

RGA403 Series

4Q SCR Chassis Adjustable Speed Drive for PMDC or Field Wound Brushed Motors

The RGA403 Series of 4Q drives is well suited for applications that require the control of overhauling loads, frequent reversing or breaking. Installation has been made simple with cage-clamp terminals for power and logic and with on-board fusing. The RGA403 Series is very versatile and can be used in a wide range of environments. With the available field supply for shunt-wound motors, full assortment of adjustments that are standard on all our 4Q drives, and optional factory installed isolation module, the RGA403 Series is a flexible and well equipped member of our 4Q family of drives. The RGA403 Series is the RGA400 and an additional isolation adder card that allows the drive to be controlled via a non-isolated 4-20 mA or 0 to ± 250 VDC command signal.



Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
RGA403-3	Chassis	3	115	0 - 90	1/20 - 1/4	.04- .20	50/100	Regenerative	0 ± 250 VDC 1- 5, 4 , 10 -50 mA
			230	0 - 90	1/20 - 1/4	.04- .20	100/200		
				0 - 180	1/10 -1/2	.08 - .40			
RGA403-10	Chassis	10*	115	0 - 90	1/8 - 1	.10 - .75	50/100	Regenerative	0 ± 250 VDC 1- 5, 4 , 10 -50 mA
			230	0 - 90	1/8 - 1	.10 - .75	100/200		
				0 - 180	1/4 -2	.20 - 1.5			

*Heat sink kit HSK-0004 must be used when the continuous output current is above 7 amps.

SPECIFICATIONS

AC Line Voltage..... 115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø
 Maximum Field Current 1 amp
 Accel / Decel Time Range..... 0.5 - 15 seconds
 Form Factor 1.37 at base speed
 Speed Range
 - Armature Feedback..... 50:1
 - Tach Feedback 60:1
 Load Regulation
 - Armature Feedback..... 1% of base speed or better
 - Tach Feedback 0.1% of base speed or better
 Input Impedance VDC >25K Ω
 1-5mA / 4-20 mA / 10-50 mA..... 1K / 235 / 100 Ω
 Analog Signal Range Voltage..... 0 ± 10 / 0 ± 250 VDC
 Current Signal 1-5 / 4-20 / 10-50 mA
 Ambient Temperature Range..... 10 °C - 55 °C

TRIM POTS

Deadband
 Forward Acceleration
 Forward Current Limit
 IR Compensation
 Maximum Speed
 Minimum Speed
 Reverse Acceleration
 Reverse Current Limit
 Signal Input Adjust
 Tach

FEATURES

Isolated Logic: Allows floating or grounded 0 ± 250 VDC or 4 - 20 mA signals
Stopping Modes: Inhibit (N.O.) for braking to a stop. Enable for coasting to a stop. Can be used for rapid starting and stopping
On-board Fusing: Drives include on-board fusing
4Q Reversing: Regenerative / 4-Quadrant drives have the ability to perform quick and contactorless braking and/or reversing-on-the-fly
Tach Feedback: Accepts tachogenerator feedback for tighter speed regulation

ACCESSORIES

KTW-0001: Inhibit plug with 18" leads