PHS SERIES

Phase Control



Description

The PHS Series is an ideal method of changing lamp intensity, varying the speed of a fan/motor, or controlling the temperature of a heater. The effective output voltage is adjusted with an accessory external potentiometer suitable for line voltage applications.

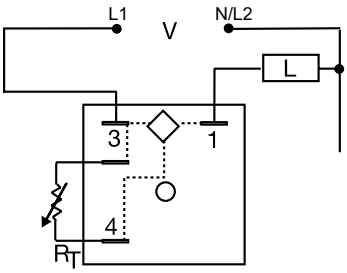
Operation

Upon application of input voltage, effective output voltage can be varied by changing the external resistance value. As the external resistance increases, the effective output voltage decreases. The inverse is also true.

Features & Benefits

FEATURES	BENEFITS
External adjustment - 230VAC rated potentiometer	Allows control of heavy loads directly, solid state design will provide long life
Up to 20A steady state - 200A inrush	Allows control of heavy loads directly, solid state design will provide long life
Single hole surface mounting	Provides quick and easy installation

Wiring Diagram



Triac Output Device
V = Voltage
L = Load
RT = External Adjustment

Accessories



P1004-174 (100kΩ 1W)**, P1004-175** (200kΩ 2W)
Versa-Pot
Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



P0700-7 Versa-Knob
Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1015-64 (AWG 14/16)
Female Quick Connect
These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter
Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

Ordering Information

MODEL	INPUT VOLTAGE	RATING
PHS120A10	120VAC	10A
PHS120A20	120VAC	20A
PHS120A6	120VAC	6A
PHS230A10	230VAC	10A
PHS230A20	230VAC	20A
PHS230A6	230VAC	6A

If you don't find the part you need, call us for a custom product 800-843-8848

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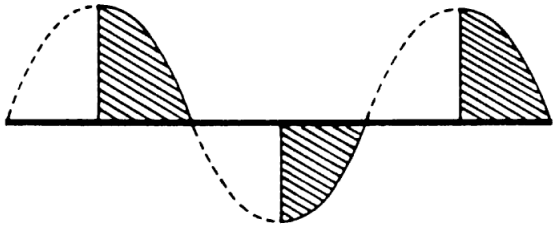
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Specifications

Output		
Type	Variable voltage phase angle control	
Rating	**Steady State (at 100% On)**	**Inrush***
	1A	10A
	6A	60A
	10A	100A
	20A	200A
Minimum Load Current	100mA	
Voltage Drop	≅ 2.0V at rated current	
Input		
Voltage	120 or 230VAC	
Tolerance	±20%	
AC Line Frequency	50/60Hz	
Protection		
Dielectric Breakdown	≥ 2000V RMS terminals to mounting surface	
Insulation Resistance	≥100MΩ	
Mechanical		
Mounting *	Surface mount with one #10 (M5 x 0.8) screw	
Dimensions	**H** 50.8 mm (2"); **W** 50.8 mm (2"); **D** 38.4 mm (1.51")	
Termination	0.25 in. (6.35 mm) male quick connect terminals	
Environmental		
Operating/Storage Temperature	-20° to 60°C / -40° to 85°C	
Humidity	95% relative, non-condensing	
Weight	1A: ≅ 2.4 oz (68 g) 6, 10, & 20A: ≅ 3.9 oz (111 g)	
External Adjustment Potentiometer		
120VAC	100KΩ rated at 1W	
230VAC	200KΩ rated at 2W Must have insulation resistance suitable for line voltage applications.	

*Units rated ≥ 6A must be bolted to a metal surface using the included heat sink compound. The maximum mounting surface temperature is 90°C. Inrush: Non-repetitive for 16ms.

Typical Output Waveform



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