



Main

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

Complementary

[In] rated current	50 A
Poles description	2P
Protected poles description	2t
Control type	Toggle
Mounting mode	I-Line
Network type	AC
Network frequency	50/60 Hz
Breaking capacity code	D
Breaking capacity	25 kA at 240 V AC 50/60 Hz according to UL 489 18 kA at 480 V AC 50/60 Hz according to UL 489 Icu : 25 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2 Icu : 18 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2 Icu : 18 kA at 440 V AC 50/60 Hz according to IEC 60947-2 Icu : 14 kA at 500...525 V AC 50/60 Hz according to IEC 60947-2 18 kA at 480Y/277 V AC 50/60 Hz according to UL 489 14 kA at 600Y/347 V AC 50/60 Hz according to UL 489 25 kA at 208Y/120 V AC 50/60 Hz according to UL 489
[Ue] rated operational voltage	690 V AC 50/60 Hz according to IEC 60947-2
[Ics] rated service breaking capacity	25 kA : at 220...240 V AC 50/60 Hz according to IEC 60947-2 18 kA : at 380...415 V AC 50/60 Hz according to IEC 60947-2 18 kA : at 440 V AC 50/60 Hz according to IEC 60947-2 14 kA : at 500...525 V AC 50/60 Hz according to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV according to IEC 60947-2
[Ui] rated insulation voltage	800 V according to IEC 60947-2
Trip unit technology	Thermal-magnetic
Trip unit name	TM-D
Suitability for isolation	Yes according to IEC 60947-2
Utilisation category	Category A
Mechanical durability	20000 cycles IEC 947-1 Annex K ed 5.2
Electrical durability	10000 cycles according to IEC 947-1 Annex K ed 5.2 for In at 440 V
Connection pitch	27 mm
Local signalling	Green flag for presence of auxiliary contacts
Rotary handle padlocking	Padlock in OFF or ON position

Connections - terminals	Upside I-Line wire size 2.5...6 mm ² (AWG 14...AWG 10) aluminium/copper Downside mechanical lug wire size 10...70 mm ² (AWG 8...AWG 2/0) aluminium/copper
Mounting height	76.2 mm
Tightening torque	3.6...4.4 N.m for 2.5...6 mm ² (AWG 14...AWG 10) 5...6.2 N.m for 10...70 mm ² (AWG 8...AWG 2/0)
Number of slots	1 slot(s) for auxiliary switch OF (plug-in) 1 slot(s) for voltage release MN or MX (plug-in)
Wire stripping length	20 mm
Quality labels	CE
Standards	EN/IEC 60947-2 EN/IEC 60947-5-1 GB 14048.2 NEMA AB1 UL 489 CSA C22.2 No 5 NMX J-266
Colour	Grey (RAL 7016)
9 mm pitches	6
Height	246.5 mm
Width	75.6 mm
Depth	131.3 mm
Product weight	1.02 kg
Quantity per set	Set of 1

Environment

Product certifications	UL IEC
IP degree of protection	IP40 (front cover) according to IEC 60529
IK degree of protection	IK07 according to IEC 62262
Pollution degree	3 according to IEC 60947-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Operating altitude	5000 m with derating 2000 m without derating

Product Life Status : **Commercialised**