

Product data sheet

Specifications



voltage transformer - 230..400 V - 2 x 24 V - 160 VA

ABT7PDU016B

! 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 Universal
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	24/48 V AC
Secondary winding	Double
Protective cover	With
Ambient air temperature for operation	-20...60 °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
Voltage variation at nominal load	0,0316 at 400 V 0,0329 at 230 V
Output sustained overvoltage	0,024 (no load, hot state)
Maximum voltage drop at rated load	2.83 %
No load losses	14.32 W
Short-circuit voltage	0,068
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: 4 x 4 mm ² AWG 11

Marking	CE
Fixing mode	By 4 screws diameter: 6.5 mm on vertical panel, operating position: horizontal By 4 screws diameter: 6.5 mm on vertical panel, operating position: vertical By clips on 35 x 15 mm symmetrical DIN rail By 4 screws diameter: 6.5 mm on horizontal panel with derating to 90 %
Output coupling	Series by internal jumper Grounding of secondary Parallel
Operating altitude	3000 m
Electrical insulation class	Class B
Status LED	1 LED (orange) input voltage
Width	123.0 mm
Height	153.0 mm
Depth	127.0 mm
Net weight	4.46 kg

Environment

Product certifications	EAC UR 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 61558-2-6
Ambient air temperature for storage	-40...80 °C
Relative humidity	0...95 % during operation
Overvoltage category	Class I conforming to VDE 0106-1
Dielectric strength	3200 V between input and ground 3200 V between output and ground 5100 V between input and output

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27 cm
Package 1 Width	26.5 cm
Package 1 Length	15.1 cm
Package 1 Weight	5.034 kg
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	129.34 kg

Offer Sustainability

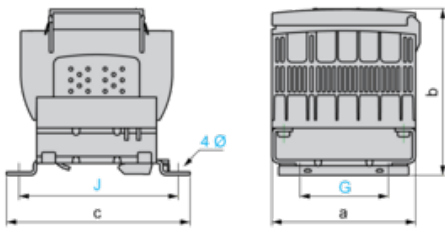
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration

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



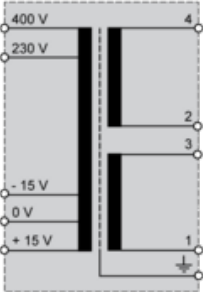
Dimensions in mm

a	b	c	G	J	Ø
123	127	153	82	136	6.5

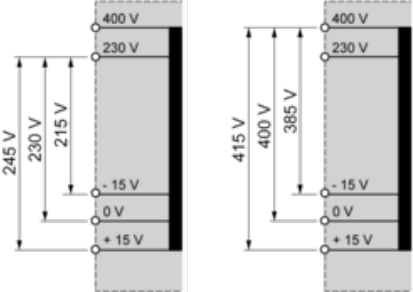
Dimensions in in.

a	b	c	G	J	Ø
4.84	5.00	6.02	3.23	5.35	0.25

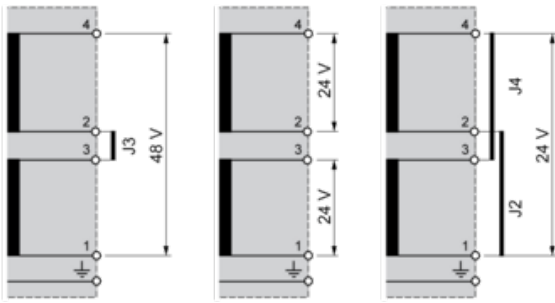
Internal Scheme



Primary Voltage Wiring



Secondary Voltage Wiring



J2, J3, J4 Internal Jumper

Recommended replacement(s)