

# Product data sheet

## Characteristics

# BDL46045LU

Circuit breaker, PowerPact B, 45A, 4 pole, 14 kA, 600Y/347 VAC, UL, Everlink, control wire ON end



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

Price\*: 2364.00 USD



### Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | PowerPact       |
| Product name              | PowerPact B     |
| Device short name         | BD 045          |
| Product or Component Type | Circuit breaker |
| Device Application        | Distribution    |

### Complementary

|  |   |
|--|---|
| Line Rated Current                     | 45 A  |
| Poles description                      | 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  |
| Network Frequency                      | 50/60 Hz  |
| [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  |
| 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 conforming to 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)  |
| AWG gauge             | AWG 6...AWG 2/0 fine stranded aluminium/copper<br>AWG 14...AWG 3/0 rigid or stranded 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 | Everlink lug line<br>Everlink lug load   |
| Tightening torque     | 44.25 Lbf.In (5 N.m) 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) (AWG 14...AWG 4)<br>79.66 Lbf.In (9 N.m) 0.04...0.15 in <sup>2</sup> (25...95 mm <sup>2</sup> ) (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)  |
| Wire stripping length | 0.79 In (20 mm)  |
| Color                 | Grey (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            | 3.18 Lb(US) (1.441 kg)   |
| Quantity per Set      | Set of 1   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Quality labels                        | CE  |
| Standards                             | NEMA AB1<br>NMX J-266<br>CSA C22.2 No 5<br>EN/IEC 60947-2<br>UL 489<br>GB 14048.2<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                  | 03606481150011                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 4.00 Lb(US) (1.814 kg)               |
| Returnability         | No                                   |
| Country of origin     | MX                                   |

## Packing Units

|                        |                    |
|------------------------|--------------------|
| Unit Type of Package 1 | PCE                |
| Package 1 Height       | 4.50 In (11.43 cm) |
| Package 1 width        | 5.00 In (12.7 cm)  |
| Package 1 Length       | 8.00 In (20.32 cm) |

## Offer Sustainability

|                             |  |
|-----------------------------|--|
| Sustainable offer status    | Green Premium product  |
| California proposition 65   | WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>                   |
| REACH Regulation            | <a href="#">REACH Declaration</a>  |
| EU RoHS Directive           | Compliant <a href="#">EU RoHS Declaration</a>  |
| Mercury free                | 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>  |
| 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   |

Product Life Status : **Commercialised**