Product data sheet

Specifications

Circuit breaker, PowerPacT B, 45A, 1 pole, 600Y/347VAC, 18kA, lugs, thermal magnetic, 80%

BGL16045

Main

Range	PowerPact
Product name	PowerPact B
Device short name	BG 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	G
Breaking capacity	65 kA at 208Y/120 V AC 50/60 Hz conforming to UL 489 65 kA at 240 V AC 50/60 Hz conforming to UL 489 35 kA at 480Y/277 V AC 50/60 Hz conforming to UL 489 18 kA at 600Y/347 V AC 50/60 Hz conforming to UL 489 20 kA at 125 V DC 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	65 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 6...AWG 2/0 fine stranded aluminium/copper AWG 14...AWG 3/0 rigid or stranded aluminium/copper
Mounting mode	Clip-on (35 mm symmetrical DIN rail) By screws (plate)

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

Electrical connection	Everlink lug, line Everlink lug, load
Tightening torque	5 N.m for 2.5…16 mm² (AWG 14...AWG 4) 9 N.m for 25…95 mm² (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	0.51 kg
Quantity per set	Set of 1
Circuit breaker application	HACR rated

Environment

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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.6 cm
Package 1 Width	12 cm
Package 1 Length	19 cm
Package 1 Weight	454 g

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	70
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Halogen-free status	Halogen free product
PVC free	Yes

Use Again

Repack and remanufacture

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins