



SBN290

**2-pole, 100A Modular Switch**

**Technical Features**

**Architecture**

|                 |    |
|-----------------|----|
| Number of poles | 2  |
| Type of pole    | 2P |

**Electric current**

|   |         |
|---|---------|
| Rated current   | 100 A   |
| Rated conditional short-circuit current I <sub>cc</sub> with gI-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 <sub>cm</sub> under 415 V AC according to IEC 60947-3 | 1.69 kA |
| Rated short-time withstand current I <sub>cw</sub> 1s IEC 60947                             | 1.20 kA |

**Installation, mounting**

|                           |                |
|---------------------------|----------------|
| Nominal tightening torque | 3.60 - 3.60 Nm |
|---------------------------|----------------|

**Voltage**

|  |             |
|--|-------------|
| Rated operational voltage U <sub>e</sub> | 400 - 400 V |
| Type voltage supply                      | AC          |
| Rated insulation voltage U <sub>i</sub>  | 440 V       |

**Installation, mounting**

|   |                |
|---|----------------|
| Type of bottom connection for modular devices | Screw terminal |
|---|----------------|

**Voltage**

|  |        |
|--|--------|
| Rated impulse withstand voltage U <sub>imp</sub> | 6000 V |
|--|--------|

**Capacity**

|                   |   |
|-------------------|---|
| Number of modules | 2 |
|-------------------|---|

**Safety**

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

**Frequency**

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

**Dimensions**

|            |            |
|------------|------------|
| Height     | 83 mm      |
| Width      | 35 mm      |
| Depth      | 68 mm      |
| Dimensions | 83 x 35 mm |

**Equipment**

|                       |   |
|-----------------------|---|
| Number of NO contacts | 2 |
| 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 <sup>2</sup> |
| Cross-section rigid conductor    | 6 - 50 mm <sup>2</sup> |

**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  |

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**Power**

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 11 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 |

**Sustainability**

|                 |     |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform    | Yes |