

Product datasheet

Specifications



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

Local distributor code: 389706847 ABT7ESM016B

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: external Against overvoltage, protection technology: external Against short-circuits, protection technology: external
Connections - terminals	For input connection: screw type terminals, connection capacity: 4 x 2.5...4 x 4 mm ² AWG 14...AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 2.5...1 x 4 mm ² AWG 14...AWG 11 For output connection: screw type terminals, connection capacity: 2 x 2.5...2 x 4 mm ² AWG 14...AWG 11
Marking	CE
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	2.72 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 Weight	3.04 kg
Package 1 Height	14.8 cm
Package 1 width	18.5 cm
Package 1 Length	25.5 cm
Unit Type of Package 2	P06
Number of Units in Package 2	22
Package 2 Weight	79.88 kg
Package 2 Height	73.5 cm
Package 2 width	60 cm
Package 2 Length	80 cm

Offer Sustainability

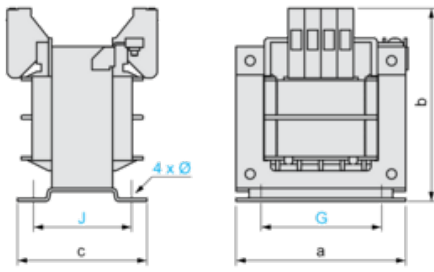
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
PVC free	Yes

Contractual warranty

Warranty

18 months

Dimensions



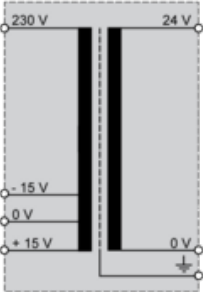
Dimensions in mm

a	b	c	G	J	Ø
96	105	91	84	75	5.8

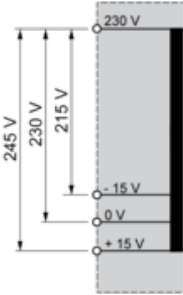
Dimensions in in.

a	b	c	G	J	Ø
3.78	4.13	3.58	3.31	2.95	0.23

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

