

PWL400 Series

1Q PWM Chassis Adjustable Speed Drive for PMDC or Field Wound Brushed Motors

The PWL Series adds to the versatility of our PWM offering by adding field voltage outputs for shunt-wound motors. With on-board selector switches, this series can easily be setup to accept 115 VAC or 230 VAC power. This full featured series comes with on-board fusing and cage clamp terminals to make installation simple and quick. The almost pure DC output of the PWL Series allows motors to run more efficiently and at lower speeds while achieving full torque than with the use of SCR type drives. With a wide selection of models that can run motors from 1/20 HP all the way up to 3 HP, you're sure to find a drive that will satisfy your needs.



DC DRIVES - 1Q PWM Chassis

Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
PWL400-3	Chassis	3	115	0 - 90 /130	1/20 - 1/4	.04 - .20	50/100	No	No
			230	0 - 90 /130	1/20 - 1/4	.04 - .20	100/200		
				0 - 180 /240	1/10 - 1/2	.08 - .40			
PWL400-5	Chassis	5	115	0 - 90 /130	1/8 - 1/2	.10 - .40	50/100	No	No
			230	0 - 90 /130	1/8 - 1/2	.10 - .40	100/200		
				0 - 180 /240	1/4 - 1	.20 - .75			
PWL400-10	Chassis	10*	115	0 - 90 /130	1/4 - 1	.20 - .75	50/100	No	No
			230	0 - 90 /130	1/4 - 1	.20 - .75	100/200		
				0 - 180 /240	1/2 - 2	.40 - 1.5			

* Heat sink kit HSK-0003 must be used when the continuous output current is above 5 amps.

SPECIFICATIONS

AC Line Voltage..... 115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø
 Accel / Decel Time Range..... 1 - 12 seconds
 Maximum Field Current1 amp
 Form Factor1.05
 Speed Range 100:1
 Load Regulation 1% of base speed or better
 Input Impedance100K Ω
 Isolated Analog Signal Range @ 115 VAC input.....0 - 2.5 VDC
 @ 230 VAC Input.....0 - 5 VDC
 Ambient Temperature Range.....10°C - 40°C

TRIM POTS

Acceleration IR Compensation
 Current Limit Maximum Speed
 Deceleration Minimum Speed

FEATURES

Stopping Modes: Inhibit (N.O.) for coasting to a stop. Can be used for rapid starting and stopping
On-board Fusing: Drives include on-board fusing
Diagnostic LEDs: Power, Current Limit

ACCESSORIES

HSK-0003: Heat sink kit
KTP-0001: Potentiometer kit
KTW-0001: 2-pin plug for Inhibit, Power, +15, or Curr headers with 18" leads