



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

ABT7ESM025B

- ! To be discontinued on: 01-Jun-2024
- ! To be end-of-service on: 01-Jun-2025

! To be discontinued

#### Main

Range Of Product	Modicon Transformer Economic			
Product Or Component Type	Safety and isolation transformer			
Rated Power In Va	250 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

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Input Voltage Limits	207253 V
Network Frequency Limits	4763 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 2.54 x 4 mm² AWG 14AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 2.51 x 4 mm² AWG 14AWG 11 For output connection: screw type terminals, connection capacity: 2 x 2.52 x 4 mm² AWG 14AWG 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 %
Operating Altitude	3000 m
Electrical Insulation Class	Class B
Width	97.0 mm
Height	105.0 mm
Depth	105.0 mm
Net Weight	3.54 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	3.908 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

## **Contractual warranty**

Warranty 18 months



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

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Transparency RoHS/REACh

#### Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

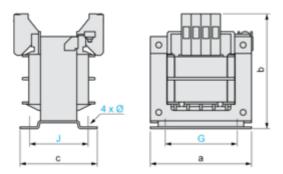
#### **Certifications & Standards**

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

## ABT7ESM025B

#### **Dimensions Drawings**

#### **Dimensions**



#### Dimensions in mm

а	b	С	G	J	Ø
97	105	105	84	86	5.8

#### Dimensions in in.

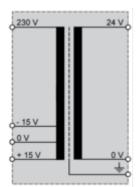
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а	b	С	G	J	Ø
3.82	4.13	4.13	3.31	3.39	0.23

## **Product datasheet**

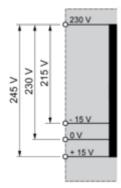
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Connections and Schema

#### Internal Scheme



#### Primary Voltage Wiring



#### **Secondary Voltage Wiring**

