



### Main

Range of product	Modicon Transformer Optimized
Product or component type	Safety and isolation transformer
Rated power in VA	40 VA
Input voltage	230 V AC single phase, terminal(s): N-L1 400 V AC phase to phase, terminal(s): L1-L2
Output voltage	12 V AC
Secondary winding	Single
Protective cover	Without
Ambient air temperature for operation	-20...50 °C

### Complementary

Input voltage limits	360...440 V 207...253 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Efficiency	81 %
Power dissipation in W	9.4 W
Output sustained overvoltage	14 % (no load, hot state)
Maximum voltage drop at rated load	0 %
No load losses	4.4 W
Short-circuit voltage	0,1213
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: 5 x 4 mm <sup>2</sup> AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG 11 For output connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 11

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

Marking	CE
Fixing mode	By 4 screws diameter: 4.8 mm on vertical panel, operating position: horizontal By 4 screws diameter: 4.8 mm on vertical panel, operating position: vertical By clips (with mounting plate) on 35 mm symmetrical DIN rail By 4 screws diameter: 4.8 mm on horizontal panel with derating to 90 %
Operating altitude	3000 m
Electrical insulation class	Class B
Width	78.0 mm
Height	68.0 mm
Depth	90.0 mm
Product weight	1.1 kg

## Environment

Product certifications	UR EAC DNV-GL
Standards	UL 506
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
Protective treatment	TC
Ambient air temperature for storage	-40...80 °C
Overvoltage category	Class I conforming to VDE 0106-1
Dielectric strength	2000 V between winding and ground 4000 V between primary and secondary

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.318 kg
Package 1 Height	12.5 cm
Package 1 width	15 cm
Package 1 Length	18.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Weight	7.865 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm
Package 3 Height	73.5 cm

## Offer Sustainability

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

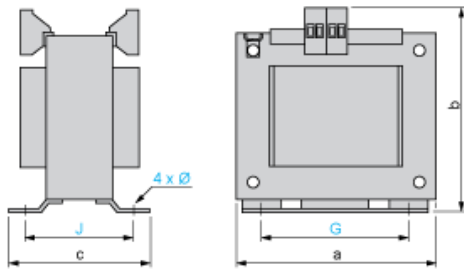
Contractual warranty

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Warranty	18 months
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Dimensions



Dimensions in mm

a	b	c	G	J	Ø
78	90	68	56	47.5	4.8

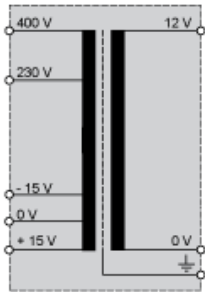
Dimensions in in.

a	b	c	G	J	Ø
3.07	3.54	2.68	2.20	1.87	0.19

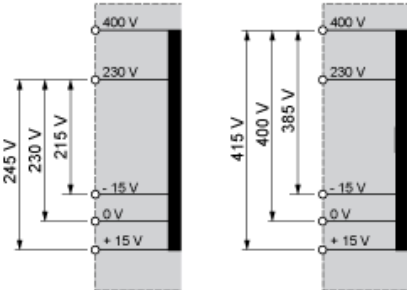
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Internal Scheme

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Primary Voltage Wiring



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Secondary Voltage Wiring

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