

## Main

Range of product	Modicon Transformer Universal
Product or component type	Safety and isolation transformer
Rated power in VA	160 VA
Input voltage	230 V AC single phase, terminal(s): N-L1 400 V AC phase to phase, terminal(s): L1-L2
Output voltage	115/230 V AC
Secondary winding	Double
Protective cover	With
Ambient air temperature for operation	-20...60 °C

## Complementary

Input voltage limits	360...440 V 207...253 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Efficiency	88 %
Power dissipation in W	21.8 W
Voltage variation at nominal load	0,033 at 400 V 0,0339 at 230 V
Output sustained overvoltage	0,025 (no load, hot state)
Maximum voltage drop at rated load	3.61 %
No load losses	9.53 W
Short-circuit voltage	0,067
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

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.

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: 4 x 4 mm<sup>2</sup> AWG 11

Marking	CE
Fixing mode	By 4 screws diameter: 6.5 mm on vertical panel, operating position: horizontal By 4 screws diameter: 6.5 mm on vertical panel, operating position: vertical By clips on 35 x 15 mm symmetrical DIN rail By 4 screws diameter: 6.5 mm on horizontal panel with derating to 90 %
Output coupling	Parallel Series by internal jumper Grounding of secondary
Operating altitude	3000 m
Electrical insulation class	Class B
Status LED	1 LED (orange)input voltage
Width	123.0 mm
Height	153.0 mm
Depth	128.0 mm
Product weight	4.38 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 61558-2-4
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	4.919 kg
Package 1 Height	15.1 cm
Package 1 width	26.5 cm
Package 1 Length	27 cm
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Weight	126.556 kg
Package 2 Height	77 cm
Package 2 width	60 cm
Package 2 Length	80 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>

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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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PVC free	Yes
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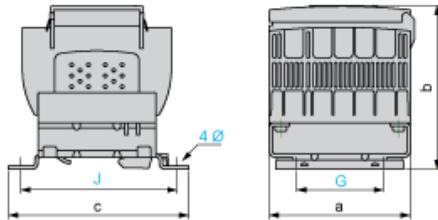
### Contractual warranty

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Warranty	18 months
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Dimensions



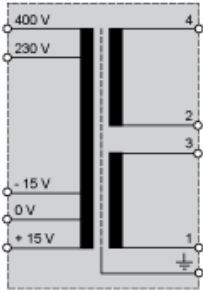
Dimensions in mm

a	b	c	G	J	Ø
123	128	153	82	136	6.5

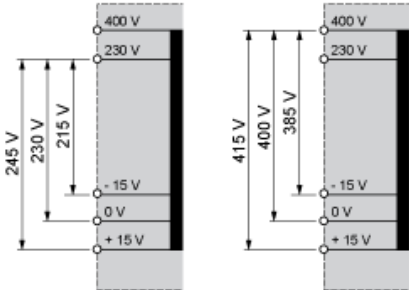
Dimensions in in.

a	b	c	G	J	Ø
4.84	5.04	6.02	3.23	5.35	0.25

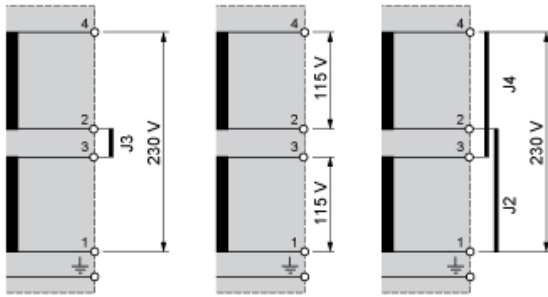
## Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



J2, J3, J4 Internal Jumper