



Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 080
Product or component type	Circuit breaker
Device application	Distribution

Complementary

[In] rated current	80 A
Poles description	3P
Protected poles description	3t
Control type	Toggle
Mounting mode	By screws for plate Clip-on for 35 mm symmetrical DIN rail
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ui] rated insulation voltage	800 V according to IEC 60947-2
Trip unit technology	Thermal-magnetic
Trip unit name	TM-D
Trip unit protection functions	LI
Protection type	Overload protection (thermal) Short-circuit protection (magnetic)
Trip unit rating	80 A at 40 °C
Magnetic hold current	800 A
Magnetic tripping current	1200 A
Suitability for isolation	Yes according to IEC 60947-2
Utilisation category	Category A
Mechanical durability	15000 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 1 EverLink lug with voltage tap-off wire size 2.5...70 mm ² (AWG 14...AWG 2/0) , fine stranded copper Downside 1 Everlink lug wire size 2.5...70 mm ² (AWG 14...AWG 2/0) , fine stranded copper Upside 1 EverLink lug with voltage tap-off wire size 2.5...95 mm ² (AWG 14...AWG 3/0) , rigid or stranded aluminium/copper Downside 1 Everlink lug wire size 2.5...95 mm ² (AWG 14...AWG 3/0) , rigid or stranded aluminium/copper
Current of common	10 A for 0.5...6 mm ² (AWG 20...AWG 10) , (stranded or fine stranded) 10 A for 1.5...6 mm ² (AWG 20...AWG 10) , (rigid)
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)
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	9
Height	137 mm
Width	81 mm
Depth	80 mm
Product weight	1.074 kg
Quantity per set	Set of 1

Environment

Product certifications	UL CSA CCC EAC NOM 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
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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1644 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
