

Product data sheet

Specifications



voltage transformer - 230..400 V - 1 x 230 V - 1600 VA

ABL6TS160U

! 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	1600 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	96 %
Power dissipation in W	66.7 W
Output sustained overvoltage	3 % (no load, hot state)
Maximum voltage drop at rated load	0 %
No load losses	23.7 W
Short-circuit voltage	0,0265
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 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
Fixing mode	By 4 screws diameter: 7 mm on vertical panel, operating position: horizontal By 4 screws diameter: 7 mm on vertical panel, operating position: vertical

By 4 screws diameter: 7 mm on horizontal panel with derating to 90 %

Operating altitude	3000 m
Electrical insulation class	Class B
Width	174.0 mm
Height	169.0 mm
Depth	163.0 mm
Net weight	19.96 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	31 cm
Package 1 Width	40 cm
Package 1 Length	40 cm
Package 1 Weight	21.408 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	91.7 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
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
PVC free	Yes

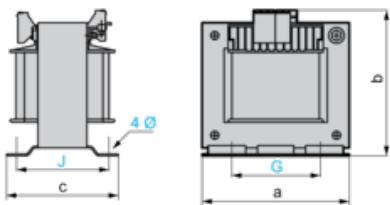
California proposition 65

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

Dimensions



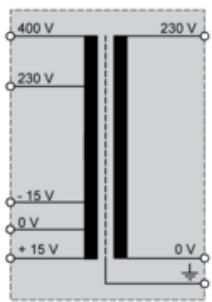
Dimensions in mm

a	b	c	G	J	Ø
174	163	169	135	141	7

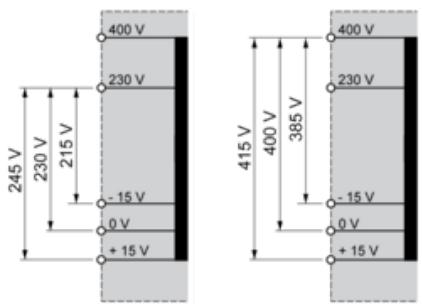
Dimensions in in.

a	b	c	G	J	Ø
6.85	6.42	6.65	5.31	5.55	0.27

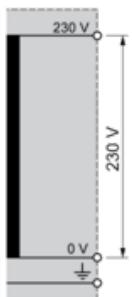
Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



Recommended replacement(s)