

# GPM16

Peak Torque **960 Ncm**  
 Cont. Torque **96 Ncm**  
 Cont. Power **300 Watts**  
 Speed **<1 to 6000 rpm**

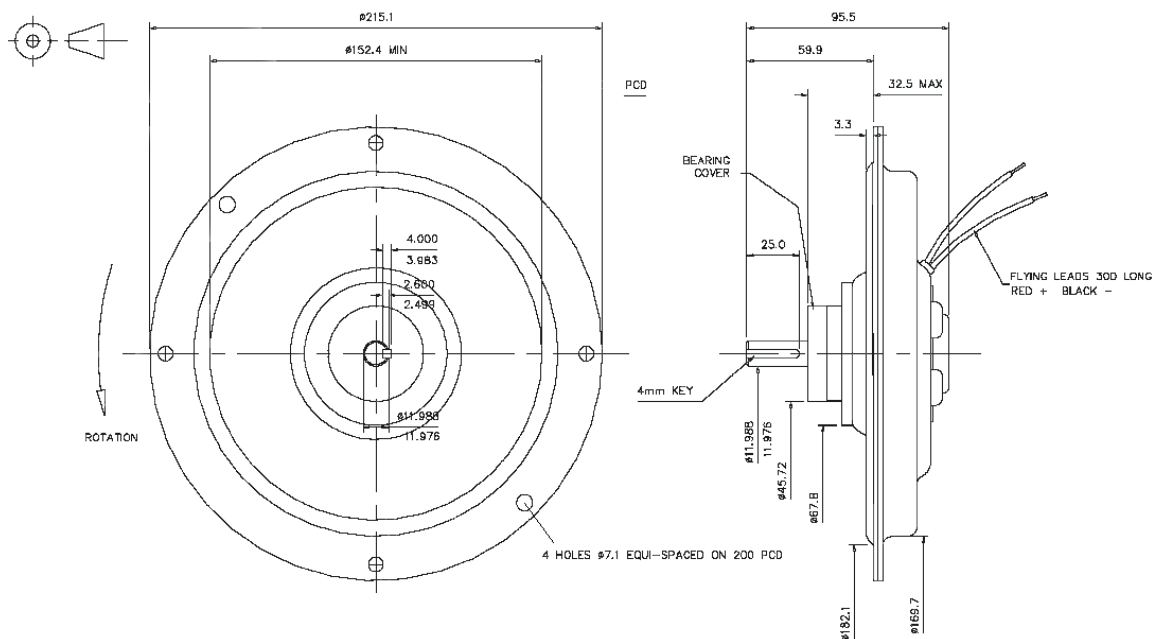
The Printed Motor Works GPM16 is a totally enclosed dc motor in an ultra slim pancake profile. This pancake motor can provide a cost effective servo capability. Using flat armature technology the motor is ideal for general purpose applications.



GPM16

Motor Constants	Symbol	Unit	Value
Voltage	Ke	V/krpm	11.8
Torque	Kt	Ncm/Amp	11.2
Damping	Kd	Ncm/1000rpm	0.99
Friction	Tf	Ncm	4.9
Terminal Resistance	I	Ohm	0.85

Motor Ratings	Unit	Value
Voltage	Volts	43.3
Current	Amps	9.3
Torque	Ncm	96.0
Speed	RPM	3000
Power	Watts	300



## Sample design modifications

### Shaft

- Round shaft
- Extra flats
- Length variants
- Cut gear
- Other modifications

### Brushes

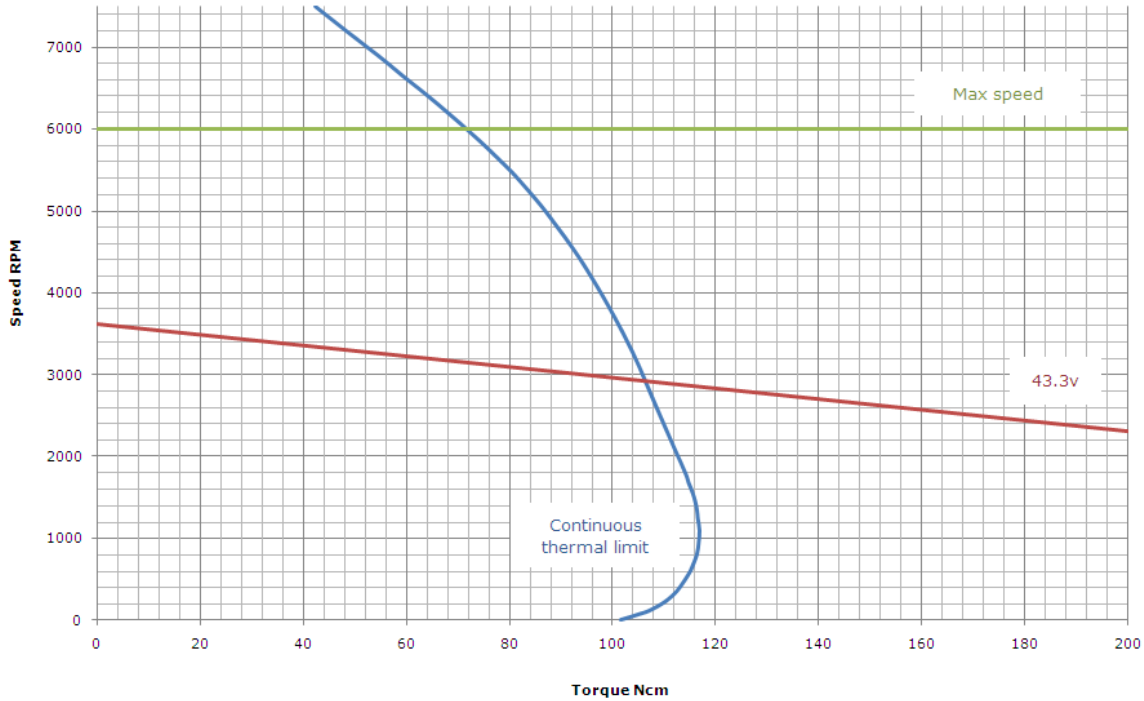
- Long life for continuous duty applications
- Low resistance brushes for servo applications
- High altitude
- Vacuum

### Extra

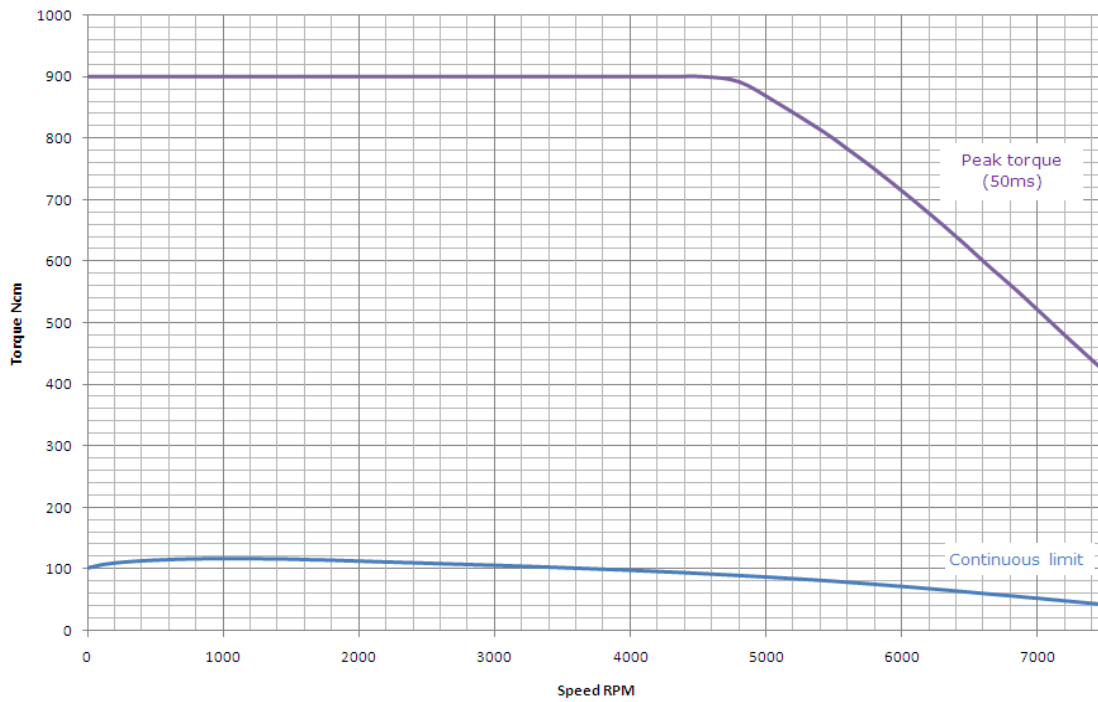
- EMC suppression
- Long leads
- Connectors
- Tri-rated cable
- Rated for operation in 150°C ambient



## GPM16



## Peak torque speed curve



NOTE: The angle of the Torque/Speed curve remains the same for higher and lower voltages. The speed varies proportionally from zero rpm relative to the voltage supplied. The stated voltage is an example, not a predefined maximum or minimum. Due to ongoing product improvement data in this datasheet maybe subject to change without notice.

