## Product data sheet Characteristics

## ABL8FEQ24040

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



Local distributor code: 389706559



## Main

| Range of product            | Modicon 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  |   |
| Anti-harmonic filter        | Low frequency harmonic currents  |   |
| Product certifications      | CULus<br>KC<br>UL 508<br>EAC   |   |

#### Complementary

| Complementary            | 47. 00.11   |
|--------------------------|---|
| Network frequency limits | 4763 Hz   |
| Input voltage limits     | 360440 V  |
|                          | 207253 V  |
| Cos phi                  | 0.689 at 230 V  |
|                          | 0.867 at 400 V  |
| Efficiency               | 75 %  |
| Power dissipation in W   | 24 W  |
| Output coupling          | Series  |
|                          | Parallel  |
| 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  |
| Holding 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 2.55 x 4 m-<br>m² AWG 14AWG 11 |
|                          | For input ground connection: screw type terminals, connection capaci-                               |
|                          | ty: 1 x 2.51 x 4 mm² AWG 14AWG 11   |
|                          | For output connection: screw type terminals, connection capaci-                                     |
|                          | ty: 4 x 2.54 x 4 mm <sup>2</sup> AWG 14AWG 11   |
| Depth                    | 164.0 Mm  |
|                          |   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherended as a substitute for and is not to be used for determining suitability or reliability of these products by specific base applications. It is the dourn arise and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| Height             | 108 Mm  |  |
|--------------------|---------|--|
| Width              | 87 Mm   |  |
| Net weight         | 2.98 Kg |  |
| Compatibility code | ABL8F   |  |

## Environment

| IP degree of protection               | IP20 conforming to EN/IEC 60529   |  |
|---------------------------------------|---|--|
| Ambient air temperature for operation | -2060 °C  |  |
| Ambient air temperature for storage   | -4080 °C  |  |
| Relative humidity                     | 095 % without condensation or dripping water  |  |
| Operating altitude                    | 3000 m  |  |
| Vibration resistance                  | 0.05 mm (f= 4757 Hz) conforming to IEC 60068-1<br>0.7 gn (f= 13.947 Hz) conforming to IEC 60068-1<br>1 gn (f= 57150 Hz) conforming to IEC 60068-1<br>1 mm (f= 313.9 Hz) conforming to IEC 60068-1 |  |
| Electrical shock protection 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   |  |
| 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 Weight             | 3.22 Kg  |
| Package 1 Height             | 11.5 Cm  |
| Package 1 width              | 18.5 Cm  |
| Package 1 Length             | 25.5 Cm  |
| Unit Type of Package 2       | P06      |
| Number of Units in Package 2 | 30       |
| Package 2 Weight             | 109.6 Kg |
| Package 2 Height             | 73.5 Cm  |
| Package 2 width              | 60.0 Cm  |
| Package 2 Length             | 80.0 Cm  |
|                              |          |

## Offer Sustainability

| Sustainable offer status   | Green Premium product  |  |  |
|----------------------------|--|--|--|
| REACh Regulation           | ☑ REACh Declaration  |  |  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |  |  |
| Mercury free               | Yes  |  |  |
| RoHS exemption information | ₫Yes   |  |  |
| China RoHS Regulation      | China RoHS Declaration   |  |  |
| Environmental Disclosure   | Product Environmental Profile  |  |  |
| Circularity Profile        | ☐ End Of Life Information  |  |  |
| PVC free                   | Yes  |  |  |
| PVC free                   | Yes  |  |  |

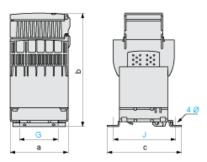
## Contractual warranty

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

# Product data sheet Dimensions Drawings

## ABL8FEQ24040

## Dimensions



#### Dimensions in mm

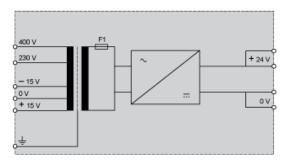
| а  | b   | С   | G  | J  | Ø   |
|----|-----|-----|----|----|-----|
| 87 | 165 | 108 | 60 | 96 | 5.5 |

#### Dimensions in in.

| а    | b    | С    | G    | J    | Ø    |
|------|------|------|------|------|------|
| 3.42 | 6.50 | 4.25 | 2.36 | 3.78 | 0.22 |

## ABL8FEQ24040

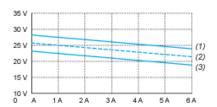
## Internal Wiring Diagram



## Product data sheet Performance Curves

## ABL8FEQ24040

## Load Limits Curve



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

Product Life Status: Commercialised