# Product data sheet
## Characteristics

# BDF46050
## Circuit breaker, PowerPact B, 50A, 4 poles, 600Y/347V AC, 14kA at 600Y/347 UL, terminal nuts

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

Green Premium™

Price** : 1,465.00 USD



## 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 | 4P |
| Protected poles description | 4t |
| Control type | Toggle |
| Breaking capacity code | D |
| Breaking capacity | 25 kA 208Y/120 V AC 50/60 Hz UL 489<br>18 kA 240 V AC 50/60 Hz UL 489<br>Icu 25 kA 480/277 V AC 50/60 Hz UL 489<br>Icu 14 kA 480 V AC 50/60 Hz UL 489<br>18 kA 600Y/347 V AC 50/60 Hz UL 489<br>14 kA 250 V DC UL 489<br>25 kA<br>Icu 18 kA |
| [Ue] rated operational voltage | 525 V AC 50/60 Hz UL 489 |
| [Ics] rated service breaking capacity | 25 kA 220...240 V AC 50/60 Hz IEC 60947-2<br>14 kA 500...525 V AC 50/60 Hz IEC 60947-2<br>18 kA 380...415 V AC 50/60 Hz IEC 60947-2<br>18 kA 440 V AC 50/60 Hz IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2 |
| [Ui] rated insulation voltage | 800 V IEC 60947-2 |
| Trip unit technology | Thermal-magnetic |

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

| | |
|---|---|
| Trip unit name | TM-D |
| Suitability for isolation | Yes IEC 60947-2 |
| Utilisation category | Category A |
| Mechanical durability | 15000 cycles IEC 947-1 Annex K ed 5.2 |
| Electrical durability | 10000 cycles IEC 947-1 Annex K ed 5.2 440 V In |
| Connection pitch | 1.06 in (27 mm) |
| 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 |
| AWG gauge | AWG 14...AWG 8 aluminium/copper<br>AWG 6...AWG 3/0 aluminium/copper |
| 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) |
| Number of slots | 1 auxiliary switch OF plug-in)<br>1 voltage release MN or MX plug-in)<br>1 alarm switch SD plug-in) |
| Power wire stripping length | 0.79 in (20 mm) |
| Color | Gray RAL 7016) |
| 9 mm pitches | 12 |
| Maximum Height | 5.39 in (137 mm) |
| Maximum Width | 4.25 in (108 mm) |
| Maximum Depth | 3.15 in (80 mm) |
| Net Weight | 2.74 lb(US) (1.241 kg) |
| Quantity per set | Set of 1 |
| Continuous current rating | 80 % |

## Environment

| | |
|---|---|
| Quality labels | CE |
| Standards | EN/IEC 60947-2<br>GB 14048.2<br>NMX J-266<br>CSA C22.2 No 5<br>EN/IEC 60947-5-1<br>UL 489<br>NEMA AB1 |
| 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 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 | 03606481150172 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4 lb(US) (1.81 kg) |
| Returnability | Yes |

## Packing Units

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|---|---|
| Package 1 Height | 4.50 in (11.430 cm) |
| Package 1 width | 5.00 in (12.700 cm) |
| Package 1 Length | 8.00 in (20.320 cm) |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| 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. |
| PVC free | Yes |
| Halogen content performance | Halogen free product |