



Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 045
Product or component type	Circuit breaker
Device application	Distribution

Complementary

[In] rated current	45 A
Number of Poles	1P
Protected poles description	1t
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 KA at 208Y/120 V AC 50/60 Hz conforming to UL 489 25 KA at 240 V AC 50/60 Hz conforming to UL 489 18 KA at 480Y/277 V AC 50/60 Hz conforming to UL 489 10 KA at 125 V DC 50/60 Hz conforming to UL 489 14 KA at 600/347 V AC 50/60 Hz conforming to UL 489
[Ue] rated operational voltage	240 V AC 50/60 Hz conforming to UL 489
Network frequency	50/60 Hz
[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 conforming to IEC 60947-2
Trip unit technology	Thermal-magneticTM-D,
Continuous current rating	80 %
[Ui] rated insulation voltage	800 V conforming to 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 conforming to IEC 947-1 Annex F ed 5.2
Electrical durability	10000 cycles conforming to IEC 947-1 Annex K ed 5.2 In
Connection pitch	27 mm
AWG gauge	AWG 14...AWG 8 aluminium/copper AWG 6...AWG 3/0 aluminium/copper
Mounting mode	Clip-on (35 mm symmetrical DIN rail) By screws (plate)
Electrical connection	Terminal nut, ON and OFF end
Tightening torque	5 N.M for 2.5...16 mm ² (AWG 14...AWG 4) 9 N.m for 25...95 mm ² (AWG 3...AWG 3/0)
Power wire stripping length	20 mm
Color	Grey (RAL 7016)
9 mm pitches	3
Height	137 mm

Width	27 mm
Depth	80 mm
Net weight	0.46 kg
Quantity per set	Set of 1
Circuit breaker application	HACR rated

Environment

Quality labels	CE
Standards	NEMA AB1 NMX J-266 EN/IEC 60947-2 GB 14048.2 UL 489 CSA C22.2 No 5 EN/IEC 60947-5-1
Product certifications	UL[RETURN]IEC[RETURN]CCC[RETURN]EAC[RETURN]CSA[RETURN]NOM
IP degree of protection	Front cover: IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Pollution degree	3 conforming to IEC 60947-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Operating altitude	2000 m without derating 5000 m with derating

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins