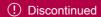




voltage transformer - 230..400 V - 2 x 24 V - 250 VA

ABT7PDU025B

- ! Discontinued on: 5 Apr 2023
- ! To be end-of-service on: 1 June 2025



Main

Range Of Product	Modicon Transformer Universal			
Product Or Component Type	Safety and isolation transformer			
Rated Power In Va	250 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	-2060 °C			

Complementary

breakers in Selection of Protection Against overvoltage, protection technology: with additional protection fuses or cir 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 mm² AWG For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG	Complementary	
Input Voltage Tolerance +/- 15 V Efficiency 90 % Power Dissipation In W 27.8 W Voltage Variation At Nominal Load 3 % at 400 V 0,0312 at 230 V Output Sustained Overvoltage 0,021 (no load, hot state) Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 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 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11	Input Voltage Limits	
Efficiency 90 % Power Dissipation In W 27.8 W Voltage Variation At Nominal Load 3 % at 400 V 0,0312 at 230 V Output Sustained Overvoltage 0,021 (no load, hot state) Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11	Network Frequency Limits	4763 Hz
Power Dissipation In W 27.8 W Voltage Variation At Nominal Load 3 % at 400 V 0,0312 at 230 V Output Sustained Overvoltage 0,021 (no load, hot state) Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 mm² AWG For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG	Input Voltage Tolerance	+/- 15 V
Voltage Variation At Nominal Load 3 % at 400 V 0,0312 at 230 V Output Sustained Overvoltage 0,021 (no load, hot state) Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 mm² AWG For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG Tor output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG	Efficiency	90 %
Output Sustained Overvoltage 0,021 (no load, hot state) Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 mm² AWC For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWC	Power Dissipation In W	27.8 W
Maximum Voltage Drop At Rated Load No Load Losses 14.68 W Short-Circuit Voltage O,065 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 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AW	Voltage Variation At Nominal Load	
Load No Load Losses 14.68 W Short-Circuit Voltage 0,065 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 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11	Output Sustained Overvoltage	0,021 (no load, hot state)
Short-Circuit Voltage 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 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11	. · ·	2.5 %
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 mm² AWG For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG	No Load Losses	14.68 W
breakers in Selection of Protection Against overvoltage, protection technology: with additional protection fuses or cir 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 mm² AWG For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG	Short-Circuit Voltage	0,065
For input ground connection: screw type terminals, connection capacity: 1 x 4 min AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AW	Output Protection Type	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
Marking CE	Connections - Terminals	For input connection: screw type terminals, connection capacity: 5 x 4 mm² AWG 11 For input ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 11 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 11
		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 4 screws diameter: 6.5 mm on horizontal panel with derating to 90 %			
Output Coupling	Series by internal jumper Parallel Grounding of secondary			
Operating Altitude	3000 m			
Electrical Insulation Class	Class B			
Status Led	1 LED (orange) input voltage			
Width	123.0 mm			
Height	152.0 mm			
Depth	141.0 mm			
Net Weight	5.68 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	-4080 °C	
Relative Humidity	095 % during operation	
Overvoltage Category	egory 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

PCE
1
27.000 cm
26.000 cm
15.100 cm
6.226 kg
P06
24
75.000 cm
60.000 cm
80.000 cm
157.924 kg

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

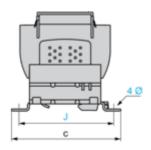
Certifications & Standards

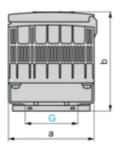
Reach Regulation	REACh Declaration				
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations Circularity Profile				

ABT7PDU025B

Dimensions Drawings

Dimensions





Dimensions in mm

а	b	С	G	J	Ø
123	141	152	82	136	6.5

Dimensions in in.

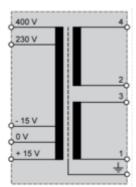
а	b	С	G	J	Ø
4.84	5.55	5.98	3.23	5.35	0.25

Product datasheet

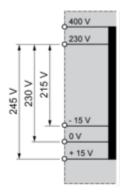
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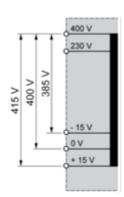
Connections and Schema

Internal Scheme

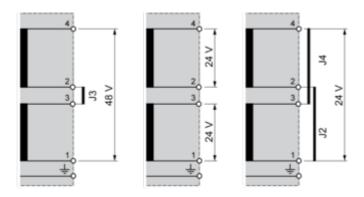


Primary Voltage Wiring





Secondary Voltage Wiring



J2, J3, J4 Internal Jumper