

Product datasheet

Specifications

voltage transformer - 230 V - 1 x 24 V - 250 VA



ABT7ESM025B

⚠ Discontinued on: 3 Apr 2025

⚠ End-of-service on: 31 Dec 2025

⚠ Discontinued

Main

Range of product	Modicon Transformer Economic
rated power in VA	250 VA
Product or component type	Safety and isolation transformer
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	89 %
Power dissipation in W	30.9 W
Voltage variation at nominal load	5.04 % at 230 V
Output sustained overvoltage	0,063 (no load, hot state)
Maximum voltage drop at rated load	6.25 %
No load losses	12.3 W
Short-circuit voltage	0,083
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
Fixing mode	By 4 screws diameter: 5 mm on vertical panel, operating position: horizontal 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 %

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

Operating altitude	3000 m
Electrical insulation class	Class B
Width	97.0 mm
Height	105.0 mm
Depth	105.0 mm
Product weight	3.54 kg

Environment

Product certifications	EAC DNV-GL
IP degree of protection	IP20
Environmental characteristic	EMC conforming to IEC 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	3.908 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	98.976 kg

Logistical informations

Country of origin	CZ
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Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

SCIP Number	93c35204-c30d-4a1c-be25-b7657ea12b91
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



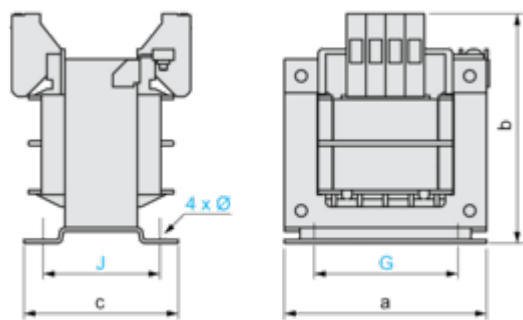
Repack and remanufacture

End of life manual availability	No need of specific recycling operations
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WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Dimensions Drawings

Dimensions



Dimensions in mm

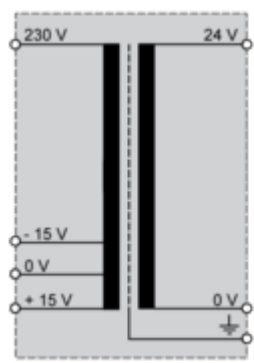
a	b	c	G	J	Ø
97	105	105	84	86	5.8

Dimensions in in.

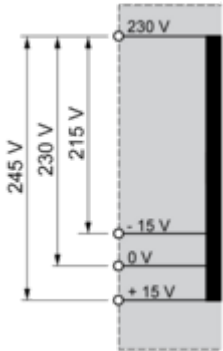
a	b	c	G	J	Ø
3.82	4.13	4.13	3.31	3.39	0.23

Connections and Schema

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

