Solid State Power Controls

PCA and SCE models for AC outputs
PCD models for DC outputs

Ohmitrol Power and Motor Speed Controls are solid state units which provide an infinitely smooth power control over their entire voltage range. An integral internal trimmer on some models allows customization of the control to a specific application by a simple turn of a screwdriver.

Power and motor speed controls are extremely versatile from an AC source; either AC or DC outputs are possible with the appropriate model. Models PCA and SCE, AC output, have applications to control heaters (both resistive and infrared) and motors such as universal and shaded pole, and can replace transformers. Model PCD, DC output, can be used to control shunt and series wound, universal, compound and permanent magnet motors, magnetic clutches, brakes, etc.

SCE Style

PCA/PCD Style

FEATURES

- AC and DC output types
- Component styles
- On-Off switch built in
- Internal trimmer on PCA and PCD models
- Adjustable control range

SPECIFICATIONS

Output: PCA and SCE models have an AC output. PCD models have two DC outputs: one output from an AC source is rectified DC at approximately full line voltage, the other output is variable or controlled DC. (DC models have terminals at the rear of the unit which accept quick connectors.)

Adjustable control range: On PCA and PCD models an internal trimmer allows the starting point of the control voltage to be set anywhere within the stated trimmer voltage range with a screwdriver.

Armature current: For PCD models, 500 mA min. for proper operation.

NOTE: For panel mount use under full power output conditions, the face of the control must be in contact with a metal panel. For optimum heat dissipation, a thermal-conducting compound must be applied to the face of the power control prior to mounting.

Model	Load (watts)	Input (volts)	Frequency (Hz)	Output range (VAC, nom.)	Trimmer range (volts)
Component style (Ohmitrol) 2.03" x 1.77" x 1.75" *(51.6 x 45.0 x 44.5 mm)*					
✙ **PCA1000**	1000W 8.3A AC	120VAC	60HZ	0-120VAC	10-50V
✔ **PCA1050**	15A AC	120VAC	60HZ	0-120VAC	10-75V
✜ **PCA1100**	1000W 8.3A AC	120VAC	50HZ	0-120VAC	10-50V
✙ **PCA1020**	2000W 8.3A AC	240VAC	60HZ	0-240VAC	20-100V
✜ **PCA1120**	2000W 8.3A AC	240VAC	50HZ	0-240VAC	20-100V
2.03" x 2.77" x 1.75" *(51.6 x 70.4 x 44.5 mm)*					
✔ **PCD1000**	3.5A DC to 6.0A DC	120VAC	60HZ	0-120VDC	10-50V
✜ **PCD1100**	3.5A DC to 6.0A DC	120VAC	50HZ	0-120VDC	10-50V
✜ **PCD1020**	3.5A DC to 6.0A DC	240VAC	60HZ	0-240VDC	20-100V
✜ **PCD1120**	3.5A DC to 6.0A DC	240VAC	50HZ	0-240VDC	20-100V
Enclosed 2.5" x 3.2" x 2.5" *(63.5 x 81.3 x 63.5 mm)*					**Fuse part no.**
✔ **SCE12-5**	600	120VAC	50/60	0-118VAC	49C25-10
✔ **SCE12-10**	1200	120VAC	50/60	0-118VAC	49C25-10
✜ **SCE12-15**	1800	120VAC	50/60	0-118VAC	49C25-15
✜ **SCE24-5**	1200	208, 220, 240VAC	50/60	0-206, 218, 238VAC	49C25-10
✜ **SCE24-10**	2400	208, 220, 240VAC	50/60	0-206, 218, 238VAC	49C25-10
✔ **SCE24-15**	3600	208, 220, 240VAC	50/60	0-206, 218, 238VAC	49C25-15

✙ = Most popular stock values
✔ = Stock values
✜ = Non-stock values subject to minimum handling charge per item

See page 76 for knobs, dials, and other hardware