



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	2P
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 10 KA 600Y/347 V AC 50/60 Hz UL 489 250 V DC UL 489
[Ue] rated operational voltage	525 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 14 KA 500...525 V AC 50/60 Hz IEC 60947-2 18 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 18 KA at 440 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	3.00 in (76.2 mm)
Tightening torque	31.86...38.94 Lbf.in (3.6...4.4 N.m) 0.00...0.01 in ² (2.5...6 mm ²) AWG 14...AWG 10) 44.25...54.87 lbf.in (5...6.2 N.m) 0.02...0.11 in ² (10...70 mm ²) AWG 8...AWG 2/0)
Number of slots	1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in)
Power wire stripping length	0.79 in (20 mm)
Color	Grey (RAL 7016)
9 mm pitches	6

Height	5.39 in (137 mm)
Width	2.13 in (54 mm)
Maximum Depth	3.50 in (89 mm)
Net Weight	2.10 lb(US) (0.952 kg)
Quantity per set	Set of 1
Phase connection	CA
Continuous current rating	80 %

Environment

Quality labels	CE
Standards	NEMA AB1 GB 14048.2 EN/IEC 60947-5-1 CSA C22.2 No 5 NMX J-266 UL 489 EN/IEC 60947-2
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 conforming to 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
Nbr. of units in pkg.	1
Package weight(Lbs)	2.9 lb(US) (1.32 kg)
Returnability	Yes
Country of origin	US

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 www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
PVC free	Yes
Halogen content performance	Halogen free product