

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: 10:1, 15:1

Axial Load / Radial Load: 100 N / 300 N

Efficiency: 75 to 80 %

Housing: Die cast Zinc

Lubrication: Synthetic Grease

Output speeds: 65 to 400 RPM

Voltage: 12Vdc to 150Vdc

Output Power: 100 Watts

Duty Cycle: Intermittent

Motors Available: 6300D

Bearing Type: Ball for both motor and gearbox

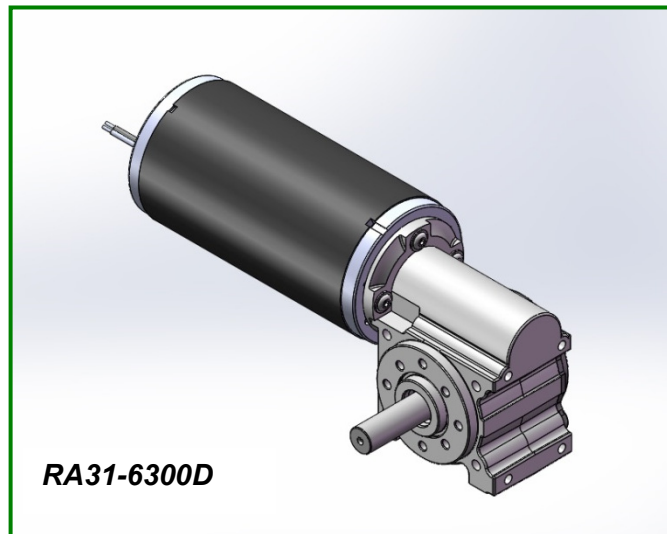
Insulation Class: F

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



RA31-6300D

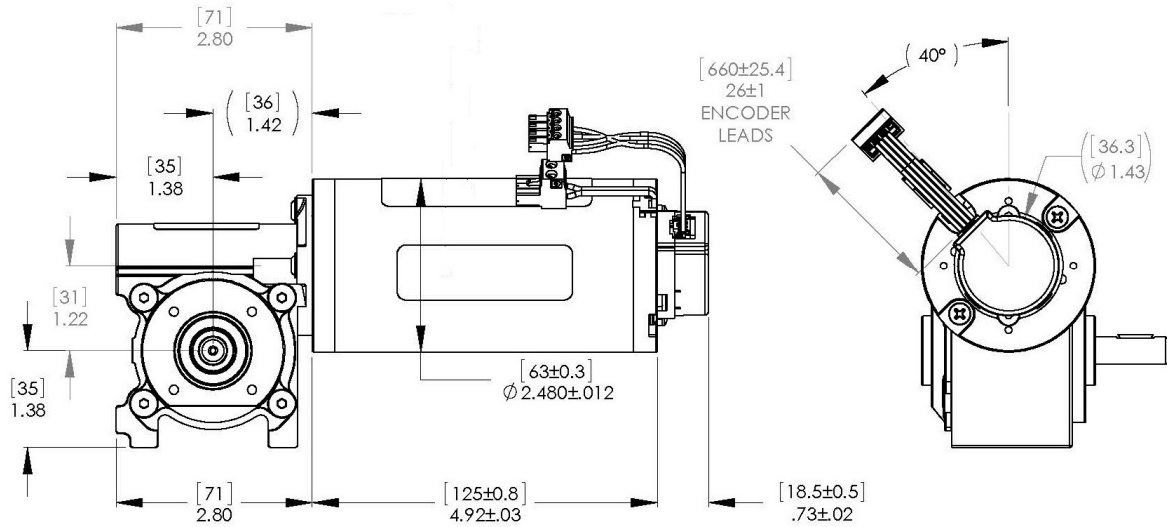
Maximum Permissible Torque: 53 In.Lb (6.0 Nm)
Speed: 65 to 400 RPM

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

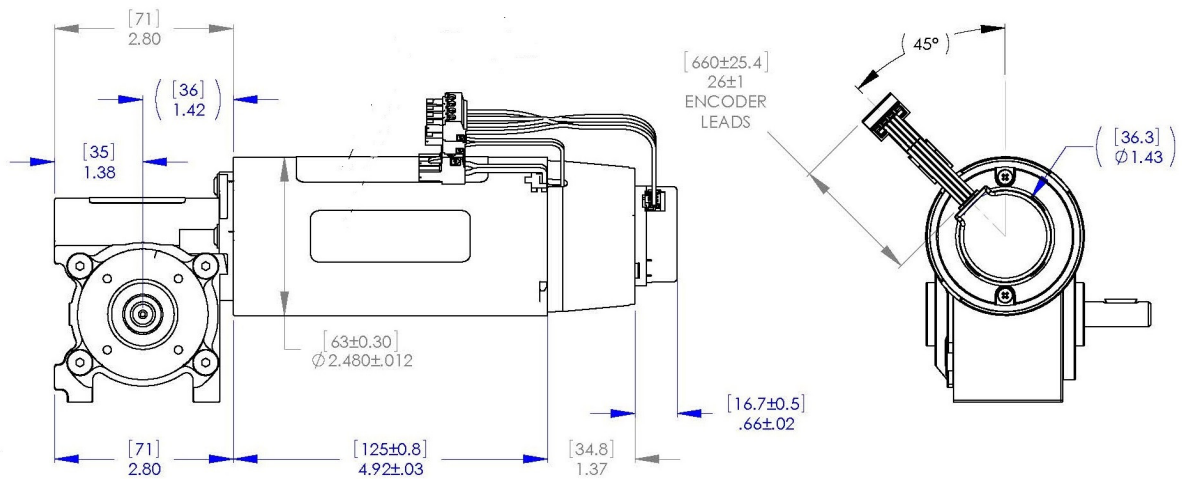
OPTIONAL FEATURES

- 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 RA31-63125D WITH ENCODER



MODEL RA31-63125D WITH ENCODER AND BRAKE



TYPICAL MOTOR PERFORMANCE

Data	Units	6395D				63125D			
		24	40	90	110	24	40	90	110
Voltage	Vdc	24	40	90	110	24	40	90	110
Output Power	Watts	50	50	50	50	100	100	100	100
Continuous Rated Speed	RPM	3300	3300	3300	3300	3000	3000	3000	3000
Continuous Rated Torque	N.m	0.14	0.14	0.14	0.14	0.27	0.27	0.27	0.27
Continuous Rated Current	Amps	2.7	1.6	0.7	0.57	5.8	3.5	1.6	1.3
No Load Speed	RPM	3500	3500	3500	3500	3300	3300	3300	3300
Torque Constant (Kt)	N.m/Amp	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061
Voltage Constant (Ke)	V/rad/s	0.060	0.060	0.060	0.060	0.061	0.061	0.061	0.061

RA31 GEAR REDUCER RATINGS

Data	Units	RA31	
		10:1	15:1
Gear Reduction	Ratio	10:1	15:1
Efficiency	%	80	70
Continuous Rated Torque	N.m	2.5	3.5
Maximum Permissible Torque	N.m	4.0	6.0
Axial /Radial Load	N	100/300	100/300