



## Main

Range of product	Phaseo 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

## 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	2.7 % at 230 V 3.29 % at 400 V
Output sustained overvoltage	2.8 % (no load, hot state)
Voltage drop at rated load	3.71 %
No load losses	26.33 W
Short-circuit voltage	4.00 %
Output protection type	Against overload , protection technology: external Against overvoltage , protection technology: external Against short-circuits , protection technology: external
Connections - terminals	Screw type terminals for input connection , connection capacity: 5 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 output connection , connection capacity: 4 x 16 mm <sup>2</sup> AWG gauge4
Marking	CE
Fixing mode	By 4 screws , screw(s) # = 7 mm on vertical panel , operating position: vertical By 4 screws , screw(s) # = 7 mm on vertical panel , operating position: horizontal By 4 screws , screw(s) # = 7 mm on horizontal panel with derating to 90 %
Output coupling	Grounding of secondary Parallel Series by internal jumper
Electrical insulation class	Class F
Product weight	20 kg

## Environment

Product certifications	ENEC CURus
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-20...60 °C
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	3200 V between input and ground 3200 V between output and ground 5100 V between input and output
RoHS EUR conformity date	0501
RoHS EUR status	Compliant