Product data sheet
Characteristics

BDF46110
Circuit breaker, PowerPacT B, 110A, 4 pole, 600Y/347VAC, 14kA, terminal nut, thermal magnetic, 80%

Main

Range	PowerPact
Product name	PowerPact B
Device short name	BD 110
Product or component type	Circuit breaker
Device application	Distribution

Complementary

[In] rated current	110 A
Poles description	4P
Protected poles description	4t
Control type	Toggle
Breaking capacity code	D
Breaking capacity	25 KA at 208Y/120 V AC 50/60 Hz conforming to UL 489 18 KA at 240 V AC 50/60 Hz conforming to UL 489 Icu 25 kA at 480/277 V AC 50/60 Hz conforming to UL 489 Icu 14 kA at 480 V AC 50/60 Hz conforming to UL 489 18 KA at 600Y/347 V AC 50/60 Hz conforming to UL 489 14 KA at 250 V DC conforming to UL 489 25 KA Icu 18 kA
[Ue] rated operational voltage	525 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 14 KA at 500...525 V AC 50/60 Hz conforming to IEC 60947-2 18 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 18 KA at 440 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 K ed 5.2
Electrical durability	10000 Cycles conforming to IEC 947-1 Annex K ed 5.2 at 440 V In
Connection pitch	27 Mm

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AWG gauge	AWG 14...AWG 8 aluminium/copper AWG 6...AWG 3/0 aluminium/copper
Local signalling	Presence of auxiliary contacts: flag (green)
Mounting mode	Clip-on (35 mm symmetrical DIN rail) By screws (plate)
Electrical connection	Terminal nut, ON and OFF end
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)
Number of slots	1 slot(s) for auxiliary switch OF (plug-in) 1 slot(s) for voltage release MN or MX (plug-in) 1 slot(s) for alarm switch SD (plug-in)
Wire stripping length	20 Mm
Colour	Grey (RAL 7016)
9 mm pitches	12
Height	137 Mm
Width	108 Mm
Depth	80 Mm
Net weight	1.241 Kg
Quantity per set	Set of 1
Circuit breaker application	HACR rated

Environment

Quality labels	CE
Standards	EN/IEC 60947-2 NEMA AB1 UL 489 EN/IEC 60947-5-1 NMX J-266 CSA C22.2 No 5 GB 14048.2
Product certifications	UL[RETURN]IEC[RETURN]CCC[RETURN]EAC[RETURN]CSA[RETURN]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	11.43 Cm
Package 1 Width	12.7 Cm
Package 1 Length	20.32 Cm
Package 1 Weight	1.814 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
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
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Product Life Status :	Commercialised