



## Main

Range of product	Phaseo Universal
Product or component type	Safety and isolation transformer
Rated power in VA	320 VA
Input voltage	400 V AC phase to phase, terminal(s): L1-L2 230 V AC single phase, terminal(s): N-L1
Output voltage	24/48 V AC
Secondary winding	Double
Protective cover	With
Ambient air temperature for operation	-20...60 °C

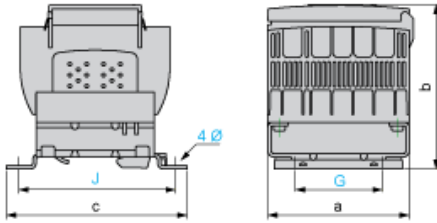
## Complementary

Input voltage limits	207...253 V 360...440 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Efficiency	91 %
Power dissipation in W	31.6 W
Voltage variation at nominal load	0,0358 at 400 V 0,0312 at 230 V
Output sustained overvoltage	0,023 (no load, hot state)
Voltage drop at rated load	2.79 %
No load losses	15.1 W
Short-circuit voltage	0,067
Output protection type	Against short-circuits, protection technology: external Against overvoltage, protection technology: external Against overload, protection technology: external
Connections - terminals	Screw type terminals for output connection, connection capacity: 4 x 4 mm <sup>2</sup> AWG gauge11 Screw type terminals for input ground connection, connection capacity: 1 x 4 mm <sup>2</sup> AWG gauge11 Screw type terminals for input connection, connection capacity: 5 x 4 mm <sup>2</sup> AWG gauge11
Marking	CE
Fixing mode	By 4 screws, screw(s) Ø = 6.5 mm on vertical panel, operating position: vertical By 4 screws, screw(s) Ø = 6.5 mm on vertical panel, operating position: horizontal By 4 screws, screw(s) Ø = 6.5 mm on horizontal panel with derating to 90 %
Output coupling	Grounding of secondary Parallel Series by internal jumper
Electrical insulation class	Class B
Status LED	1 LED orange for input voltage
Product weight	7.1 kg

## Environment

Product certifications	CURus ENEC
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	-40...80 °C
Relative humidity	0...95 % during operation
Class of protection against electric shock	Class I conforming to VDE 0106-1
Dielectric strength	5100 V between input and output 3200 V between output and ground 3200 V between input and ground

Dimensions



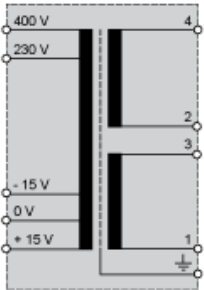
Dimensions in mm

a	b	c	G	J	Ø
123	160	153	82	136	6.5

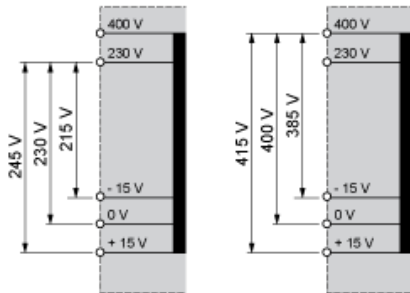
Dimensions in in.

a	b	c	G	J	Ø
4.84	6.30	6.02	3.23	5.35	0.25

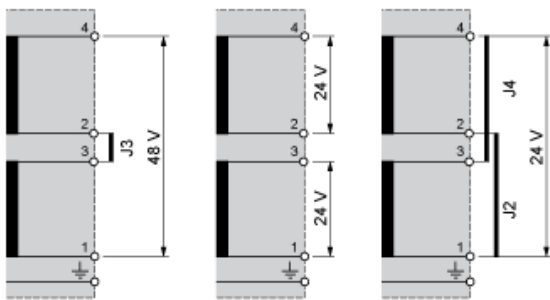
Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



J2, Internal Jumper  
J3,  
J4