MHS403-25

1Q SCR Chassis Adjustable Speed Drive with Isolation and Tachogenerator Feedback for PMDC or Field Wound Brushed Motors

The MHS Series of drives adds to our already feature rich 1Q offering. With an isolated input that can accept a grounded 4-20 mA or 0-10 VDC signal, Programmable Logic Control (PLC) or motion card connectivity is easy. The addition of cage clamp terminals on all logic connections, and power connections on some models, makes installation a breeze. Aside from having all the standard calibration adjustments offered by our other 1Q drives, the MHS Series also offers start/stop push button inputs, dual voltage power capability, on-board fusing, and tachogenerator feedback inputs for even more precise control of motor speed.

Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
MHS403-25	Chassis	25	115	0 - 90	1 - 2 1/2	.75 - 1.9	50/100	No	0 - 10 VDC 4 - 20 mA
			230	0 - 90	1 - 2 1/2	.75 - 1.9	100/200		
				0 - 180	2 - 5	1.5 - 3.75			

SPECIFICATIONS

AC Line Voltage.....115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø
Maximum Field Current .....3 amp
Accel / Decel Time Range..... 1 - 11 seconds
Form Factor .....1.37 at base speed
Speed Range
- Armature Feedback..... 60:1
- Tach Feedback 80:1

Load Regulation
- Armature Feedback..... 1% of base speed or better
- Tach Feedback .....0.1% of base speed or better

Input Impedance ..... >100K Ω
Analog Signal Range .....0 - 10 VDC; 4 - 20 mA
Ambient Temperature Range.....10°C - 45°C

FEATURES

Isolated Logic: Allows floating or grounded 0 - 10 VDC or 4 - 20 mA signals. Burr-Brown provides .01% linearity
3-Wire Start/Stop: On-board latching relay allows for use of momentary Start/Stop pushbuttons
Tach Feedback: Accepts tachogenerator feedback for tighter speed regulation
On-board Fusing: Drives include on-board fusing
Multi-turn Trim Pots: Minimum Speed and Maximum Speed use 12 turn trim pots for finer tuning
Diagnostic LEDs: Power, Current Limit

TRIM POTS

Acceleration
Current Limit
Deceleration
IR Compensation
Maximum Speed
Minimum Speed
Tach Feedback

ACCESSORIES

KTP-0001: Potentiometer kit