


Drive	Input Voltage (VAC)	Output Voltage Range (VDC)	Max. Armature Current	HP Rating @ 90 VDC Output	HP Rating @ 180 VDC Output	Enclosure	Reversing	Isolation	Field Supply (VDC) ****	UL Listed 	CSA 	CE TUV 
RG510UA	115 / 230	0-90 / 0-180	3	1/20 - 1/4	1/10 - 1/2	CHASSIS	YES	—	YES	YES	YES	—
RG510UA-PCM	115 / 230	0-90 / 0-180	3	1/20 - 1/4	1/10 - 1/2	CHASSIS	YES	0 to $\pm 10$ VDC 4-20 mA	YES	YES	YES	—
RG510A	115 / 230	0-90 / 0-180	3	1/20 - 1/4	1/10 - 1/2	NEMA 4X	YES	—	YES	YES	YES	—
RG500UA	115 / 230	0-90 / 0-180	10*	1/8 - 1	1/4 - 2	CHASSIS	YES	—	YES	YES	YES	—
RG500UA-PCM	115 / 230	0-90 / 0-180	10*	1/8 - 1	1/4 - 2	CHASSIS	YES	0 to $\pm 10$ VDC 4-20 mA	YES	YES	YES	—
RG500A	115 / 230	0-90 / 0-180	10	1/8 - 1	1/4 - 2	NEMA 4X	YES	—	YES	YES	YES	—

\* Heat sink number 223-0235 must be used when the output is above 7 amps.

\*\*\*\* The field supply is rated at 1 amp. A 50/100 VDC field is available with 115 VAC input and a 100/200 VDC field is available with 230 VAC input.

Minarik Drives' RG500 Series consists of full-wave, four-quadrant regenerative SCR drives to provide smooth motoring and braking torque for brush-type DC motors. The RG500 Series is a proven design with many years of success in the industrial marketplace.

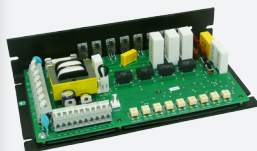
Regenerative drives such as the RG500 Series are great for applications with overhauling loads, rapid deceleration, basic positioning, and high duty cycle reversing and braking. The RG500 Series includes standard chassis, isolated chassis, and enclosed NEMA 4X models. The RG500 Series drive used with a 200-0386A limit switch logic board provides a variety of routines for limit switch applications.

Choose the RG500 Series when the application calls for a well proven and reliable regenerative drive. The RG500 Series survives in environments that others can't.

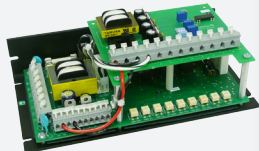
See page 52 for an in-depth comparison of the different 4Q drives.



RG500A  
RG510A

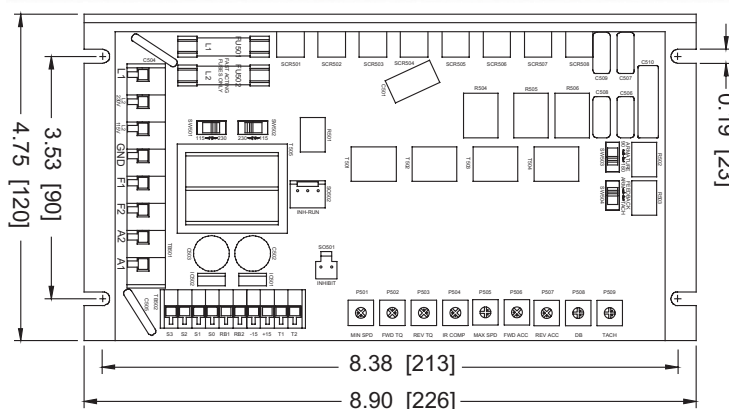


RG500UA  
RG510UA



RG500UA-PCM  
RG510UA-PCM

## RG5x0UA DIMENSIONS



Height: 1.90 [48]  
All dimensions in inches [millimeters]

Dimensions of drives not shown above can be found on pages 57 and 58.  
Wiring diagrams can be found on page 66.

## FEATURES

- **4Q reversing:** Regenerative / 4 quadrant drives have the ability to perform quick and contactorless reversing on-the-fly.
- **NEMA 4X enclosure:** RG510A and RG500A come in a rugged metal corrosion resistant, weatherproof enclosure that protects against dirt and splashing water.
- **Speed range, regulation, & form factor:** 1% of base speed regulation with a 50:1 speed range. 0.1% of base speed regulation with a 60:1 speed range with the addition of tachogenerator feedback. 1.37 form factor at maximum rated voltage.
- **User adjustable calibration pots:** Minimum Speed, Maximum Speed, Forward Current Limit, Reverse Current Limit, IR Compensation, Forward Acceleration, Reverse Acceleration, Deadband and Tachogenerator Feedback.
- **Stopping modes:** Inhibit (N.O.) to immediately brake to a stop. RB1 and RB2 (N.O.) to decelerate to a stop.
- **Cage clamp terminal block:** Quick and easy wire terminations.
- **On board fusing:** No need to add external fusing for protection of your motor or drive.
- **Options and Accessories:** Heatsink 223-0235. "-PCM" option adds Burr Brown isolation, 201-0024 inhibit plug with 18" leads, and 200-0386 limit switch logic board, and DLC600 digital closed loop controller.
- **RoHS:** All RG500 series models are RoHS compliant.