



## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact B     |
| Device short name         | BD 020          |
| Product or Component Type | Circuit breaker |
| Device Application        | Distribution    |

## Complementary

|                                        |                                                                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line Rated Current                     | 20 A                                                                                                                                                                                                                      |
| Number of Poles                        | 2P                                                                                                                                                                                                                        |
| 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 480/277 V AC 50/60 Hz UL 489<br>18 KA 480 V AC 50/60 Hz UL 489<br>10 kA 600Y/347 V AC 50/60 Hz UL 489                                      |
| [Ue] rated operational voltage         | 525 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<br>18 KA 500...525 V AC 50/60 Hz IEC 60947-2<br>14 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                                                                                                                                                                                                          |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                                                                          |
| Continuous current rating              | 80 %                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage          | 800 V IEC 60947-2                                                                                                                                                                                                         |
| Suitability for isolation              | Yes IEC 60947-2                                                                                                                                                                                                           |
| Utilisation category                   | Category A                                                                                                                                                                                                                |
| Mechanical durability                  | 20000 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)                                                                                                                                                                                                           |
| AWG gauge                              | AWG 14...AWG 2/0 aluminium/copper                                                                                                                                                                                         |
| Local signalling                       | Presence of auxiliary contacts flag green)                                                                                                                                                                                |
| Mounting mode                          | I-Line                                                                                                                                                                                                                    |
| Electrical connection                  | I-Line connection, line<br>Lugs, load                                                                                                                                                                                     |
| Mounting Height                        | 3.0000000000 in (76.2 mm)                                                                                                                                                                                                 |
| Tightening torque                      | 31.9...38.9 Lbf.In (3.6...4.4 N.m) 0.004...0.009 in <sup>2</sup> (2.5...6 mm <sup>2</sup> ) (AWG 14...AWG 10)<br>44.3...54.9 lbf.in (5...6.2 N.m) 0.02...0.1 in <sup>2</sup> (10...70 mm <sup>2</sup> ) (AWG 8...AWG 2/0) |
| Number of slots                        | 1 auxiliary switch OF plug-in)<br>1 voltage release MN or MX plug-in)                                                                                                                                                     |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                             |                         |
|-----------------------------|-------------------------|
| Power wire stripping length | 0.8 in (20 mm)          |
| Color                       | Gray RAL 7016)          |
| 9 mm pitches                | 6                       |
| Height                      | 5.4 in (137 mm)         |
| Width                       | 2.1 in (54 mm)          |
| Depth                       | 3.5 in (89 mm)          |
| Net Weight                  | 2.099 lb(US) (0.952 kg) |
| Quantity per Set            | Set of 1                |
| Phase connection            | BC                      |
| Circuit breaker application | HACR rated              |

## Environment

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Quality labels                        | CE                                                                                                    |
| Standards                             | UL 489<br>GB 14048.2<br>NEMA AB1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-2<br>CSA C22.2 No 5<br>NMX J-266 |
| Product certifications                | UL[RETURN]IEC[RETURN]CCC[RETURN]EAC[RETURN]CSA[RETURN]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          | US10DE201133  |
| Discount Schedule | 0DE2          |
| GTIN              | 3606481151780 |
| Returnability     | No            |
| Country of origin | MX            |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 4.8 in (12.2 cm)      |
| Package 1 Width              | 8.1 in (20.6 cm)      |
| Package 1 Length             | 12.7 in (32.3 cm)     |
| Package 1 Weight             | 3.11 lb(US) (1.41 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                              |
| 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> |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                      |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                                                             |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                |
| 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.                                                                                                                                                                                                       |

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|-----------------------------|----------------------|
| PVC free                    | Yes                  |
| Halogen content performance | Halogen free product |

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