

# Product data sheet

Specifications



Circuit breaker, PowerPacT B, 40A,  
1 pole, 600Y/347VAC, 14kA,  
terminal nut, thermal magnetic, 80%

BDF16040

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product Name              | PowerPact B     |
| Device Short Name         | BD 040          |
| Product Or Component Type | Circuit breaker |
| Device Application        | Distribution    |

## Complementary

|  |   |
|--|---|
| [In] Rated Current                     | 40 A  |
| Number Of Poles                        | 1P  |
| Protected Poles Description            | 1t  |
| Control Type                           | Toggle  |
| Breaking Capacity Code                 | D   |
| Breaking Capacity                      | 25 kA at 208Y/120 V AC 50/60 Hz conforming to UL 489<br>25 kA at 240 V AC 50/60 Hz conforming to UL 489<br>18 kA at 480Y/277 V AC 50/60 Hz conforming to UL 489<br>10 kA at 125 V DC 50/60 Hz conforming to UL 489<br>14 kA at 600/347 V AC 50/60 Hz conforming to UL 489 |
| [Ue] Rated Operational Voltage         | 240 V AC 50/60 Hz conforming to UL 489  |
| Network Frequency                      | 50/60 Hz  |
| [Ics] Rated Service Breaking Capacity  | 25 kA at 220...240 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 F ed 5.2   |
| Electrical Durability                  | 10000 cycles conforming to IEC 947-1 Annex K ed 5.2 In  |
| Connection Pitch                       | 27 mm   |
| Awg Gauge                              | AWG 14...AWG 8 aluminium/copper<br>AWG 6...AWG 3/0 aluminium/copper   |
| Mounting Mode                          | Clip-on (35 mm symmetrical DIN rail)<br>By screws (plate)   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                             |  |
|-----------------------------|--|
| Electrical Connection       | Terminal nut, ON and OFF end   |
| Tightening Torque           | 5 N.m for 2.5...16 mm² (AWG 14...AWG 4)<br>9 N.m for 25...95 mm² (AWG 3...AWG 3/0) |
| Power Wire Stripping Length | 20 mm  |
| Color                       | Grey (RAL 7016)  |
| 9 Mm Pitches                | 3  |
| Height                      | 137 mm   |
| Width                       | 27 mm  |
| Depth                       | 80 mm  |
| Net Weight                  | 0.46 kg  |
| Quantity Per Set            | Set of 1   |
| Circuit Breaker Application | HACR rated   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Quality Labels                        | CE  |
| Standards                             | NMX J-266<br>GB 14048.2<br>EN/IEC 60947-2<br>NEMA AB1<br>UL 489<br>EN/IEC 60947-5-1<br>CSA C22.2 No 5 |
| 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

|                              |        |
|------------------------------|--------|
| Unit Type Of Package 1       | PCE    |
| Number Of Units In Package 1 | 1      |
| Package 1 Height             | 3.6 cm |
| Package 1 Width              | 12 cm  |
| Package 1 Length             | 19 cm  |
| Package 1 Weight             | 454 g  |

## Sustainability

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Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

✓ Pvc Free

✓ Halogen Free Product

## Certifications & Standards

|                           |  |
|---------------------------|--|
| Eu Rohs Directive         | Compliant<br><a href="#">EU RoHS Declaration</a>   |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information  |
| 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  |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |