

# Product data sheet

Specifications

SQUARE D



Circuit breaker, PowerPact B,  
20A, 2 pole, 480Y/277VAC, 35kA,  
I-Line, thermal magnetic, 80%, AB

BGA24020Y1

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	PowerPact
Product name	PowerPact B
Device short name	BG 020
Product or Component Type	Circuit breaker
Device Application	Distribution

## Complementary

Line Rated Current	20 A
Number of Poles	2P
Control Type	Toggle
Breaking capacity code	G
Breaking capacity	65 kA 208Y/120 V AC 50/60 Hz UL 489 65 kA 240 V AC 50/60 Hz UL 489 35 kA 480/277 V AC 50/60 Hz UL 489 35 kA 480 V AC 50/60 Hz UL 489 20 kA 250 V DC UL 489 18 kA 600Y/347 V AC 50/60 Hz UL 489
[Ue] rated operational voltage	525 V AC 50/60 Hz UL 489
Network Frequency	50/60 Hz
[Ics] rated service breaking capacity	65 kA 220...240 V AC 50/60 Hz IEC 60947-2 18 kA 500...525 V AC 50/60 Hz IEC 60947-2 35 kA 380...415 V AC 50/60 Hz IEC 60947-2 35 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 14...AWG 2/0 aluminium/copper
Local signalling	Presence of auxiliary contacts flag green)
Mounting mode	I-Line

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

<b>Electrical connection</b>	I-Line connection, line Lugs, load
<b>Mounting Height</b>	3.0 in (76.2 mm)
<b>Tightening torque</b>	31.9...38.9 lbf.in (3.6...4.4 N.m) 0.004...0.009 in <sup>2</sup> (2.5...6 mm <sup>2</sup> ) (AWG 14...AWG 10) 44.3...54.9 lbf.in (5...6.2 N.m) 0.02...0.1 in <sup>2</sup> (10...70 mm <sup>2</sup> ) (AWG 8...AWG 2/0)
<b>Number of slots</b>	1 auxiliary switch OF plug-in) 1 voltage release MN or MX plug-in)
<b>Power wire stripping length</b>	0.8 in (20 mm)
<b>Color</b>	Gray RAL 7016)
<b>9 mm pitches</b>	6
<b>Height</b>	5.4 in (137 mm)
<b>Width</b>	2.1 in (54 mm)
<b>Depth</b>	3.5 in (89 mm)
<b>Net Weight</b>	2.099 lb(US) (0.952 kg)
<b>Quantity per Set</b>	Set of 1
<b>Phase connection</b>	AB
<b>Circuit breaker application</b>	HACR rated

## Environment

<b>Quality labels</b>	CE
<b>Standards</b>	GB 14048.2 CSA C22.2 No 5 NMX J-266 EN/IEC 60947-5-1 UL 489 EN/IEC 60947-2 NEMA AB1
<b>Product certifications</b>	UL IEC CCC EAC CSA NOM
<b>IP degree of protection</b>	Front cover IP40 IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Pollution degree</b>	3 IEC 60947-1
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-58...185 °F (-50...85 °C)
<b>Operating altitude</b>	< 6561.68 ft (2000 m) without derating 5000 m with derating

## Ordering and shipping details

<b>Category</b>	US10DE201134
<b>Discount Schedule</b>	ODE2
<b>GTIN</b>	3606489779207
<b>Returnability</b>	Yes
<b>Country of origin</b>	MX

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	5.39 in (13.7 cm)
<b>Package 1 Width</b>	2.13 in (5.4 cm)
<b>Package 1 Length</b>	3.50 in (8.9 cm)
<b>Package weight(Lbs)</b>	2.899 lb(US) (1.315 kg)



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

Carbon footprint (kg CO2 eq, Total Life cycle)	126
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
REACh Regulation	<a href="#">REACh Declaration</a>

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](http://www.P65Warnings.ca.gov)

Halogen content performance	Halogen free product
PVC free	Yes

## Use Again

### Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No

## Technical Illustration

## Dimensions

