Product datasheet

Specifications

To be discontinued

rectified and filtered power supply - 1 or 2-phase - 400 V AC - 24 V - 0.5 A

ABL8FEQ24005

To be discontinued on: Dec 31, 2025 AD

To be end-of-service on: Dec 31, 2026 AD

Main

Range of product	Modicon Rectified
Product or component type	Power supply
Power supply type	Rectified and filtered
Rated power in W	12 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	0.5 A
Anti-harmonic filter	Low frequency harmonic currents
Product certifications	UL 508 cULus KC EAC

Complementary

Network frequency limits	47…63 Hz
Input voltage limits	207...253 V 360...440 V
Power Factor	0.656 at 230 V 0.881 at 400 V
Efficiency	71 %
Power dissipation in W	3.48 W
Output coupling	Parallel Series
Output protection type	Against overload and short-circuits, protection technology: internal fuse, 0.5 A, 5 x 20 mm, T curve Against overvoltage, protection technology: 2 J peak limiter
Hold-up time	17 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 mm² AWG 14...AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 2.5...1 x 4 mm² AWG 14...AWG 11 For output connection: screw type terminals, connection capacity: 4 x 2.5...4 x 4 mm² AWG 14...AWG 11

Depth	123.0 mm
Height	108 mm
width	87 mm
Net weight	1.28 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
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
Safety class	Class I conforming to VDE 0106-1
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 Height	25.500 cm
Package 1 Width	18.500 cm
Package 1 Length	11.500 cm
Package 1 Weight	1.607 kg
Unit Type of Package 2	P06
Number of Units in Package 2	30
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	61.210 kg

Contractual warranty

Warranty	18 months

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.

How this information helps you

Environmental footprint

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	93c35204-c30d-4a1c-be25-b7657ea12b91
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

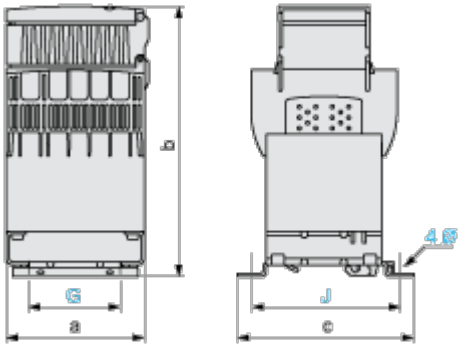
Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions



Dimensions in mm

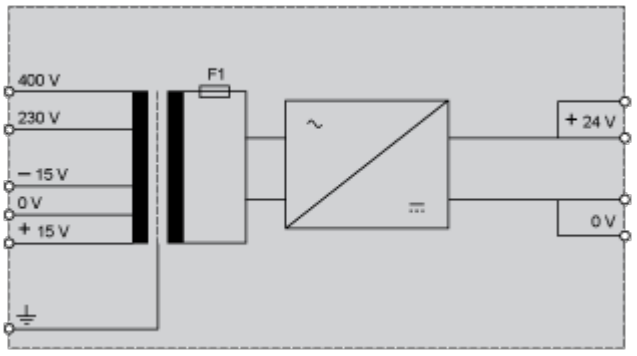
a	b	c	G	J	Ø
87	124	108	60	96	5.5

Dimensions in in.

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

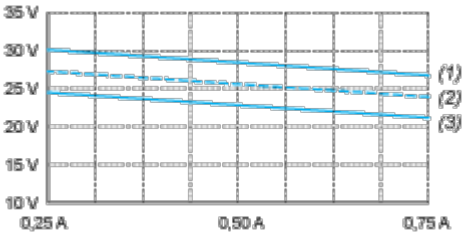
Connections and Schema

Internal Wiring Diagram



Performance Curves

Load Limits Curve



(1) Nominal line supply + 10%

(2) Nominal line supply

(3) Nominal line supply - 10%

Image of product / Alternate images

Alternative