Electric current

Rated current	80 A
Rated conditional short-circuit current I_{cc} with gl-gG fuses	0.96 kA
Acceptable current rating AC21 category A	80 A
Acceptable current rating AC21 category B	80 A
Acceptable current rating AC22 category A	80 A
Acceptable current rating AC22 category B	80 A
Rated short-circuit making capacity I_{cm} under 240 V AC according to IEC 60947-3	1.35 kA
Rated short-time withstand current I_{cw} 1s IEC 60947	0.96 kA

Installation, mounting

Nominal tightening torque	3.60 - 3.60 Nm
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Voltage

Rated operational voltage U_e	230 - 230 V
Type voltage supply	AC
Rated insulation voltage U_i	440 V

Installation, mounting

Type of bottom connection for modular devices	Screw terminal
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Voltage

Rated impulse withstand voltage U_{imp}	6000 V
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Capacity

Number of modules	1
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Safety

Ingress Protection (IP) class	IP20
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Frequency

Frequency	50 - 60 Hz
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Dimensions

Height	83 mm
Width	17.50 mm
Depth	68 mm
Dimensions	83 x 17.50 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	40000
Electrical durability at nominal load in AC21 in operating cycles	2500
Electrical durability at nominal load in AC22 in operating cycles	2500

Power	
Total power loss under IN	2.70 W
Power loss per pole at In	2.70 W
Connectivity	
Down connection alignment for modular devices	Aligned terminal
Top connection alignment for modular devices	Aligned terminal
Sustainability	
REACH-SVHC free	Yes
RoHS conform	Yes