Product data sheet

Specifications

Circuit breaker, PowerPacT B, 90A, 4 pole, 600Y/347VAC, 14kA, lugs, thermal magnetic, 80%

BDL46090

Main

Range	PowerPact
Product Name	PowerPact B
Device Short Name	BD 090
Product Or Component Type	Circuit breaker
Device Application	Distribution

Complementary

Line Rated Current	90 A
Number Of Poles	4P
Control Type	Toggle
Breaking Capacity Code	D
Breaking Capacity	25 kA 208Y/120 V AC 50/60 Hz UL 489 25 kA 240 V AC 50/60 Hz UL 489 18 kA 480/277 V AC 50/60 Hz UL 489 18 kA 480 V AC 50/60 Hz UL 489 14 kA 600Y/347 V AC 50/60 Hz UL 489 10 kA 250 V DC UL 489
[Ue] Rated Operational Voltage	525 V AC 50/60 Hz UL 489
Network Frequency	50/60 Hz
[Ics] Rated Service Breaking Capacity	25 kA 220...240 V AC 50/60 Hz IEC 60947-2 14 kA 500...525 V AC 50/60 Hz IEC 60947-2 18 kA 380...415 V AC 50/60 Hz IEC 60947-2 18 kA 440 V AC 50/60 Hz 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 IEC 60947-2
Suitability For Isolation	Yes IEC 60947-2
Utilisation Category	Category A
Mechanical Durability	20000 cycles IEC 947-1 Annex K ed 5.2
Electrical Durability	10000 cycles IEC 947-1 Annex K ed 5.2 440 V In
Connection Pitch	1.06 in (27 mm)
Awg Gauge	AWG 6...AWG 2/0 fine stranded aluminium/copper AWG 14...AWG 3/0 rigid or stranded aluminium/copper
Local Signalling	Presence of auxiliary contacts flag green)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Mounting Mode	Clip-on 35 x 15 mm symmetrical DIN rail) By screws plate)
Electrical Connection	Everlink lug, line Everlink lug, load
Tightening Torque	44.25 lbf.in (5 N.m) 0.00…0.02 in² (2.5…16 mm²) (AWG 14...AWG 4) 79.66 lbf.in (9 N.m) 0.04…0.15 in² (25…95 mm²) (AWG 3...AWG 3/0)
Number Of Slots	1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in) 1 alarm switch SD plug-in)
Power Wire Stripping Length	0.79 in (20 mm)
Color	Gray RAL 7016)
9 Mm Pitches	12
Height	5.39 in (137 mm)
Width	4.25 in (108 mm)
Depth	3.15 in (80 mm)
Net Weight	3.18 lb(US) (1.441 kg)
Quantity Per Set	Set of 1
Circuit Breaker Application	HACR rated

Environment

Quality Labels	CE
Standards	UL 489 CSA C22.2 No 5 EN/IEC 60947-5-1 NEMA AB1 NMX J-266 GB 14048.2 EN/IEC 60947-2
Product Certifications	UL IEC CCC EAC CSA NOM
Ip Degree Of Protection	Front cover IP40 IEC 60529
Ik Degree Of Protection	IK07 conforming to IEC 62262
Pollution Degree	3 IEC 60947-1
Ambient Air Temperature For Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature For Storage	-58…185 °F (-50…85 °C)
Operating Altitude	< 6561.68 ft (2000 m) without derating 5000 m with derating

Ordering and shipping details

Category	01130-BD UNIT MOUNT BREAKER/SWITCH
Discount Schedule	DE2
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Weight	2.60 lb(US) (1.179 kg)

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-CO_2 products.

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

Learn more about Green Premium >

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