

# BDF46030

Circuit breaker, PowerPacT B, 30A, 4 pole,  
600Y/347VAC, 14kA, terminal nut, thermal  
magnetic, 80%

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact B     |
| Device short name         | BD 030          |
| Product or component type | Circuit breaker |
| Device application        | Distribution    |

## Complementary

|  |   |
|--|---|
| [In] rated current                     | 30 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  |
| 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<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 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)[RETURN]1 slot(s) for voltage release MN or MX (plug-in)[RETURN]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   |
| Circuit breaker application | HACR rated   |

## Environment

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

|   |   |
|---|---|
| Packaging without single use plastic                  | Yes   |
| Packaging made with recycled cardboard                | Yes   |
| REACH Regulation                                      | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive                                     | Compliant with Exemptions   |
| Mercury free  | Yes   |
| Sustainable packaging                                 | 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 |
| PVC free  | Yes   |
| Halogen content performance                           | Halogen free product  |
| Take-back   | No  |
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 279   |