# Product Datasheet
SPB140D



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**Surge Protection Device 1P T2 TNC Uc 275V In 20kA Imax 40kA**

## Technical Features

### Capacity

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

### Voltage

| | |
|---|---|
| Continuous operating voltage Uc | 275 V |
| Voltage protection level Up | 1.35 kV |
| Mode of protection design | Voltage-limiting type |
| Type voltage supply | AC |
| Reference test voltage Utest AC | 255 V |
| Overvoltage category according to IEC 60947-1 | 3 |

### Electric current

| | |
|---|---|
| Max. overcurrent protection device, parallel connection (fuse) | 125 A |
| Max. overcurrent protection device, series connection (fuse) | 80 A |
| Max. discharge current (Imax) | 40 kA |
| Nominal discharge current In 8 - 20 µs N-PE | 20 kA |
| Short-circuit current rating (Isccr) | 25 kA |

### Dimensions

| | |
|---|---|
| Height | 89.80 mm |
| Width | 17.6 mm |
| Depth | 65.7 mm |
| Stripping length | 16 mm |

### Safety

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

### Use conditions

| | |
|---|---|
| Operating temperature | -40 - 80 °C |
| Air humidity protection | 5 - 95% |
| Storage/transport temperature | -40 - 80 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Max. altitude | 2000 m |

### Materials

| | |
|---|---|
| Product colour | Light grey |
| RAL code | 7035 |
| Material | Polyamide (PA)<br>Thermoplastic |

### Network configuration

| | |
|---|---|
| Network type | TN<br>TT |
| Network TN | Yes |
| Network TN-C | No |
| Network DC | No |
| Network IT | No |
| Network TT | Yes |
| Network TN-C-S | No |
| Network TN-S | No |

### Equipment

| | |
|---|---|
| With remote signalling contact | No |
| Rated load current IL | 80 A |

### Connection

| | |
|---|---|
| Cross-section of top and bottom terminal with screws, for flexible conductors | 1.5 - 25.0 mm² |

| | |
|---|---|
| **Connection** | |
| Cross-section of top and bottom terminal with screws, for rigid conductors | 1.5 - 35.0 mm² |
| Cross-section flexible conductor | 1.5 - 25 mm² |
| Cross-section rigid conductor | 1.5 - 35 mm² |
| Connector/plug type | Screw terminal |
| **Standards** | |
| Surge protection device type | T2 |
| **Frequency** | |
| Frequency | 50 - 60 Hz |
| **Installation, mounting** | |
| Nominal tightening torque | 3 - 4.5 Nm |
| Mounting-/Connection Position | Vertical |
| Suitable for indoor usage | Yes |
| **Architecture** | |
| Type of pole | 1P |
| **Connection** | |
| Number of connections | 1 |
| **Configuration** | |
| With integrated protection fuse | No |
| **Connectivity** | |
| Mounting type | DIN rail |
| Type of connection | Screw connection |
| **Controls and indicators** | |
| With indicator lamp | Yes |
| **Functions** | |
| Disconnector indication | Optical |
| Suitable for additional system configuration | No |
| **Fuse** | |
| Fuse characteristics | gG |
| **Internal use only** | |
| Standard | IEC/EN 61643-11 |
| **Electric current** | |
| Residual current Ipe | ≤ 0.45 mA |
| **Safety** | |
| Mode of protection | L-N<br>L-PEN |
| Current tripping factor k | 1.6 |
| TOV behaviour at UT | 350 V AC (5 s / withstand mode)<br>460 V AC (120 min / safe failure mode) |
| **Voltage** | |
| Nominal voltage | 240 - 415 V AC ± 10% |
| **Sustainability** | |
| Halogen free | Yes |
| REACh-SVHC free | Yes |
| RoHS conform | Yes |