



### Main

Range of product	Phaseo Optimum
Product or component type	Safety and isolation transformer
Rated power in VA	1000 VA
Input voltage	230 V AC single phase, terminal(s): N-L1 400 V AC phase to phase, terminal(s): L1-L2
Output voltage	230 V AC
Secondary winding	Single
Protective cover	Without
Ambient air temperature for operation	-20...50 °C

### Complementary

Input voltage limits	360...440 V 207...253 V
Network frequency limits	47...63 Hz
Input voltage tolerance	+/- 15 V
Efficiency	94 %
Power dissipation in W	63.8 W
Output sustained overvoltage	3 % (no load, hot state)
Voltage drop at rated load	5 %
No load losses	26.5 W
Short-circuit voltage	0,0324
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 11 Screw type terminals for input ground connection, connection capacity: 1 x 4 mm <sup>2</sup> AWG 11 Screw type terminals for output connection, connection capacity: 2 x 4 mm <sup>2</sup> AWG 11
Marking	CE
Fixing mode	By 4 screws, screw(s) Ø = 7 mm on horizontal panel with derating to 90 %

By 4 screws, screw(s) Ø = 7 mm on vertical panel, operating position: horizontal  
By 4 screws, screw(s) Ø = 7 mm on vertical panel, operating position: vertical

Operating altitude	3000 m
Electrical insulation class	Class B
Product weight	14.3 kg

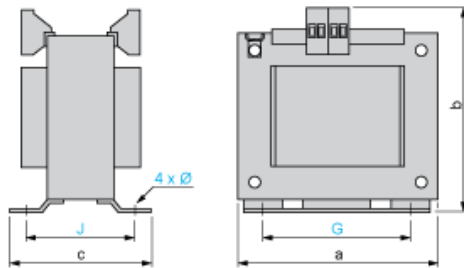
## Environment

Product certifications	EAC UR
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
Protective treatment	TC
Ambient air temperature for storage	-40...80 °C
Overvoltage category	Class I conforming to VDE 0106-1
Dielectric strength	2000 V between winding and ground 4000 V between primary and secondary

## Contractual warranty

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

Dimensions



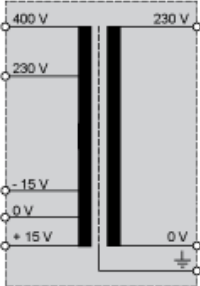
Dimensions in mm

a	b	c	G	J	Ø
174	163	138	135	111.5	7

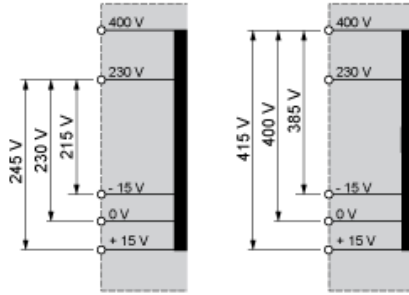
Dimensions in in.

a	b	c	G	J	Ø
6.85	6.42	5.43	5.31	4.39	0.27

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

