

# Product datasheet

Specifications



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

ABL8FEQ24020

## Main

Range of product	Modicon Rectified
Product or component type	Power supply
Power supply type	Rectified and filtered
Rated power in W	48 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	2 A
Anti-harmonic filter	Low frequency harmonic currents
Product certifications	cULus KC EAC UL 508

## Complementary

Network frequency limits	47...63 Hz
Input voltage limits	207...253 V 360...440 V
Power Factor	0.737 at 230 V 0.863 at 400 V
Efficiency	75 %
Power dissipation in W	12 W
Output coupling	Parallel Series
Output protection type	Against overload and short-circuits, protection technology: internal fuse, 2 A, 5 x 20 mm, T curve Against overvoltage, protection technology: 2 J peak limiter
Hold-up time	14 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	141.0 mm

Height	108 mm
Width	87 mm
Net weight	2.02 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

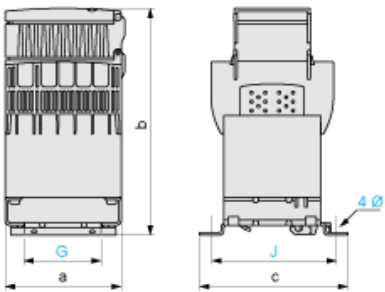
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	18.8 cm
Package 1 Length	25.8 cm
Package 1 Weight	2.342 kg
Unit Type of Package 2	P06
Number of Units in Package 2	30
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	83.26 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

Circularity Profile	<a href="#">End of Life Information</a>
PVC free	Yes
Contractual warranty	
Warranty	18 months

Dimensions



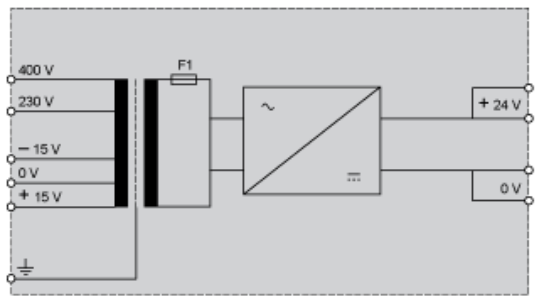
Dimensions in mm

a	b	c	G	J	Ø
87	142	108	60	96	5.5

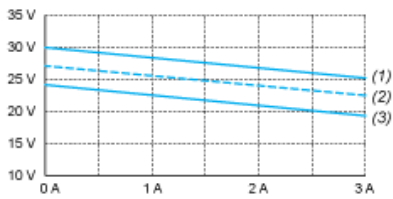
Dimensions in in.

a	b	c	G	J	Ø
3.42	5.59	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%

Recommended replacement(s)