

Worm gear reducers have a distinct advantage of having very low audible noise. The right angle output configuration results in a compact, low profile mounting. Extraordinary efficiency, relative to standard worm gear reducers, is achieved with the use of a custom-designed high-strength plastic worm wheel with optimized tooth profile. This special design allows the gearmotor to be easily back-driven. The high efficiency allows the use of a smaller, more energy efficient motor to achieve the same output power versus a standard worm gear reducer.

### SPECIFICATIONS & CONSTRUCTION

**Gear Ratios:** 10.25:1

**Axial Load / Radial Load:** 200 N / 250 N

**Efficiency:** 75 to 80 %

**Housing:** Die cast Zinc

**Lubrication:** Synthetic Grease

**Output speeds:** 100 to 400 RPM

**Voltage:** 12Vdc to 150Vdc

**Output Power:** 60 Watts

**Duty Cycle:** Intermittent

**Motors Available:** 5200D

**Bearing Type:** Ball for both motor and gearbox

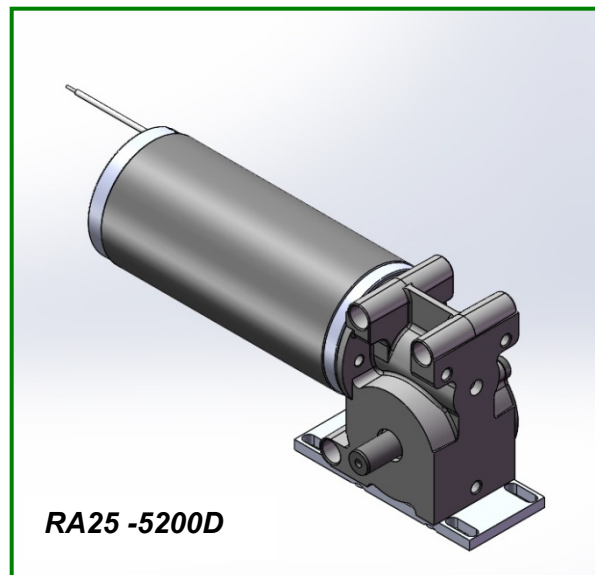
**Insulation Class:** F

**Rotation:** Reversible

**Regulatory Approvals:** UL, CE, RoHs

### TYPICAL APPLICATIONS

- Pumps
- Sliding Door Operators
- Low Energy "ADA" Doors
- Elevator Doors
- Transit Platform Screen Doors
- Turnstiles & Security Gates
- Wheelchair Ramps
- Material Handling- Conveyors
- Packaging Equipment



**RA25 -5200D**

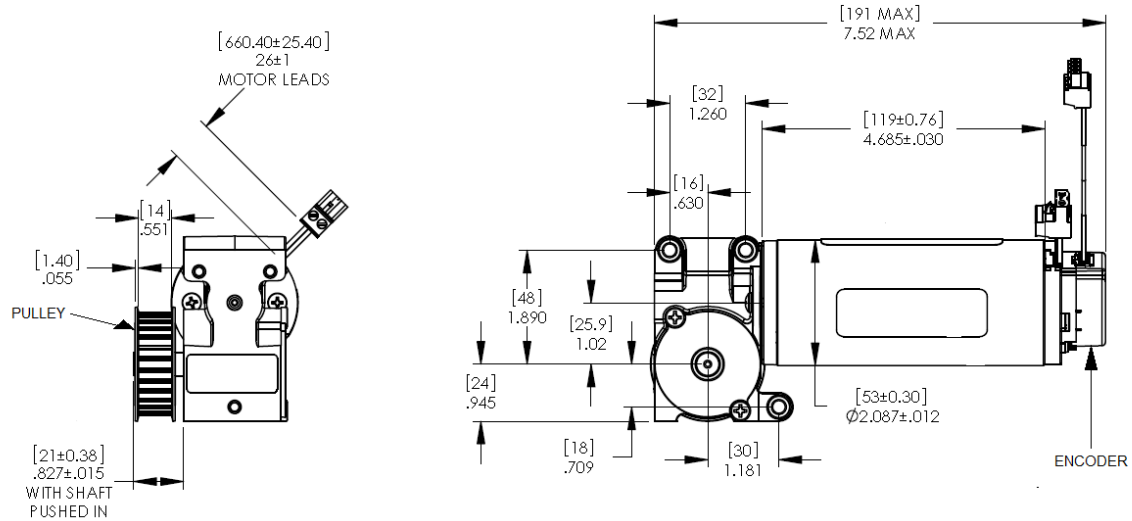
**Maximum Permissible Torque: 35 In.Lb (3.0 Nm)**  
**Speed: 100 to 400 RPM**

*Note: Speed and torque combinations will vary depending on the motor/gearbox combination.*

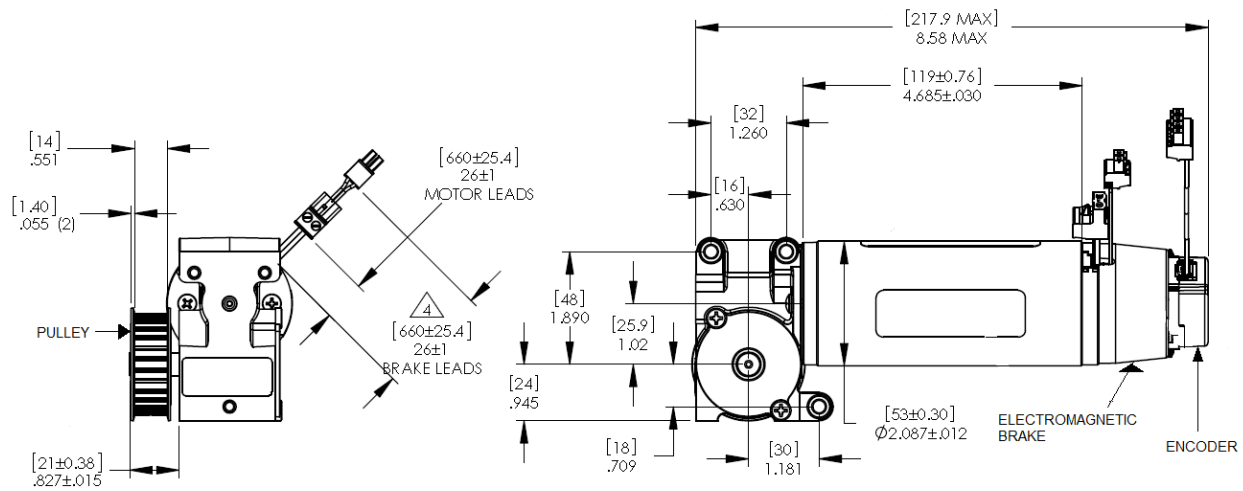
### OPTIONAL FEATURES

- Customized output shafts – single or double output
- Various lead lengths, terminals and connectors
- Pulleys
- Brakes: Electromagnetic
- EMI Filtering: Internal and External Suppression
- Magnetic Encoder: 2 to 12 PPR Resolution
- Optical or Capacitive: Up to 2048 PPR Resolution

## MODEL RA25-52125D WITH ENCODER



## MODEL RA25-52125D WITH ENCODER AND BRAKE



### TYPICAL MOTOR PERFORMANCE

Data	Units	5295D		52125D	
Voltage	Vdc	12	24	12	24
Output Power	Watts	40	40	60	60
Continuous Rated Speed	RPM	3600	3600	3000	3000
Continuous Rated Torque	N.m	0.09	0.10	0.155	0.17
Continuous Rated Current	Amps	4.5	2.3	5.5	2.9
No Load Speed	RPM	4500	4200	3400	3400
Torque Constant (Kt)	N.m/Amp	0.02	0.043	0.03	0.063
Voltage Constant (Ke)	V/rad/s	0.02	0.043	0.03	0.063

### RA25 GEAR REDUCER RATINGS

Data	Units	RA25
Gear Reduction	Ratio	10.25:1
Efficiency	%	80
Continuous Rated Torque	N.m	1.5
Maximum Permissible Torque	N.m	3.0
Axial /Radial Load	N	200/250