

Product data sheet

Specifications



Circuit breaker, PowerPacT B, 50A,
1 pole, 600Y/347VAC, 14kA, lugs,
thermal magnetic, 80%

BDL16050

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
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 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 60947-2 NMX J-266 NEMA AB1 EN/IEC 60947-5-1 CSA C22.2 No 5 UL 489 GB 14048.2
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	6.1 cm
Package 1 Width	16.5 cm
Package 1 Length	25.9 cm
Package 1 Weight	666.8 g

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

✓ Halogen Free Product

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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
Circularity Profile	No need of specific recycling operations
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