

# Product data sheet

## Characteristics

# ABL8FEQ24040

rectified and filtered power supply - 1 or 2-phase - 400 V AC - 24 V - 4 A



### Main

Range of product	Phaseo Rectified
Product or component type	Power supply
Power supply type	Rectified and filtered
Rated power in W	96 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	4 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	5.2 A at 400 V 9 A at 230 V
Cos phi	0.689 at 230 V 0.867 at 400 V
Efficiency	75 %
Power dissipation in W	24 W
Residual ripple	≤ 1200 mV
Holding time	14 ms
Output protection type	Against overload and short-circuits , protection technology: internal fuse , 4 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 <sup>2</sup> AWG gauge14...11 Screw type terminals for input ground connection , connection capacity: 1 x 2.5...1 x 4 mm <sup>2</sup> AWG gauge14...11 Screw type terminals for output connection , connection capacity: 4 x 2.5...4 x 4 mm <sup>2</sup> AWG gauge14...11
Marking	CE
Fixing mode	By 4 screws By clips on 35 mm symmetrical DIN rail
Output coupling	Parallel Series
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 61000-6-3 Emission conforming to EN 50081-1 Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5
Status LED	1 LED orange for input voltage 1 LED green for output voltage
Product weight	2.9 kg

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## Environment

Product certifications	ENEC CULus
Environmental characteristic	EMC conforming to IEC 62041 EMC conforming to EN/IEC61000-3-2 Safety conforming to EN/IEC 61558-2-6 Safety conforming to UL 60950-1 Safety conforming to UL 508
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
Class of protection against electric shock	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	500 V between output and ground 2000 V between input and ground 4600 V between input and output
RoHS EUR conformity date	0501
RoHS EUR status	Compliant