

Product data sheet

Specifications

SQUARE D



Circuit breaker, PowerPacT B,
100A, 3 pole, 600Y/347VAC,
14kA, lugs, thermal magnetic, 80%

BDL36100

Main

| | |
|---------------------------|-----------------|
| Range | PowerPact |
| Product name | PowerPact B |
| Device short name | BD 100 |
| Product or Component Type | Circuit breaker |
| Device Application | Distribution |

Complementary

| | |
|--|---|
| Line Rated Current | 100 A |
| Number of Poles | 3P |
| Control Type | Toggle |
| Breaking capacity code | D |
| Breaking capacity | 25 kA 208Y/120 V AC 50/60 Hz UL 489 25 kA 240 V AC 50/60 Hz UL 489 18 kA 480/277 V AC 50/60 Hz UL 489 18 kA 480 V AC 50/60 Hz UL 489 14 kA 600Y/347 V AC 50/60 Hz UL 489 10 kA 250 V DC 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 14 kA 500...525 V AC 50/60 Hz IEC 60947-2 18 kA 380...415 V AC 50/60 Hz IEC 60947-2 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 6...AWG 2/0 fine stranded aluminium/copper AWG 14...AWG 3/0 rigid or stranded aluminium/copper |

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

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|-----------------------------|--|
| Local signalling | Presence of auxiliary contacts flag green) |
| Mounting mode | Clip-on 35 x 15 mm symmetrical DIN rail) By screws plate) |
| Electrical connection | Everlink lug, line Everlink lug, load |
| Tightening torque | 44.3 lbf.in (5 N.m) 0.004...0.02 in² (2.5...16 mm²) (AWG 14...AWG 4) 79.7 lbf.in (9 N.m) 0.04...0.1 in² (25...95 mm²) (AWG 3...AWG 3/0) |
| Number of slots | 1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in) 1 alarm switch SD plug-in) |
| Power wire stripping length | 0.8 in (20 mm) |
| Color | Gray RAL 7016) |
| 9 mm pitches | 9 |
| Height | 5.4 in (137 mm) |
| Width | 3.2 in (81 mm) |
| Depth | 3.1 in (80 mm) |
| Net Weight | 2.368 lb(US) (1.074 kg) |
| Quantity per Set | Set of 1 |
| Circuit breaker application | HACR rated |

Environment

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|---------------------------------------|---|
| Quality labels | CE |
| Standards | UL 489 GB 14048.2 NEMA AB1 EN/IEC 60947-2 EN/IEC 60947-5-1 NMX J-266 CSA C22.2 No 5 |
| Product certifications | UL IEC CCC EAC CSA 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 | -13.0000000000...158.0000000000 °F (-25...70 °C) |
| Ambient Air Temperature for Storage | -58.0000000000...185.0000000000 °F (-50...85 °C) |
| Operating altitude | < 6561.68 ft (2000 m) without derating 5000 m with derating |