

DCH401-1.5

4Q PWM Microprocessor- based Chassis Adjustable Speed Drive for Low Voltage PMDC Brushed Motors

The DCH Series combines an AC to DC switching power supply with a regenerative PWM drive, creating an all in one solution to applications requiring control of 12 or 24 VDC motors when only 115 or 230 VAC power is available. The microprocessor design allows the drive to be programmed for custom applications or routines to meet OEM needs. With an isolated front end, this series is compatible with a 0-5 or 0-10 VDC analog from any PLC and with its 8-bit on-board microprocessor, the DCH can be customized in many applications to even replace a PLC.

Model Number	Enclosure	Input Voltage (VAC)	Output Voltage (VDC)	Maximum Current (ADC)	Peak Current (ADC)*	Power Range		Reversing	Isolation
						HP	kW		
DCH401-1.5	Chassis	115	0 - 12	3.0	4.0	1/50 - 1/25	.0203	Regenerative	0 - 5 VDC
			0 - 24	1.5	2.0				
		230	0 - 12	3.0	4.0				
			0 - 24	1.5	2.0				

SPECIFICATIONS

Accel / Decel Time Range0.5 - 15 seconds
Form Factor1.05
Speed Range 80:1
Load Regulation
Input Impedance>1M 0
Analog Signal Range0 - 5, 0 - 10 VDC
Ambient Temperature Range10°C - 40°C

FEATURES

Microprocessor-based: Allows custom programming for OEMs (1 Analog, 4 Digital)

All-in-One Package: Combines a custom regen-capable switching power supply with a low voltage drive

True Low Voltage Output: Allows control over low voltage motors without the negative effects of current spikes or a large BUS voltage associated with typical 115/230 VAC SCR and PWM controls

4Q Reversing: Regenerative / 4-Quadrant drives have the ability to perform quick and contactorless braking and/or reversing-on-the-fly

Isolated Logic: Allows floating or grounded 0 - 5 or 0 - 10 VDC signals

Stopping Modes: Forward and reverse inhibits can be set for N.O. or N.C. to brake to a stop. Can be used for rapid starting and stopping

Diagnostic LEDs: Power, Current Limit

ACCESSORIES

KTP-0001: Potentiometer kit **KTP-0013 (Included):** Connector and mounting kit

TRIM POTS

Forward Acceleration Forward Current Limit Forward Maximum Speed IR Compensation Reverse Acceleration Reverse Current Limit Reverse Maximum Speed