Product datasheet





voltage transformer - 230 V - 1 x 24 V - 160 VA

ABT7ESM016B

Modicon Transformer Economic

Safety and isolation transformer

Discontinued on: Mar 28, 2024

! To be discontinued

Main

Marking

Range Of Product

Product Or Component Type

| | curety and isolation durisonnel |
|---------------------------------------|---|
| Rated Power In Va | 160 VA |
| Input Voltage | 230 V AC phase to phase, terminal(s): L1-L2 230 V AC single phase, terminal(s): N-L1 |
| Output Voltage | 24 V AC |
| Secondary Winding | Single |
| Protective Cover | Without |
| Ambient Air Temperature For Operation | -2040 °C |
| Complementary | |
| Input Voltage Limits | 207253 V |
| Network Frequency Limits | 4763 Hz |
| Input Voltage Tolerance | +/- 15 V |
| Efficiency | 87 % |
| Power Dissipation In W | 23.9 W |
| Voltage Variation At Nominal Load | 6.12 % at 230 V |
| Output Sustained Overvoltage | 0,075 (no load, hot state) |
| Maximum Voltage Drop At Rated Load | 7.42 % |
| No Load Losses | 9.6 W |
| Short-Circuit Voltage | 9 % |
| Output Protection Type | Against overload, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection Against overvoltage, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection Against short-circuits, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection |
| Connections - Terminals | For input connection: screw type terminals, connection capacity: 4 x 2.54 x 4 mm ² AWG 14AWG 11 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

4 mm² AWG 14...AWG 11

AWG 14...AWG 11

CE

For input ground connection: screw type terminals, connection capacity: 1 x 2.5...1 x

For output connection: screw type terminals, connection capacity: 2 x 2.5...2 x 4 $\,\mathrm{mm^2}$



| Fixing Mode | By 4 screws diameter: 5 mm on vertical panel, operating position: vertical | | | | |
|-----------------------------|--|--|--|--|--|
| | By 4 screws diameter: 5 mm on horizontal panel with derating to 90 %, operating position: horizontal By clips (with mounting plate) on 35 mm symmetrical DIN rail | | | | |
| | | | | | |
| | By 4 screws diameter: 5 mm on vertical panel | | | | |
| Operating Altitude | 3000 m | | | | |
| Electrical Insulation Class | Class B | | | | |
| Width | 97.0 mm | | | | |
| Height | 91.0 mm | | | | |
| Depth | 105.0 mm | | | | |
| Net Weight | 2.69 kg | | | | |

Environment

| Product Certifications | EAC DNV-GL |
|-------------------------------------|--|
| Ip Degree Of Protection | IP20 |
| Environmental Characteristic | EMC conforming to EN 62041 Safety conforming to EN 61558-1 Safety conforming to EN 61558-2-6 |
| Ambient Air Temperature For Storage | -4080 °C |
| Relative Humidity | 095 % during operation |
| Overvoltage Category | Class I conforming to VDE 0106-1 |
| Dielectric Strength | 3200 V between input and ground 3200 V between output and ground 5100 V between input and output |

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 | 14.800 cm |
| Package 1 Weight | 3.040 kg |
| Unit Type Of Package 2 | P06 |
| Number Of Units In Package 2 | 22 |
| Package 2 Height | 75.000 cm |
| Package 2 Width | 60.000 cm |
| Package 2 Length | 80.000 cm |
| Package 2 Weight | 79.880 kg |

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

| ② | Mercury Free | |
|----------|----------------------------|-----|
| | Rohs Exemption Information | Yes |
| | Pvc Free | |

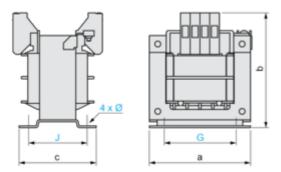
Certifications & Standards

| Reach Regulation | REACh Declaration | | | |
|---------------------------------|---|--|--|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | | | |
| China Rohs Regulation | China RoHS declaration | | | |
| Environmental Disclosure | Product Environmental Profile | | | |
| Circularity Profile | No need of specific recycling operations Circularity Profile | | | |

ABT7ESM016B

Dimensions Drawings

Dimensions



Dimensions in mm

| а | b | С | G | J | Ø |
|----|-----|----|----|----|-----|
| 97 | 105 | 91 | 84 | 75 | 5.8 |

Dimensions in in.

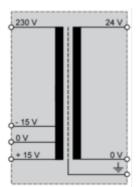
| Dimonologic in in. | | | | | |
|--------------------|------|------|------|------|------|
| а | b | С | G | J | Ø |
| 3.82 | 4.13 | 3.58 | 3.31 | 2.95 | 0.23 |

Product datasheet

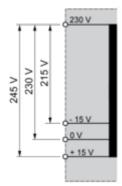
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Connections and Schema

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

