



### Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 090
Product or component type	Circuit breaker
Device application	Distribution

### Complementary

Line Rated Current	90 A
Number of Poles	1P
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 480Y/277 V AC 50/60 Hz UL 489 10 KA 125 V DC 50/60 Hz UL 489 14 kA 600/347 V AC 50/60 Hz UL 489
[Ue] rated operational voltage	240 V AC 50/60 Hz UL 489
[Ics] rated service breaking capacity	25 kA at 220...240 V AC 50/60 Hz conforming to 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
Suitability for isolation	Yes conforming to 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)
Local signalling	For presence of auxiliary contacts flag (green)
Mounting mode	I-Line
Electrical connection	I-Line connection line Lugs load
AWG gauge	AWG 14...AWG 2/0 aluminium/copper
Mounting height	1.50 in (38.1 mm)
Tightening torque	31.86...38.94 Lbf.in (3.6...4.4 N.m) 0.00...0.01 in <sup>2</sup> (2.5...6 mm <sup>2</sup> ) AWG 14...AWG 10) 44.25...54.87 lbf.in (5...6.2 N.m) 0.02...0.11 in <sup>2</sup> (10...70 mm <sup>2</sup> ) AWG 8...AWG 2/0)
Power wire stripping length	0.79 in (20 mm)
Color	Grey (RAL 7016)
9 mm pitches	3
Height	5.39 in (137 mm)
Width	1.06 in (27 mm)
Maximum Depth	3.50 in (89 mm)
Net Weight	1.41 lb(US) (0.6375 kg)
Quantity per set	Set of 1

Phase connection	B
Continuous current rating	80 %

## Environment

Quality labels	CE
Standards	NMX J-266 GB 14048.2 NEMA AB1 EN/IEC 60947-5-1 EN/IEC 60947-2 CSA C22.2 No 5 UL 489
Product certifications	UL IEC CCC EAC CSA 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 5000 m with derating

## Ordering and shipping details

Category	01133-BDA I-LINE BREAKER
Discount Schedule	DE2
Package weight(Lbs)	25.76 oz (730.284 g)
Returnability	Yes

## 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>
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>
PVC free	Yes
Halogen content performance	Halogen free product