# **Product datasheet**





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

Local distributor code: 389706847

ABT7ESM016B

! To be discontinued on: 30 May 2024

! To be end-of-service on: 30 May 2025

EAN Code: 3389119400794

#### 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	-2040 °C			

#### Complementary

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 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

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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



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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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

### Well-being performance



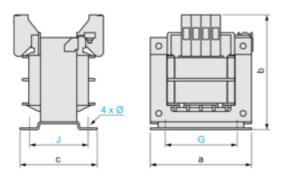
#### **Certifications & Standards**

Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)			
Eu Rohs Directive				
China Rohs Regulation	China RoHS declaration			
<b>Environmental Disclosure</b>	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.

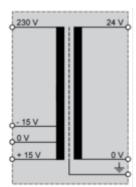
Difficiono in in.					
а	b	С	G	J	Ø
3.82	4.13	3.58	3.31	2.95	0.23

## **Product datasheet**

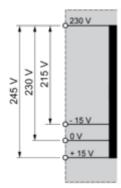
## ABT7ESM016B

Connections and Schema

### Internal Scheme



### Primary Voltage Wiring



### **Secondary Voltage Wiring**



25 Apr 2024