

RGF Series

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

The largest and most powerful member of our 4Q regenerative family, the RGF Series comes standard on a heavy duty heat sink for optimum heat dissipation. The available field voltage supply makes this series compatible with any 90/180 VDC PM or shunt-wound motor in the 1-5 HP range. Contactorless reversing, overhauling load control, breaking, or plug reversing is easily accomplished by this conservatively rated 25 amp drive. Standard on this series is Burr-Brown input isolation, which provides a linear response to a 4-20 mA or 0 to ± 250 VDC command signal. With easy to use cage clamp terminals for logic, large screw terminals for power connections, tachogenerator feedback compatibility, and full assortment of adjustment trim pots, this robustly designed full featured series is well suited for the most demanding reversing and control applications.



Model Number	Enclosure	Maximum Current (ADC)	Input Voltage (VAC)	Output Voltage (VDC)	Power Range		Field/Shunt Supply	Reversing	Isolation
					HP	kW			
RGF403-25	Chassis	25	115	0 - 90	1 - 2 1/2	.75 - 1.9	50/100	Regenerative	0 \pm 250 VDC 1 - 5, 4 - 20 10 - 50 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, $\pm 10\%$, 50/60 Hz, 1 ϕ
- Maximum Field Current3 amp
- Accel / Decel Time Range..... 0.5 - 8 seconds
- Form Factor1.37 at base speed
- Speed Range
 - Armature Feedback..... 50:1
 - Tach Feedback 60:1
- Load Regulation
 - Armature Feedback..... 1% of base speed or better
 - Tach Feedback0.1% of base speed or better
- Input Impedance S0-S2 / S0-HV.....25K / 125K Ω
 - 1-5mA / 4-20 mA / 10-50 mA.....1K / 235 / 100 Ω
- Analog Signal Range Voltage0 \pm 10 / 0 \pm 250 VDC
 - Current Signal 1-5 / 4-20 / 10-50 mA
- Ambient Temperature Range.....10 $^{\circ}$ C - 55 $^{\circ}$ C

FEATURES

- Isolated Logic:** Allows floating or grounded 0 \pm 250 VDC or 4 - 20 mA signals
- Stopping Modes:** Regen Brake (N.O.) for braking 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

TRIM POTS

- Current Signal Offset
- Deadband
- Forward Acceleration
- Forward Current Limit
- Input Adjust
- IR Compensation
- Maximum Speed, Minimum
- Speed
- Reverse Acceleration
- Reverse Current Limit
- Tach Feedback

ACCESSORIES

- KTP-0001:** Potentiometer kit
- KTW-0001:** Inhibit plug with 18" leads