# Product data sheet

Specifications

## Circuit breaker, PowerPacT B, 50A, 1 pole, 600Y/347VAC, 14kA, terminal nut, thermal magnetic, 80%

BDF16050

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range** | PowerPact |
| **Product Name** | PowerPact B |
| **Device Short Name** | BD 050 |
| **Product Or Component Type** | Circuit breaker |
| **Device Application** | Distribution |

## Complementary

| | |
|---|---|
| **Line Rated Current** | 50 A |
| **Number Of Poles** | 1P |
| **Protected Poles Description** | 1t |
| **Control Type** | Toggle |
| **Breaking Capacity Code** | D |
| **Breaking Capacity** | 25 kA 208Y/120 V AC 50/60 Hz UL 489<br>25 kA 240 V AC 50/60 Hz UL 489<br>18 kA 480Y/277 V AC 50/60 Hz UL 489<br>10 kA 125 V DC 50/60 Hz UL 489<br>14 kA 600/347 V AC 50/60 Hz UL 489 |
| **[Ue] Rated Operational Voltage** | 240 V AC 50/60 Hz UL 489 |
| **Network Frequency** | 50/60 Hz |
| **[Ics] Rated Service Breaking Capacity** | 25 kA 220...240 V AC 50/60 Hz IEC 60947-2 |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV IEC 60947-2 |
| **Trip Unit Technology** | Thermal-magneticTM-D, |
| **Continuous Current Rating** | 80 % |
| **[Ui] Rated Insulation Voltage** | 800 V IEC 60947-2 |
| **Trip Unit Name** | TM-D |
| **Suitability For Isolation** | Yes IEC 60947-2 |
| **Utilisation Category** | Category A |
| **Mechanical Durability** | 15000 cycles IEC 947-1 Annex F ed 5.2 |
| **Electrical Durability** | 10000 cycles IEC 947-1 Annex K ed 5.2 In |
| **Connection Pitch** | 1.06 in (27 mm) |
| **Awg Gauge** | AWG 14...AWG 8 aluminium/copper<br>AWG 6...AWG 3/0 aluminium/copper |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **Mounting Mode** | Clip-on 35 mm symmetrical DIN rail)<br>By screws plate) |
| **Electrical Connection** | Terminal nut, ON and OFF end |
| **Tightening Torque** | 44.25 lbf.in (5 N.m) 0.00…0.02 in² (2.5…16 mm²) (AWG 14...AWG 4)<br>79.66 lbf.in (9 N.m) 0.04…0.15 in² (25…95 mm²) (AWG 3...AWG 3/0) |
| **Power Wire Stripping Length** | 0.79 in (20 mm) |
| **Color** | Gray RAL 7016) |
| **9 Mm Pitches** | 3 |
| **Height** | 5.39 in (137 mm) |
| **Width** | 1.06 in (27 mm) |
| **Depth** | 3.15 in (80 mm) |
| **Net Weight** | 1.01 lb(US) (0.46 kg) |
| **Quantity Per Set** | Set of 1 |
| **Circuit Breaker Application** | HACR rated |

# Environment

| | |
|---|---|
| **Quality Labels** | CE |
| **Standards** | EN/IEC 60947-2<br>GB 14048.2<br>UL 489<br>NMX J-266<br>CSA C22.2 No 5<br>NEMA AB1<br>EN/IEC 60947-5-1 |
| **Product Certifications** | UL<br>IEC<br>CCC<br>EAC<br>CSA<br>NOM |
| **Ip Degree Of Protection** | Front cover IP40 IEC 60529 |
| **Ik Degree Of Protection** | IK07 conforming to IEC 62262 |
| **Pollution Degree** | 3 IEC 60947-1 |
| **Ambient Air Temperature For Operation** | -13…158 °F (-25…70 °C) |
| **Ambient Air Temperature For Storage** | -58…185 °F (-50…85 °C) |
| **Operating Altitude** | 6561.68 ft (2000 m) without derating<br>5000 m with derating |

# Ordering and shipping details

| | |
|---|---|
| **Category** | 01130 - BD UNIT MOUNT BREAKER/SWITCH |
| **Discount Schedule** | DE2 |
| **Gtin** | 3606481148674 |
| **Returnability** | No |
| **Country Of Origin** | MX |

# Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |

| | |
|---|---|
| **Package 1 Height** | 1.40 in (3.556 cm) |
| **Package 1 Width** | 4.70 in (11.938 cm) |
| **Package 1 Length** | 7.50 in (19.05 cm) |
| **Package 1 Weight** | 16.00 oz (453.592 g) |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |
| Halogen Free Product | |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information. |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **Circularity Profile** | No need of specific recycling operations |
| **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 www.P65Warnings.ca.gov |