



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	4P
Protected poles description	4t
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 KA at 208Y/120 V AC 50/60 Hz conforming to UL 489 18 KA at 240 V AC 50/60 Hz conforming to UL 489 Icu 25 kA at 480/277 V AC 50/60 Hz conforming to UL 489 Icu 14 kA at 480 V AC 50/60 Hz conforming to UL 489 18 KA at 600Y/347 V AC 50/60 Hz conforming to UL 489 14 KA at 250 V DC conforming to UL 489 25 KA Icu 18 kA
[Ue] rated operational voltage	525 V AC 50/60 Hz conforming to UL 489
[Ics] rated service breaking capacity	25 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 14 KA at 500...525 V AC 50/60 Hz conforming to 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
Trip unit technology	Thermal-magnetic
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 K ed 5.2
Electrical durability	10000 cycles conforming to IEC 947-1 Annex K ed 5.2 at 440 V In
Connection pitch	27 mm
AWG gauge	AWG 14...AWG 8 aluminium/copper AWG 6...AWG 3/0 aluminium/copper
Local signalling	Flag (green) for presence of auxiliary contacts
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)

Number of slots	1 slot(s) for auxiliary switch OF (plug-in) 1 slot(s) for voltage release MN or MX (plug-in) 1 slot(s) for alarm switch SD (plug-in)
Power wire stripping length	20 mm
Color	Grey (RAL 7016)
9 mm pitches	12
Height	137 mm
Width	108 mm
Depth	80 mm
Net weight	1.241 kg
Quantity per set	Set of 1

Environment

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

Packing Units

Package 1 Weight	1.708 kg
Package 1 Height	11.430 cm
Package 1 width	12.700 cm
Package 1 Length	20.320 cm

Offer Sustainability

Sustainable offer status	Green Premium product
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