PWL400-15

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.

cULus   RoHS Compliant

Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
PWL400-15	Chassis	15	115	0 - 90 /130	1/4 - 1 1/2	.20 - 1.1	50/100	No	No
			230	0 - 90 /130	1/4 - 1 1/2	20 - 1.1	100/200		
				0 - 180 /240	1/2 - 3	.40 - 2.3			

SPECIFICATIONS

AC Line Voltage.............. 115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø

Maximum Field Current ....1 amp

Acceleration Time Range

   with 90/130 VDC motor.................................. 1 – 9 seconds

   with 180/240 VDC motor.............................1 – 15 seconds

Deceleration Time Range

   with 90/130 VDC motor....…..........coast to stop – 10 seconds

   with 180/240 VDC motor...........coast to stop – 18 seconds

Form Factor 1.05

Speed Range 100:1

Load Regulation ....0.5% of base speed or better

Input Impedance ....50K 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

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

Jog Mode: Dedicated circuitry for a jog setup

Diagnostic LEDs: Power, Current Limit

TRIM POTS

Acceleration
Current Limit
Deceleration
IR Compensation
Jog
Maximum Speed
Minimum Speed

ACCESSORIES

KTP-0001: Potentiometer kit

KTW-0001: 2-pin plug for Inhibit, Power, +15, or Curr headers with 18" leads