

Product datasheet

Specifications



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

ABT7ESM016B

Price: 2,661.98 ZAR

Main

Range Of Product	Modicon Transformer Economic
Product Or Component Type	Safety and isolation transformer
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	-20...40 °C

Complementary

Input Voltage Limits	207...253 V
Network Frequency Limits	47...63 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 2.5...4 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: 2 x 2.5...2 x 4 mm² AWG 14...AWG 11
Marking	CE

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

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	-40...80 °C
Relative Humidity	0...95 % 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
----------	-----------

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-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

✓

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](#)

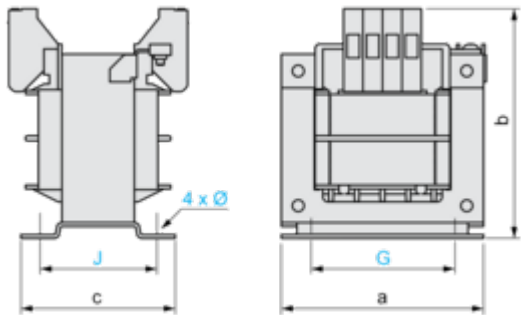
Circularity Profile

No need of specific recycling operations

[Circularity Profile](#)

Dimensions Drawings

Dimensions



Dimensions in mm

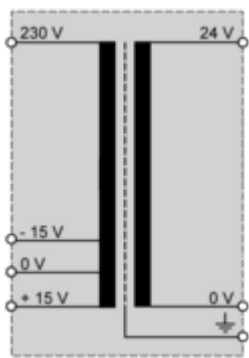
a	b	c	G	J	Ø
97	105	91	84	75	5.8

Dimensions in in.

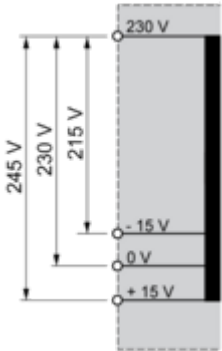
a	b	c	G	J	Ø
3.82	4.13	3.58	3.31	2.95	0.23

Connections and Schema

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

