



## Main

Range of product	Modicon Universal
Product or component type	Safety and isolation transformer
Rated power in VA	1600 VA
Input voltage	230 V AC single phase, terminal(s): N-L1 400 V AC phase to phase, terminal(s): L1-L2
Output voltage	24/48 V AC
Secondary winding	Double
Protective cover	Without
Ambient air temperature for operation	-20...60 °C

## Complementary

Input voltage limits	207...253 V 360...440 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Efficiency	94 %
Power dissipation in W	102.1 W
Voltage variation at nominal load	0,027 at 230 V 0,0329 at 400 V
Output sustained overvoltage	0,028 (no load, hot state)
Maximum voltage drop at rated load	3.71 %
No load losses	26.33 W
Short-circuit voltage	0,04
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: 4 x 16 mm <sup>2</sup> AWG 4
Marking	CE
Fixing mode	By 4 screws diameter: 7 mm on vertical panel, operating position: horizontal By 4 screws diameter: 7 mm on vertical panel, operating position: vertical By 4 screws diameter: 7 mm on horizontal panel with derating to 90 %
Output coupling	Parallel Grounding of secondary Series by internal jumper
Operating altitude	3000 m
Electrical insulation class	Class F
Width	174 mm
Height	223 mm
Depth	167 mm
Net weight	20 kg

## Environment

Product certifications	UR EAC
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
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

Package 1 Weight	20.880 kg
Package 1 Height	2.100 dm
Package 1 width	3.100 dm
Package 1 Length	2.600 dm

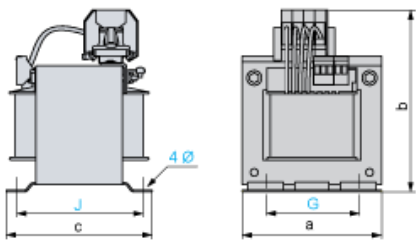
## Offer Sustainability

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

Warranty	18 months
----------	-----------

Dimensions



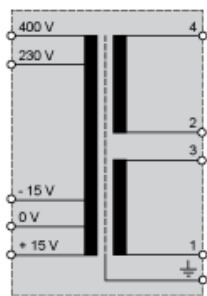
Dimensions in mm

a	b	c	G	J	Ø
174	223	167	135	141	7

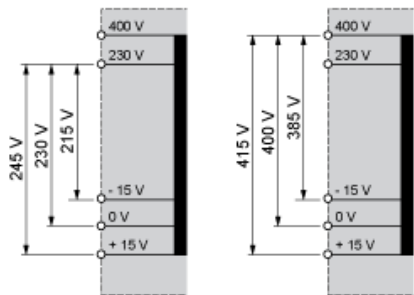
Dimensions in in.

a	b	c	G	J	Ø
6.85	8.78	6.57	5.31	5.55	0.27

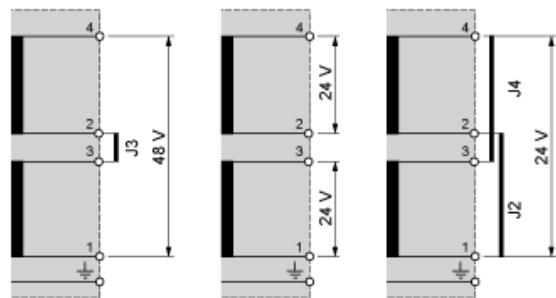
Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



J2, Internal Jumper  
J3,  
J4