

GPM9LR

Peak Torque **100 Ncm**
 Cont. Torque **10 Ncm**
 Cont. Power **39 Watts**
 Speed **<1 to 6000 rpm**

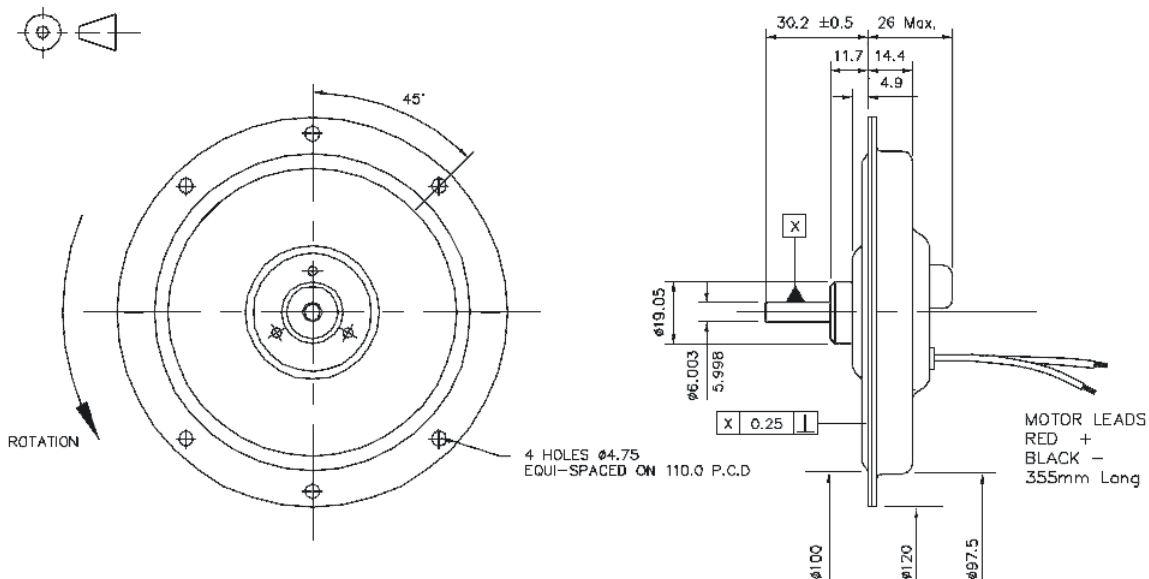
The Printed Motor Works GPM9LR is a totally enclosed dc motor in an ultra slim pancake profile designed specifically for low voltage and battery applications. This pancake motor can provide cost effective servo capability at lower voltages, compared with the standard GP series.



GPM9LR

Motor Constants	Symbol	Unit	Value
Voltage	Ke	V/krpm	1.1
Torque	Kt	Ncm/Amp	1.05
Damping	Kd	Ncm/1000rpm	0.30
Friction	Tf	Ncm	1.2
Terminal Resistance	I	Ohm	0.42

Motor Ratings	Unit	Value
Voltage	Volts	9.0
Current	Amps	11.7
Torque	Ncm	10.0
Speed	RPM	3705
Power	Watts	39



Sample design modifications

Shaft

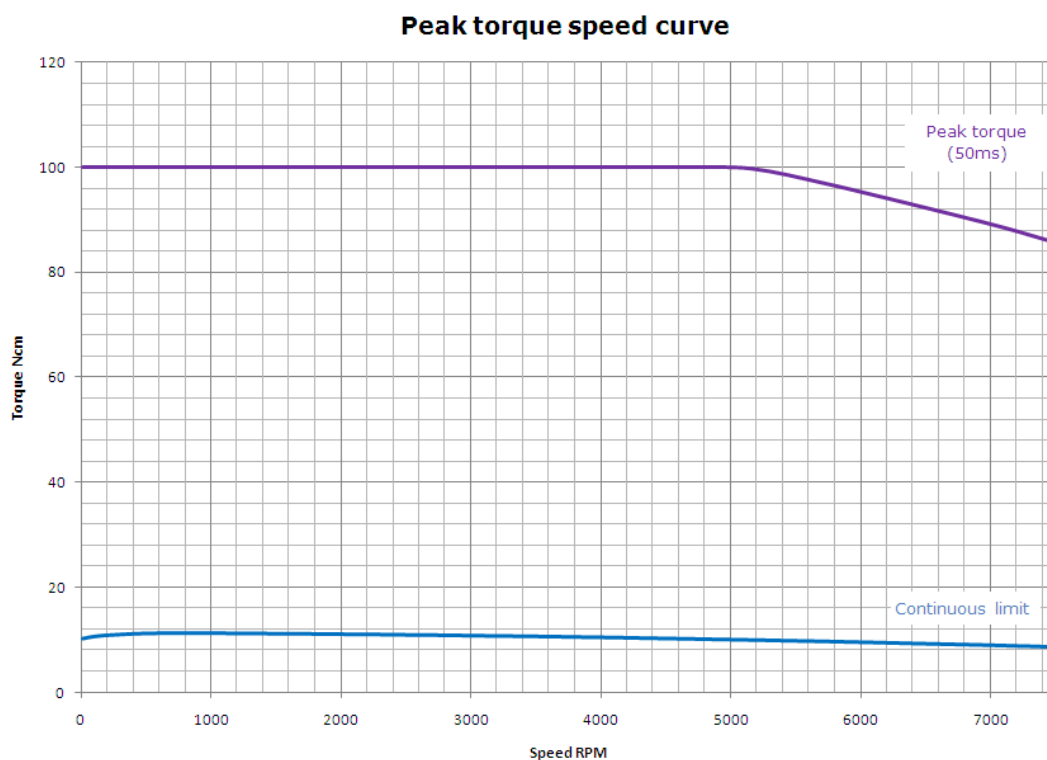
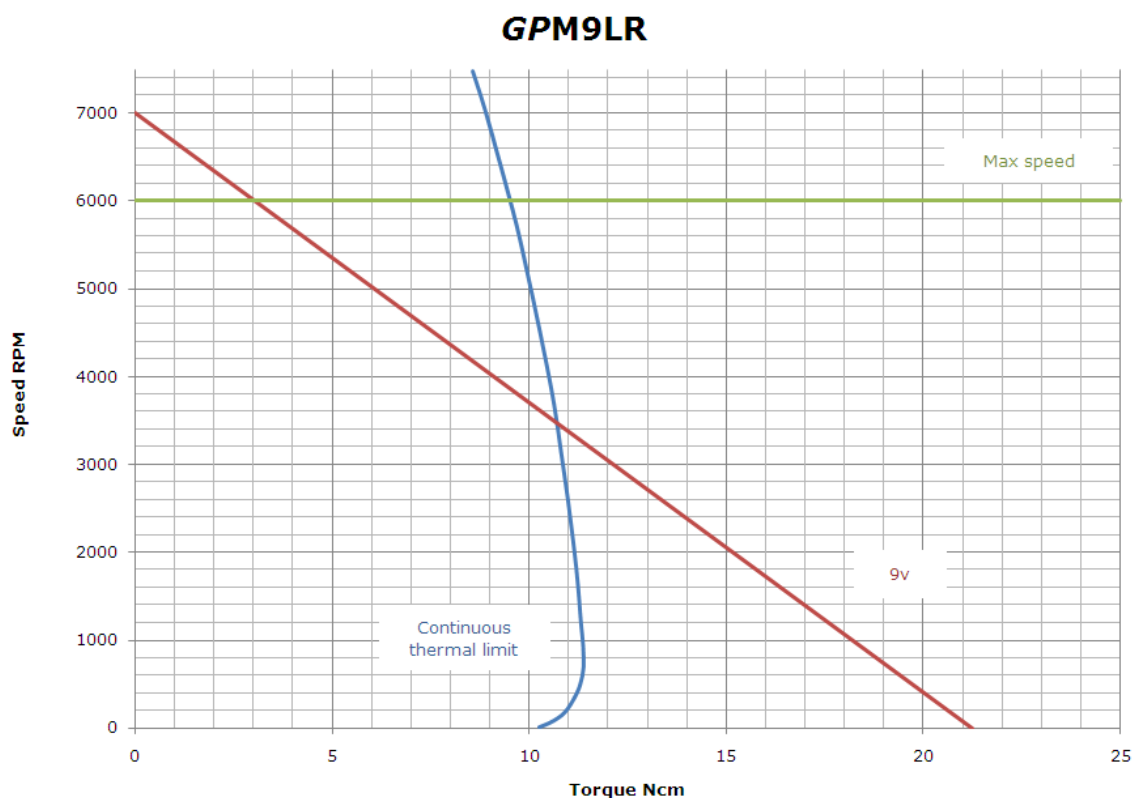
- Round shaft
- Extra flats
- Length variants
- Cut gear
- Other modifications

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



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.