

Product data sheet

Characteristics

ABL8DCC12020

converter module 24 W - 24..28.8 V DC, 12 V DC - 2 A - for regulated SMPS



Main

Range of product	Phaseo Universal
Product or component type	Converter module
Rated power in W	24 W
Input voltage	24...28.8 V DC
Output voltage	12 V DC
Power supply output current	2 A

Complementary

Input voltage limits	22...30 V
Efficiency	82 %
Power dissipation in W	4 W
Input protection type	Against reverse polarity
Output voltage limits	7...15 V
Line and load regulation	1...3 %
Residual ripple	<= 100 mV
Output protection type	Against overload, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 7.8 V, automatic reset Against short-circuits, protection technology: automatic reset
Connections - terminals	For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm ² AWG 24...AWG 10 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm ² AWG 24...AWG 10
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Operating altitude	2000 m
Name of test	Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5 level 2 Conducted/Radiated emissions conforming to EN 55022 class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3
Local signalling	1 LED (green) output voltage (> 6 V):
Net weight	0.3 kg

Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...90 % during operation 0...95 % during storage
Overvoltage category	Class 3

Vibration resistance	2 gn (f= 11.9...150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to EN/IEC 61131-2
Dielectric strength	500 V between input and ground 500 V between input and output 500 V between output and ground
Product certifications	RCM EAC CCSAus UL
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to IEC 61204

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	601 g
Package 1 Height	6.5 cm
Package 1 width	14.5 cm
Package 1 Length	16.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	18
Package 2 Weight	12.161 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

Offer Sustainability

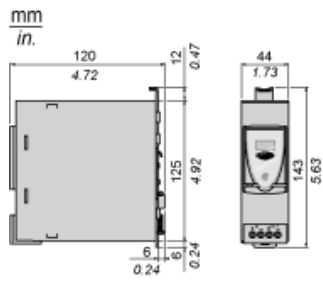
Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes

Contractual warranty

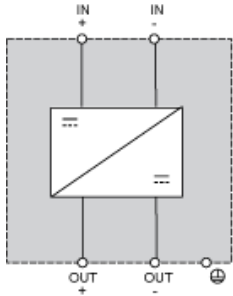
Warranty	18 months
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Converter Module

Dimensions



Internal Wiring Diagram



Scheme of Use with ABL4 Power Supplies

