



## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact B     |
| Device short name         | BD 080          |
| Product or component type | Circuit breaker |
| Device application        | Distribution    |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 80 A                                                                                                                                                                                                                                                                                                                                              |
| Number of Poles                        | 4P                                                                                                                                                                                                                                                                                                                                                |
| Protected poles description            | 4t                                                                                                                                                                                                                                                                                                                                                |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                            |
| Breaking capacity code                 | D                                                                                                                                                                                                                                                                                                                                                 |
| Breaking capacity                      | 25 KA at 208Y/120 V AC 50/60 Hz conforming to UL 489<br>18 KA at 240 V AC 50/60 Hz conforming to UL 489<br>Icu 25 kA at 480/277 V AC 50/60 Hz conforming to UL 489<br>Icu 14 kA at 480 V AC 50/60 Hz conforming to UL 489<br>18 KA at 600Y/347 V AC 50/60 Hz conforming to UL 489<br>14 KA at 250 V DC conforming to UL 489<br>25 KA<br>Icu 18 kA |
| [Ue] rated operational voltage         | 525 V AC 50/60 Hz conforming to UL 489                                                                                                                                                                                                                                                                                                            |
| [Ics] rated service breaking capacity  | 25 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>14 KA at 500...525 V AC 50/60 Hz conforming to IEC 60947-2<br>18 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>18 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                    |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2                                                                                                                                                                                                                                                                                                                                  |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                  |
| Continuous current rating              | 80 %                                                                                                                                                                                                                                                                                                                                              |
| [Ui] rated insulation voltage          | 800 V conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                   |
| Trip unit name                         | TM-D                                                                                                                                                                                                                                                                                                                                              |
| Suitability for isolation              | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                     |
| Utilisation category                   | Category A                                                                                                                                                                                                                                                                                                                                        |
| Mechanical durability                  | 15000 cycles conforming to IEC 947-1 Annex K ed 5.2                                                                                                                                                                                                                                                                                               |
| Electrical durability                  | 10000 cycles conforming to IEC 947-1 Annex K ed 5.2 at 440 V In                                                                                                                                                                                                                                                                                   |
| Connection pitch                       | 27 mm                                                                                                                                                                                                                                                                                                                                             |
| AWG gauge                              | AWG 14...AWG 8 aluminium/copper<br>AWG 6...AWG 3/0 aluminium/copper                                                                                                                                                                                                                                                                               |
| Local signalling                       | Flag (green) for presence of auxiliary contacts                                                                                                                                                                                                                                                                                                   |
| Mounting mode                          | Clip-on (35 mm symmetrical DIN rail)<br>By screws (plate)                                                                                                                                                                                                                                                                                         |
| Electrical connection                  | Terminal nut ON and OFF end                                                                                                                                                                                                                                                                                                                       |
| Tightening torque                      | 5 N.M for 2.5...16 mm <sup>2</sup> (AWG 14...AWG 4)<br>9 N.m for 25...95 mm <sup>2</sup> (AWG 3...AWG 3/0)                                                                                                                                                                                                                                        |

|                             |                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Number of slots             | 1 slot(s) for auxiliary switch OF (plug-in)<br>1 slot(s) for voltage release MN or MX (plug-in)<br>1 slot(s) for alarm switch SD (plug-in) |
| Power wire stripping length | 20 mm                                                                                                                                      |
| Color                       | Grey (RAL 7016)                                                                                                                            |
| 9 mm pitches                | 12                                                                                                                                         |
| Height                      | 137 mm                                                                                                                                     |
| Width                       | 108 mm                                                                                                                                     |
| Depth                       | 80 mm                                                                                                                                      |
| Net weight                  | 1.241 kg                                                                                                                                   |
| Quantity per set            | Set of 1                                                                                                                                   |

## Environment

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Quality labels                        | CE                                                                                                    |
| Standards                             | EN/IEC 60947-2<br>UL 489<br>NMX J-266<br>GB 14048.2<br>CSA C22.2 No 5<br>EN/IEC 60947-5-1<br>NEMA AB1 |
| Product certifications                | UL<br>IEC<br>CCC<br>EAC<br>CSA<br>NOM                                                                 |
| IP degree of protection               | Front cover: IP40 conforming to IEC 60529                                                             |
| IK degree of protection               | IK07 conforming to IEC 62262                                                                          |
| Pollution degree                      | 3 conforming to IEC 60947-1                                                                           |
| Ambient air temperature for operation | -25...70 °C                                                                                           |
| Ambient air temperature for storage   | -50...85 °C                                                                                           |
| Operating altitude                    | 2000 m without derating<br>5000 m with derating                                                       |

## Packing Units

|                  |           |
|------------------|-----------|
| Package 1 Weight | 1.640 kg  |
| Package 1 Height | 11.430 cm |
| Package 1 width  | 12.700 cm |
| Package 1 Length | 20.320 cm |

## Offer Sustainability

|                             |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                             |
| REACH Regulation            |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive           | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free                | Yes                                                                                                                               |
| RoHS exemption information  |  <a href="#">Yes</a>                           |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |
| PVC free                    | Yes                                                                                                                               |
| Halogen content performance | Halogen free product                                                                                                              |