

Product data sheet

Characteristics

BDA24050Y4

Circuit breaker, PowerPact B, 50A, 2 pole, 480Y/277VAC, 18kA, I-Line, thermal magnetic, 80%, BC



Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 050
Product or Component Type	Circuit breaker
Device Application	Distribution

Complementary

Line Rated Current	50 A
Number of Poles	2P
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 10 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	25 KA 220...240 V AC 50/60 Hz IEC 60947-2 18 KA 500...525 V AC 50/60 Hz IEC 60947-2 25 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 14...AWG 2/0 aluminium/copper
Local signalling	Presence of auxiliary contacts flag green)
Mounting mode	I-Line
Electrical connection	I-Line connection, line Lugs, load
Mounting height	3.00 in (76.2 mm)
Tightening torque	31.86...38.94 Lbf.in (3.6...4.4 N.m) 0.00...0.01 in ² (2.5...6 mm ²) (AWG 14...AWG 10) 44.25...54.87 lbf.in (5...6.2 N.m) 0.02...0.11 in ² (10...70 mm ²) (AWG 8...AWG 2/0)
Number of slots	1 auxiliary switch OF plug-in)[RETURN]1 voltage release MN or MX plug-in)
Power wire stripping length	0.79 in (20 mm)

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Color	Gray RAL 7016)
9 mm pitches	6
Height	5.39 in (137 mm)
Width	2.13 in (54 mm)
Depth	3.50 in (89 mm)
Net Weight	2.10 lb(US) (0.952 kg)
Quantity per Set	Set of 1
Phase connection	BC
Circuit breaker application	HACR rated

Environment

Quality labels	CE
Standards	NEMA AB1 UL 489 EN/IEC 60947-5-1 EN/IEC 60947-2 GB 14048.2 NMX J-266 CSA C22.2 No 5
Product certifications	UL[RETURN]IEC[RETURN]CCC[RETURN]EAC[RETURN]CSA[RETURN]NOM
IP degree of protection	Front cover IP40 IEC 60529
IK degree of protection	IK07 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	01133-BDA I-LINE BREAKER
Discount Schedule	DE2
GTIN	3606481151872
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.80 in (12.2 cm)
Package 1 Width	8.11 in (20.6 cm)
Package 1 Length	12.52 in (31.8 cm)
Package 1 Weight	3.15 lb(US) (1.43 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: DIPN, 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
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes
Halogen content performance	Halogen free product