



SBN180

1-pole, 80A Modular Switch

Technical properties

Architecture

| | |
|------------------|-----------------|
| Type of order | Break switch |
| Neutral position | without neutral |
| Number of poles | 1 P |
| Type of pole | 1 P |

Configuration

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

Main electrical features

| | |
|------------------------------|----------|
| Rated operational voltage Ue | 230 V |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 440 V |
| Type of voltage input 1 | AC |
| Rated impulse withstand voltage | 6000 V |

Electric current

| | |
|--|---------|
| Rated operational current in AC21 category B | 80 A |
| Acceptable current rating with AC22 category A | 80 A |
| Rated current | 80 A |
| Rated short-time withstand current 1s | 0.96 kA |
| Thermal rated current outside of housings | 80 A |
| Rated operational current in AC21 category A | 80 A |
| Acceptable current rating with AC22 category B | 80 A |

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 68 mm |
| Height of installed product | 83 mm |
| Width of installed product | 17.5 mm |

Frequency

| | |
|-----------|-------------|
| Frequency | 50 to 60 Hz |
|-----------|-------------|

Power

| | |
|---------------------------|-------|
| Total power loss under IN | 2.7 W |
| Power loss per pole at In | 2.7 W |

Endurance

| | |
|---|-------|
| Electrical durability at nominal load in AC21 in operating cycles | 2500 |
| Electrical durability at nominal load in AC22 in operating cycles | 2500 |
| Number of mechanical operations | 40000 |

Installation, mounting

| | |
|-------------------|-------|
| Tightening torque | 3,6Nm |
|-------------------|-------|

Connection

| | |
|---|-----------------------|
| Connection cross-sect. flexible conductor | 6 / 35mm ² |
| Connection cross-sect. rigid cable | 6 / 50mm ² |
| Cage clamp position | in line |
| Type of connection | with screw |

Equipment

| | |
|--------------------------|---|
| Quantity of NC contacts | 0 |
| Quantity of NO contacts | 1 |
| Quantity of INV contacts | 0 |

Standards

| | |
|---------------|-------------|
| Standard text | IEC 60947-3 |
|---------------|-------------|

Safety

| | |
|---------------|-----|
| REACH conform | Yes |
| RoHS conform | Yes |
| Halogen free | No |

Use conditions

| | |
|--|-------------|
| Operating temperature | -20...50 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Altitude | 2000 m |
| Storage/transport temperature | -40...80 °C |