

# Product data sheet

Specifications



## rectified and filtered power supply - 1 or 2-phase - 400 V AC - 24 V - 6 A

ABL8FEQ24060

⚠ To be discontinued on: Dec 20, 2024

⚠ To be end-of-service on: Dec 20, 2025

⚠ To be discontinued

### Main

|                             |   |
|-----------------------------|---|
| Range of product            | Modicon Rectified   |
| product or component type   | Power supply  |
| Power supply type           | Rectified and filtered  |
| Rated power in W            | 144 W   |
| Nominal input voltage       | 230 V AC single phase, terminal(s): N-L1<br>400 V AC phase to phase, terminal(s): L1-L2 |
| Output voltage              | 24 V DC   |
| Power supply output current | 6 A   |
| Anti-harmonic filter        | Low frequency harmonic currents   |
| Product certifications      | KC<br>UL 508<br>EAC<br>cULus  |

### Complementary

|                          |  |
|--------------------------|--|
| network frequency limits | 47...63 Hz   |
| Input voltage limits     | 207...253 V<br>360...440 V   |
| Power Factor             | 0.781 at 230 V<br>0.86 at 400 V  |
| Efficiency               | 75 %   |
| Power dissipation in W   | 36 W   |
| Output coupling          | Series<br>Parallel   |
| Output protection type   | Against overload and short-circuits, protection technology: internal fuse, 6.3 A, 5 x 20 mm, T curve<br>Against overvoltage, protection technology: 2 J peak limiter   |
| Hold-up time             | 14 ms  |
| Status LED               | 1 LED (green) output voltage<br>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<br>For input ground connection: screw type terminals, connection capacity: 1 x 2.5...1 x 4 mm² AWG 14...AWG 11<br>For output connection: screw type terminals, connection capacity: 4 x 2.5...4 x 4 mm² AWG 14...AWG 11 |
| Depth                    | 153.0 mm   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                    |          |
|--------------------|----------|
| Height             | 152.0 mm |
| Width              | 123 mm   |
| net weight         | 4.91 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   |
| Dielectric strength                   | 2000 V between input and ground<br>4600 V between input and output<br>500 V between output and ground  |
| Other environmental characteristic    | EMC conforming to IEC 62041<br>Safety conforming to EN/IEC 61558-2-6<br>Safety conforming to UL 508<br>Safety conforming to UL 60950-1<br>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             | 27.500 cm  |
| Package 1 Width              | 26.500 cm  |
| Package 1 Length             | 15.100 cm  |
| Package 1 Weight             | 5.474 kg   |
| Unit Type of Package 2       | P06        |
| Number of Units in Package 2 | 24         |
| Package 2 Height             | 75.000 cm  |
| Package 2 Width              | 60.000 cm  |
| Package 2 Length             | 80.000 cm  |
| Package 2 Weight             | 138.916 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Sustainability

**Green Premium™** label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

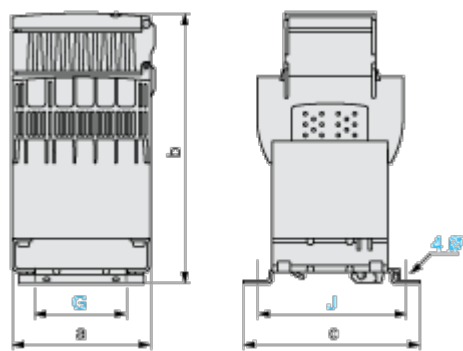
✓ Pvc Free

## Certifications & Standards

|                           |   |
|---------------------------|---|
| Reach Regulation          | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive         | Pro-active compliance (Product out of EU RoHS legal scope)  |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile       | <a href="#">End of Life Information</a>   |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

Dimensions



Dimensions in mm

| a   | b   | c   | G  | J   | Ø   |
|-----|-----|-----|----|-----|-----|
| 123 | 153 | 153 | 82 | 136 | 6.5 |

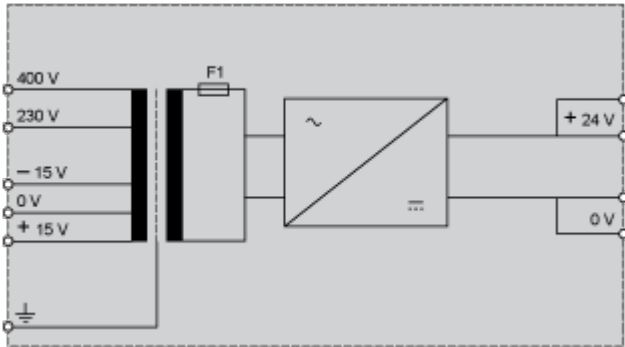
Dimensions in in.

| a    | b    | c    | G    | J    | Ø    |
|------|------|------|------|------|------|
| 4.84 | 6.02 | 6.02 | 3.23 | 5.35 | 0.25 |

Connections and Schema

Internal Wiring Diagram

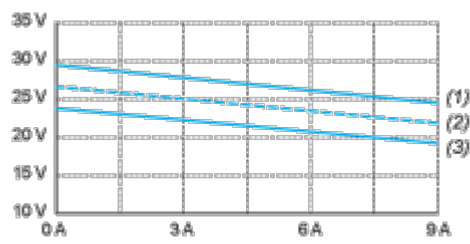
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Performance Curves

Load Limits Curve

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