



Main

Range of product	Phaseo 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	24/48 V AC
Secondary winding	Double
Protective cover	With

Complementary

Input voltage limits	207...253 V 360...440 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	3.16 % at 400 V 3.29 % at 230 V
Output sustained overvoltage	2.4 % (no load, hot state)
Voltage drop at rated load	2.83 %
No load losses	14.32 W
Short-circuit voltage	6.80 %
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 ² AWG gauge11 Screw type terminals for input ground connection , connection capacity: 1 x 4 mm ² AWG gauge11 Screw type terminals for output connection , connection capacity: 4 x 4 mm ² AWG gauge11
Marking	CE
Fixing mode	By 4 screws , screw(s) # = 6.5 mm on vertical panel , operating position: vertical By 4 screws , screw(s) # = 6.5 mm on vertical panel , operating position: horizontal By 4 screws , screw(s) # = 6.5 mm on horizontal panel with derating to 90 % By clips on 35 x 15 mm symmetrical DIN rail
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	4.4 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