



## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact B     |
| Device short name         | BG 045          |
| Product or component type | Circuit breaker |
| Device application        | Distribution    |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 45 A                                                                                                                                                                                                                                                                                                                |
| Number of Poles                        | 2P                                                                                                                                                                                                                                                                                                                  |
| Protected poles description            | 2t                                                                                                                                                                                                                                                                                                                  |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                              |
| Breaking capacity code                 | G                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity                      | 65 KA at 208Y/120 V AC 50/60 Hz conforming to UL 489<br>65 KA at 240 V AC 50/60 Hz conforming to UL 489<br>35 KA at 480/277 V AC 50/60 Hz conforming to UL 489<br>35 KA at 480 V AC 50/60 Hz conforming to UL 489<br>20 KA at 250 V DC conforming to UL 489<br>18 kA at 600Y/347 V AC 50/60 Hz conforming to UL 489 |
| [Ue] rated operational voltage         | 525 V AC 50/60 Hz conforming to UL 489                                                                                                                                                                                                                                                                              |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                            |
| [Ics] rated service breaking capacity  | 65 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>18 KA at 500...525 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2                                                                      |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                      |
| Trip unit technology                   | Thermal-magneticTM-D,                                                                                                                                                                                                                                                                                               |
| 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                       | Presence of auxiliary contacts: flag (green)                                                                                                                                                                                                                                                                        |
| 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) |
| Power wire stripping length | 20 mm                                                                                           |
| Color                       | Grey (RAL 7016)                                                                                 |
| 9 mm pitches                | 6                                                                                               |
| Height                      | 137 mm                                                                                          |
| Width                       | 54 mm                                                                                           |
| Depth                       | 80 mm                                                                                           |
| Net weight                  | 0.669 kg                                                                                        |
| Quantity per set            | Set of 1                                                                                        |
| Circuit breaker application | HACR rated                                                                                      |

## Environment

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Quality labels                        | CE                                                                                                    |
| Standards                             | CSA C22.2 No 5<br>EN/IEC 60947-2<br>GB 14048.2<br>UL 489<br>NMX J-266<br>NEMA AB1<br>EN/IEC 60947-5-1 |
| Product certifications                | UL[RETURN]IEC[RETURN]CCC[RETURN]EAC[RETURN]CSA[RETURN]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                                                       |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant with Exemptions                                                                                                         |
| 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> |
| Circularity Profile        | No need of specific recycling operations                                                                                          |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |