



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
Number of Poles	3P
Protected poles description	3t
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 KA 208Y/120 V AC 50/60 Hz UL 489 18 KA 240 V AC 50/60 Hz UL 489 Icu 25 KA 480/277 V AC 50/60 Hz UL 489 Icu 14 kA 480 V AC 50/60 Hz UL 489 18 KA 600Y/347 V AC 50/60 Hz UL 489 14 KA 250 V DC UL 489 25 KA Icu 18 kA
[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
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)
Local signalling	For presence of auxiliary contacts flag (green)
Mounting mode	Clip-on 35 mm symmetrical DIN rail) By screws plate)
Electrical connection	Everlink lug line Everlink lug load
Number of slots	1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in) 1 alarm switch SD plug-in)
AWG gauge	AWG 6...AWG 2/0 fine stranded aluminium/copper AWG 14...AWG 3/0 rigid or stranded aluminium/copper

Tightening torque	44.25 Lbf.in (5 N.m) 0.00...0.02 in ² (2.5...16 mm ²) AWG 14...AWG 4) 79.66 lbf.in (9 N.m) 0.04...0.15 in ² (25...95 mm ²) AWG 3...AWG 3/0)
Power wire stripping length	0.79 in (20 mm)
Color	Grey (RAL 7016)
9 mm pitches	9
Height	5.39 in (137 mm)
Width	3.19 in (81 mm)
Maximum Depth	3.15 in (80 mm)
Net Weight	2.37 lb(US) (1.074 kg)
Quantity per set	Set of 1
Continuous current rating	80 %

Environment

Quality labels	CE
Standards	CSA C22.2 No 5 EN/IEC 60947-2 GB 14048.2 NEMA AB1 UL 489 NMX J-266 EN/IEC 60947-5-1
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	01130-BD UNIT MOUNT BREAKER/SWITCH
Discount Schedule	DE2
GTIN	03606481149114
Package weight(Lbs)	2.60 lb(US) (1.179 kg)
Returnability	No
Country of origin	US

Packing Units

Package 1 Height	4.70 in (11.938 cm)
Package 1 width	3.30 in (8.382 cm)
Package 1 Length	8.10 in (20.574 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - 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

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