



Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 050
Product or component type	Circuit breaker
Device application	Distribution

Complementary

Line Rated Current	50 A
Number of Poles	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 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 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

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 14...AWG 8 aluminium/copper AWG 6...AWG 3/0 aluminium/copper
Local signalling	for presence of auxiliary contacts flag (green)
Mounting mode	Clip-on 35 mm symmetrical DIN rail) By screws plate)
Electrical connection	Terminal nut ON and OFF end
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)
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	0.79 in (20 mm)
Color	Grey (RAL 7016)
9 mm pitches	12
Height	5.39 in (137 mm)
Width	4.25 in (108 mm)
Depth	3.15 in (80 mm)
Net Weight	2.74 lb(US) (1.241 kg)
Quantity per set	Set of 1

Environment

Quality labels	CE
Standards	EN/IEC 60947-2 GB 14048.2 NMX J-266 CSA C22.2 No 5 EN/IEC 60947-5-1 UL 489 NEMA AB1
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	01130 - BD UNIT MOUNT BREAKER/SWITCH
Discount Schedule	DE2
GTIN	03606481150172
Nbr. of units in pkg.	1
Package weight(Lbs)	4.00 lb(US) (1.814 kg)
Returnability	Yes

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 - www.P65Warnings.ca.gov
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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