



# voltage transformer - 230 V- 1 x 24 V - 100 VA

ABT7ESM010B

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



#### Main

Range Of Product	Modicon Transformer Economic		
Product Or Component Type	Safety and isolation transformer		
Rated Power In Va	100 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	83 %
Power Dissipation In W	20.5 W
Voltage Variation At Nominal Load	9.25 % at 230 V
Output Sustained Overvoltage	0,102 (no load, hot state)
Maximum Voltage Drop At Rated Load	11.04 %
No Load Losses	6.7 W
Short-Circuit Voltage	0,113
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
	CE

17-Apr-2024

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	85.0 mm
Height	87.0 mm
Depth	95.0 mm
Net Weight	1.91 kg

## **Environment**

<b>Product Certifications</b>	EAC DNV-GL	
Ip Degree Of Protection	IP20	
<b>Environmental Characteristic</b>	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	18.200 cm
Package 1 Width	12.500 cm
Package 1 Length	15.000 cm
Package 1 Weight	2.097 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	57
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	132.529 kg

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



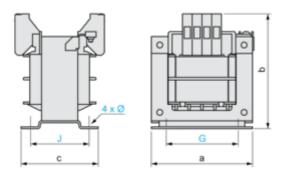
#### **Certifications & Standards**

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		

## ABT7ESM010B

#### **Dimensions Drawings**

#### **Dimensions**



#### Dimensions in mm

а	b	С	G	J	Ø
85	95	87	64	67	4.8

#### Dimensions in in.

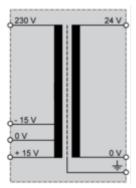
а	b	С	G	J	Ø
3.35	3.74	3.43	2.52	2.64	0.19

## **Product datasheet**

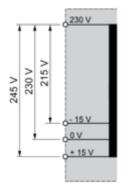
## ABT7ESM010B

Connections and Schema

#### Internal Scheme



#### Primary Voltage Wiring



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#### **Secondary Voltage Wiring**

