

# DC BRUSH SERVO MOTORS FEATURES & OPTIONS

## *GM Series*

- Traditional ferrite magnet design provides a cost effective solution.
- Higher inertia armatures provide improved motor to load inertia matching for medium to high inertia loads. This helps to reduce the mechanical shaft resonance which allows higher servo gains with increased stability.
- Skewed armature design provides ultra smooth operation (i.e. low cogging torque) at all speeds.
- Constructed to withstand the toughest industrial environment with rugged, high performance bearings and TENV construction with IP54 sealing standard. Optional IP65 sealing is available on 3.3", 4.0" and 6.0" frame motors.
- Worldwide standard mounting configurations are available. Optional custom mounting configurations are available to meet virtually any requirement.
- Various electrical windings are available as standard to suit both low and high voltage amplifiers in order to provide optimum speed and torque characteristics. Optional custom electrical windings are available to meet virtually any requirement.
- Industry standard lead termination configurations (i.e. MS connectors, fluid tight strain relief cable exit, NPT hole with flying leads and terminal boxes).
- Optional industry standard feedback devices (i.e. high performance, low ripple 4-pole silver commutator tachometers and encoders with line driver outputs, quadrature and zero index). Standard encoder resolutions include 500 PPR, 1000 PPR, 1024 PPR, 1250 PPR, 2000 PPR, 2500 PPR, 5000 PPR and 8192 PPR.
- Shaft keyway standard.
- Class H insulation standard.
- Optional normally closed thermal switch is available that provides over temperature protection.
- Optional 24 VDC holding brakes are available.
- Optional precision gear reducers are available.
- CSA and UL recognized.
- CE marked.

## *GMR Series*

- High-energy Neodymium-Iron-Boron (NdFeB) magnet design provides more torque in a smaller package with higher dynamic performance than traditional ferrite magnet designs.
- Constructed to withstand the toughest industrial environment with rugged, high performance bearings and TENV construction with IP54 sealing standard. Optional IP65 sealing is available on 3.3" and 4.9" frame motors.
- Worldwide standard mounting configurations are available. Optional custom mounting configurations are available to meet virtually any requirement.
- Various electrical windings are available as standard to suit both low and high voltage amplifiers in order to provide optimum speed and torque characteristics. Optional custom electrical windings are available to meet virtually any requirement.
- Industry standard lead termination configurations (i.e. MS connectors, fluid tight strain relief cable exit, NPT hole with flying leads and terminal boxes).
- Optional industry standard feedback devices (i.e. high performance, low ripple 4-pole silver commutator tachometers and encoders with line driver outputs, quadrature and zero index). Standard encoder resolutions include 500 PPR, 1000 PPR, 1024 PPR, 1250 PPR, 2000 PPR, 2500 PPR, 5000 PPR and 8192 PPR.
- Shaft keyway standard.
- Class H insulation standard.
- Optional normally closed thermal switch is available that provides over temperature protection.
- Optional 24 VDC holding brakes are available.
- Optional precision gear reducers are available.
- CSA and UL recognized.
- CE marked.

**Glentek, Inc.**

**208 Standard Street • El Segundo, California 90245 USA  
(310) 322-3026 • (310) 322-7709 Fax • [www.glentek.com](http://www.glentek.com)**