

ABL8FEQ24010

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



Main

Range of product	Phaseo Rectified
Product or component type	Power supply
Power supply type	Rectified and filtered
Rated power in W	24 W
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	1 A
Operating position	Horizontal at 40 °C Vertical at 60 °C

Complementary

Input voltage limits	207...253 V 360...440 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Inrush current	0.97 A at 400 V 1.68 A at 230 V
Cos phi	0.764 at 230 V 0.905 at 400 V
Efficiency	75 %
Power dissipation in W	6 W
Residual ripple	<= 1200 mV
Holding time	15 ms
Output protection type	Against overload and short-circuits, protection technology: internal fuse, 1 A, 5 x 20 mm, T curve Against overvoltage, protection technology: 2 J peak limiter
Connections - terminals	Screw type terminals for input connection, connection capacity: 5 x 2.5...5 x 4 mm ² AWG 14...AWG 11 Screw type terminals for input ground connection, connection capacity: 1 x 2.5...1 x 4 mm ² AWG 14...AWG 11 Screw type terminals for output connection, connection capacity: 4 x 2.5...4 x 4 mm ² AWG 14...AWG 11
Marking	CE
Fixing mode	By 4 screws By clips on 35 mm symmetrical DIN rail
Output coupling	Parallel Series
Operating altitude	3000 m
Name of test	Conducted/radiated emissions conforming to EN 55011 class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 50081-1 Emission conforming to EN 61000-6-3 Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5
Status LED	1 LED green for output voltage 1 LED orange for input voltage
Depth	124 mm
Height	108 mm
Width	87 mm
Product weight	1.3 kg

Environment

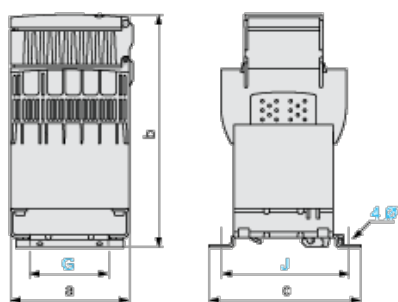
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product certifications	CULus UL 508 EAC KC
environmental characteristic	EMC conforming to IEC 62041 Safety conforming to EN/IEC 61558-2-6 Safety conforming to UL 508 Safety conforming to UL 60950-1 EMC conforming to EN/IEC 61000-3-2
IP degree of protection	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
electrical shock protection class	Class I conforming to VDE 0106-1
vibration resistance	0.05 mm (f = 47...57 Hz) conforming to IEC 60068-1 0.7 gn (f = 13.9...47 Hz) conforming to IEC 60068-1 1 gn (f = 57...150 Hz) conforming to IEC 60068-1 1 mm (f = 3...13.9 Hz) conforming to IEC 60068-1
dielectric strength	2000 V between input and ground 4600 V between input and output 500 V between output and ground

Contractual warranty

Warranty period	18 months
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Dimensions



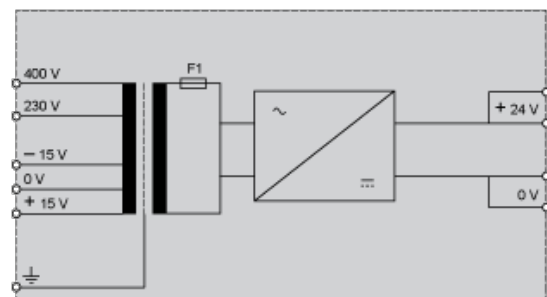
Dimensions in mm

a	b	c	G	J	Ø
87	124	108	60	96	5.5

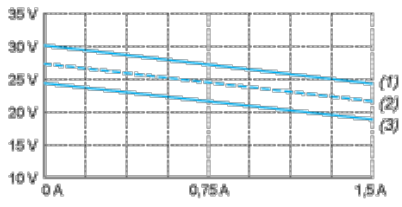
Dimensions in in.

a	b	c	G	J	Ø
3.42	4.88	4.25	2.36	3.78	0.22

Internal Wiring Diagram



Load Limits Curve



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