Product data sheet

Specifications



heavy duty PowerLogic PFC Capacitor, 41.7/50 kvar - 400 V - 50/60Hz

BLRCH417A500B40

Main

Range	PowerLogic
Range of product	PowerLogic
Product or component type	Heavy duty capacitor
Product name	PowerLogic PFC Capacitor
Network frequency	50/60 Hz
Series name	HDuty
Network harmonic content	<= 20 %
Electrical parameters	37.6 kvar 380 V 50 Hz 45.1 kvar 380 V 60 Hz 41.7 kvar 400 V 50 Hz 50 kvar 400 V 60 Hz 44.9 kvar 415 V 50 Hz 53.8 kvar 415 V 60 Hz
Maximum permissible voltage	1.1 x Un (8 hours over 24 hours)
continuous overcurrent capacity	1.8 x In
Rated voltage	380…415 V AC 50/60 Hz

Complementary

Dielectric losses	< 0.2 W/kvar
Power losses	< 0.5 W/kVAr
Capacitance tolerance	- 5 % to 10 %
Voltage test	2.15 x Un AC between terminals for 10 s <= 660 V - 3 kV AC between terminal and container for 10 s >= 660 V - 6 kV AC between terminal and container for 10 s
Inrush current	250 x In
Maximum switching operation per year	7000
Service life in hours	130000 h
Dielectric material	Metallized polypropylene film with Zn/Al alloy, special resistivity & profile, special edge (wave cut)
Impregnation material	Non-PCB dry PUR resin Biodegradable
Type of installation	Indoor installation
Connections - terminals	ClampTite terminal
Mounting mode	Upright/horizontal
Diameter	136 mm
Height	321 mm

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

Net weight	5.3 kg

Environment

Standards	IEC 60831-1 IEC 60831-2
IP degree of protection	IP00
Operating altitude	2000 m
Temperature class	D
Ambient air temperature for operation	-25…55 °C
Relative humidity	95 %

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18.000 cm
Package 1 Width	18.000 cm
Package 1 Length	39.000 cm
Package 1 Weight	5.360 kg
Unit Type of Package 2	S06
Number of Units in Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	79.320 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

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

Total lifecycle Carbon footprint	**104 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**74 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**9 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**8 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**14 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**

Energy efficiency

Product contributes to saved and avoided emissions	**Yes**

Use Again

Repack and remanufacture

Recyclability potential, in %	**20**
End of life manual availability	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**