



### Main

Range of product	Phaseo Optimum
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 V AC
Secondary winding	Single
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	88 %
Power dissipation in W	21.8 W
Output sustained overvoltage	6 % (no load, hot state)
Voltage drop at rated load	0.7 %
No load losses	9.1 W
Short-circuit voltage	6.65 %
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: 2 x 4 mm <sup>2</sup> AWG gauge11
Marking	CE
Fixing mode	By 4 screws , screw(s) # = 5.8 mm on vertical panel , operating position: vertical By 4 screws , screw(s) # = 5.8 mm on vertical panel , operating position: horizontal By 4 screws , screw(s) # = 5.8 mm on horizontal panel with derating to 90 %
Electrical insulation class	Class B
Product weight	3.2 kg

### Environment

Product certifications	UR
IP degree of protection	IP20 conforming to EN/IEC 60529
Protective treatment	TC
Ambient air temperature for operation	-20...50 °C
Ambient air temperature for storage	-40...80 °C
Class of protection against electric shock	Class I conforming to VDE 0106-1
Dielectric strength	2000 V between winding and ground 4000 V between primary and secondary
RoHS EUR conformity date	0623
RoHS EUR status	Compliant