

Product data sheet

Specifications



voltage transformer - 230..400 V - 1 x 230 V - 2500 VA

ABL6TS250U

! To be discontinued on: 01 June 2023

! To be end-of-service on: 01 June 2025

! To be discontinued

Main

Range of product Modicon Transformer Optimized

Product or component type Safety and isolation transformer

Rated power in VA 2500 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 207...253 V
360...440 V

Network frequency limits 47...63 Hz

Input voltage tolerance +/- 15 V

Efficiency 96 %

Power dissipation in W 104.2 W

Output sustained overvoltage 3 % (no load, hot state)

Maximum voltage drop at rated load 0 %

No load losses 23.4 W

Short-circuit voltage 0.0873

Output protection type Against overload, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection
Against overvoltage, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection
Against short-circuits, protection technology: with additional protection fuses or circuit-breakers in Selection of Protection

Connections - terminals For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11
For output connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 11
For input connection: screw type terminals, connection capacity: 8 x 4 mm² AWG 11

Marking CE

Fixing mode By 4 screws diameter: 10 mm on vertical panel, operating position: horizontal
By 4 screws diameter: 10 mm on vertical panel, operating position: vertical

By 4 screws diameter: 10 mm on horizontal panel with derating to 90 %

Operating altitude	3000 m
Electrical insulation class	Class B
Width	196.0 mm
Height	147.0 mm
Depth	322.0 mm
Net weight	25.67 kg

Environment

Product certifications	UR EAC DNV-GL
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 61558-2-4
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 Height	40.000 cm
Package 1 Width	59.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	34.600 kg

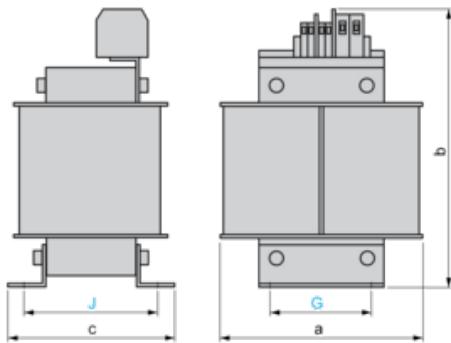
Offer Sustainability

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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
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Dimensions



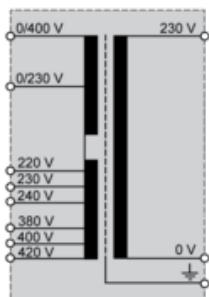
Dimensions in mm

a	b	c	G	J	Ø
196	322	147	125	117	10

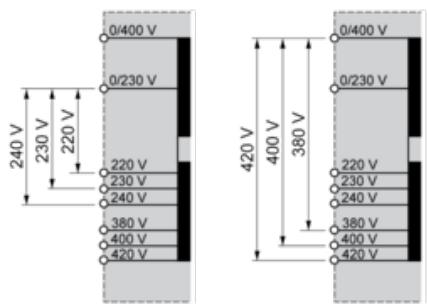
Dimensions in in.

a	b	c	G	J	Ø
7.72	12.68	5.79	4.92	4.61	0.39

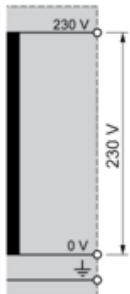
Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



Recommended replacement(s)