



Main

Range of product	Modicon Optimized
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	12 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	88 %
Power dissipation in W	21.8 W
Output sustained overvoltage	7 % (no load, hot state)
Maximum voltage drop at rated load	0.4 %
No load losses	9.1 W
Short-circuit voltage	0,069
Output protection type	Against overload, protection technology: external Against overvoltage, protection technology: external Against short-circuits, protection technology: external
Connections - terminals	For input connection: screw type terminals, connection capacity: 5 x 4 mm ² AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 4 mm ² AWG 11 For output connection: screw type terminals, connection capacity: 2 x 4 mm ² AWG 11
Marking	CE

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Fixing mode	By 4 screws diameter: 5.8 mm on vertical panel, operating position: horizontal By 4 screws diameter: 5.8 mm on vertical panel, operating position: vertical By 4 screws diameter: 5.8 mm on horizontal panel with derating to 90 %
Operating altitude	3000 m
Electrical insulation class	Class B
Width	106 mm
Height	112 mm
Depth	81 mm
Net weight	3.2 kg

Environment

Product certifications	UR EAC
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	3.114 kg
Package 1 Height	19 cm
Package 1 width	16.2 cm
Package 1 Length	17.4 cm
Unit Type of Package 2	P06
Number of Units in Package 2	30
Package 2 Weight	106.51 kg
Package 2 Height	76 cm
Package 2 width	80 cm
Package 2 Length	60 cm

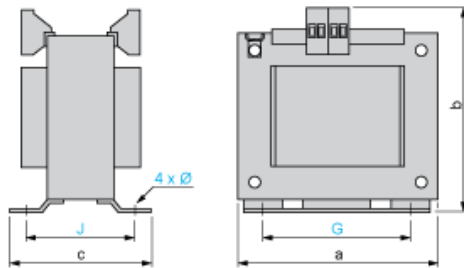
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
PVC free	Yes

Contractual warranty

Warranty	18 months
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Dimensions



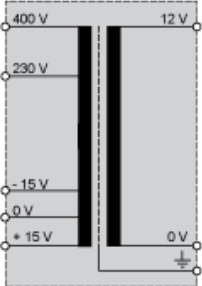
Dimensions in mm

a	b	c	G	J	Ø
105	112	80	80.5	63	4.8

Dimensions in in.

a	b	c	G	J	Ø
4.13	4.41	3.15	3.17	2.48	0.19

Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring

