

MHS443 Series

1Q SCR NEMA 4X Adjustable Speed Drive with Isolation and Tachogenerator Feedback for PMDC or Field Wound Brushed Motors



The MHS443 Series of drives adds to our already feature rich 1Q offering. This NEMA 4X drive 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.



G DC DRIVES - 1Q SCR NEMA 4X

Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
MHS443-10	NEMA 4X	10	115	0 - 90	1/8 - 1	.10 - .75	50/100	No	0 - 10 VDC 4 - 20 mA
			230	0 - 90	1/8 - 1	.10 - .75	100/200		
				0 - 180	1/4 - 2	.20 - 1.5			

SPECIFICATIONS

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

TRIM POTS

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

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
Manual/Signal Mode: Switch on front cover toggles between Manual Mode (potentiometer) or Signal Mode (analog signal)
Diagnostic LEDs: Power, Current Limit
Case Lights: Power

ACCESSORIES

None

