

Product data sheet

Characteristics

ABL8FEQ24100

rectified and filtered power supply - 1 or 2-phase - 400 V AC - 24 V - 10 A



Main

Range of product	Phaseo Rectified
Product or component type	Power supply
Power supply type	Rectified and filtered
Rated power in W	240 W
Nominal input voltage	230 V AC single phase, terminal(s): N-L1 400 V AC phase to phase, terminal(s): L1-L2
Output voltage	24 V DC
Power supply output current	10 A
Anti-harmonic filter	Low frequency harmonic currents
Product certifications	CULus EAC UL 508 KC

Complementary

Network frequency limits	47...63 Hz
Input voltage limits	360...440 V 207...253 V
Power Factor	0.783 at 230 V 0.834 at 400 V
Efficiency	80 %
Power dissipation in W	48 W
Output coupling	Series Parallel
Output protection type	Against overvoltage, protection technology: 2 J peak limiter Against overload and short-circuits, protection technology: external fuse, 12 A
Hold-up time	15 ms
Status LED	1 LED (green)output voltage 1 LED (orange)input voltage
Residual ripple	<= 1200 MV
Connections - terminals	For input connection: screw type terminals, connection capacity: 5 x 2.5...5 x 4 mm ² AWG 14...AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 2.5...1 x 4 mm ² AWG 14...AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm ² AWG 11
Depth	185 mm
Height	153 mm
Width	123 mm
Net weight	7.66 kg
Compatibility code	ABL8F

Environment

IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Relative humidity	0...95 % without condensation or dripping water
Operating altitude	3000 m
Safety class	Class I conforming to VDE 0106-1

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Dielectric strength	2000 V between input and ground 4600 V between input and output 500 V between output and ground
Other environmental characteristic	EMC conforming to IEC 62041 Safety conforming to EN/IEC 61558-2-6 Safety conforming to UL 508 Safety conforming to UL 60950-1 EMC conforming to EN/IEC 61000-3-2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	8.112 kg
Package 1 Height	15 cm
Package 1 width	26.5 cm
Package 1 Length	27 cm
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Weight	203.188 kg
Package 2 Height	80 cm
Package 2 width	80 cm
Package 2 Length	60 cm

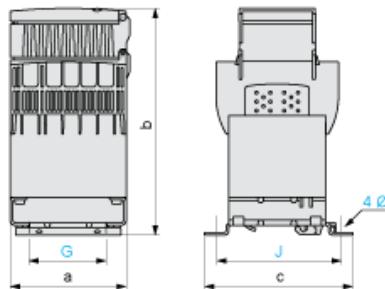
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
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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Dimensions



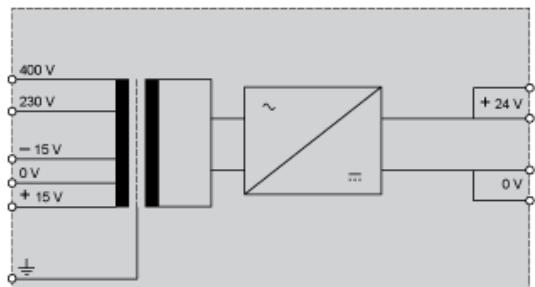
Dimensions in mm

a	b	c	G	J	Ø
123	185	153	82	136	6.5

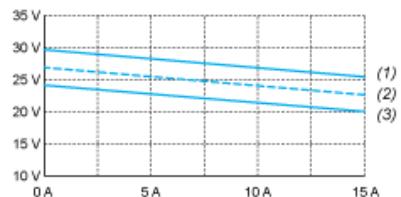
Dimensions in in.

a	b	c	G	J	Ø
4.84	7.28	6.02	3.23	5.35	0.25

Internal Wiring Diagram



Load Limits Curve



(1) Nominal line supply + 10%
(2) Nominal line supply
(3) Nominal line supply - 10%