

RGM400 Series

4Q SCR Chassis Adjustable Speed Drive for PMDC Brushed Motors

The RGM Series is a full featured regenerative SCR type drive series designed specifically for demanding applications where quickly stopping or reversing a PMDC motor is a requirement. With a widely used industry footprint standard, these compact 4Q drives eliminate the need for bulky mechanical relays or switches to reverse motor direction. As with all our 4Q drives, these units come standard with user adjustable trim pots for Max Speed, FWD/REV Torque, Acceleration, Deceleration, DB, Min Speed, Tach, and IR Comp. With these adjustments, a drive can easily be tuned to run almost any PMDC motor in the 1/20th to 2 HP range. Also available on the RGM Series is a factory installed isolation module that allows the drive to be controlled via a non-isolated 4-20 mA or 0 to ±10 VDC command signal. With many user selectable stopping or enabling modes and Tachogenerator feedback, the RGM Series is a versatile drive that can satisfy your reversing and control needs.



| Model Number | Enclosure | Maximum Current (ADC) | Input Voltage (VAC) | Output Voltage (VDC) | Power Range | | Field/Shunt Supply | Reversing | Isolation |
|--------------|-----------|-----------------------|---------------------|----------------------|-------------|------------|--------------------|--------------|-----------|
| | | | | | HP | kW | | | |
| RGM400-1.5 | Chassis | 1.5 | 115 | 0 - 90 | 1/20- 1/8 | .04 - .10 | No | Regenerative | No |
| | | | 230 | 0 - 90 | 1/20- 1/8 | .04 - .10 | | | |
| | | | | 0 - 180 | 1/10 - 1/4 | .08 - .20 | | | |
| RGM400-10 | Chassis | 10* | 115 | 0 - 90 | 1/8- 1 | .10 - .75 | No | Regenerative | No |
| | | | 230 | 0 - 90 | 1/8- 1 | .10 - .75 | | | |
| | | | | 0 - 180 | 1/4 - 2 | .20 - .1.5 | | | |

*Heat sink kit HSK-0001 must be used when the continuous output current is above 5 amps.

SPECIFICATIONS

AC Line Voltage..... 115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø
 Accel / Decel Time Range..... 0.5 - 6 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 30K Ω
 Isolated Analog Signal Range..... 0 ± 10 VDC
 Ambient Temperature Range..... 10°C - 55°C

TRIM POTS

| | |
|-----------------------|-----------------------|
| Deadband | Minimum Speed |
| Forward Acceleration | Reverse Acceleration |
| Forward Current Limit | Reverse Current Limit |
| IR Compensation | Tach |
| Maximum Speed | |

FEATURES

ACE Footprint: Traditional ACE mounting pattern and footprint
Quick Disconnect Terminal: Allows for quicker wiring and setup
Stopping Modes: Inhibit for braking to a stop. Enable for coasting to a stop. Can be used for rapid starting and stopping
Configurable Enable and Inhibit: Can be configured to be either normally open or normally closed
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
Diagnostic LEDs: Power, Forward Current Limit, Reverse Current Limit

ACCESSORIES

HSK-0001: Heat sink kit
ISO402-1: Isolation adder board to convert RGM400 into RGM403
KTP-0001: Potentiometer kit
KTP-0007 (Included): Connector kit

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DC DRIVES - 4Q SCR Chassis

