*GP*N9LR

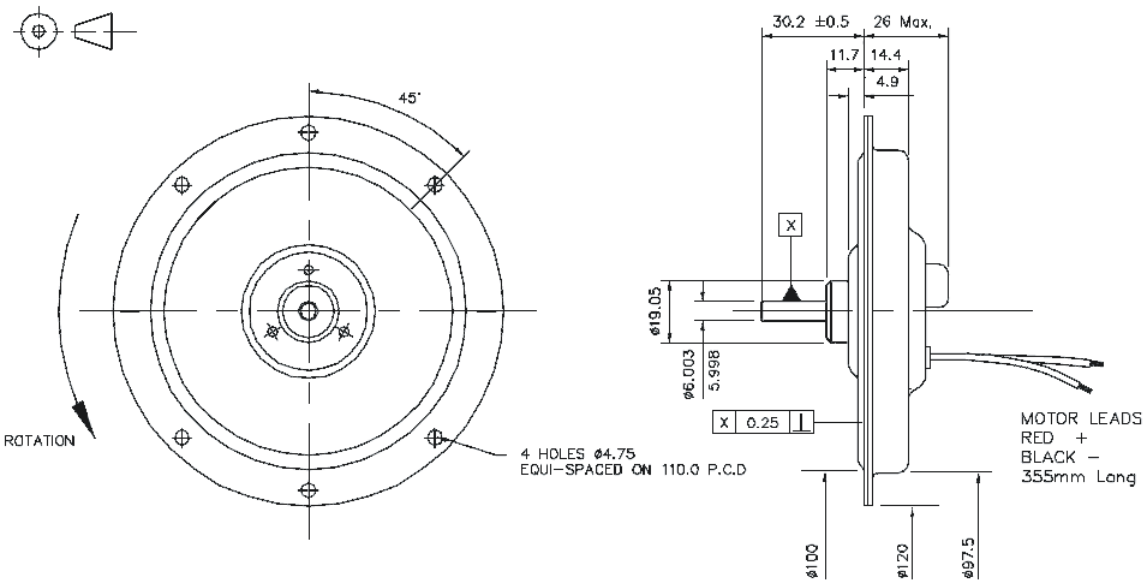
Printed Motor Works

Peak Torque **250 Ncm**
Cont. Torque **25 Ncm**
Cont. Power **75 Watts**
Speed **<1 to 6000 rpm**

The Printed Motor Works *GP*N9LR 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. This version utilises 'rare earth' magnets which give higher power to weight and size ratio compared with the 'M' version.

Motor Constants	Symbol	Unit	Value
Voltage	Ke	V/krpm	2.5
Torque	Kt	Ncm/Amp	2.4
Damping	Kd	Ncm/1000rpm	0.30
Friction	Tf	Ncm	1.2
Terminal Resistance	I	Ohm	0.42

Motor Ratings	Unit	Value
Voltage	Volts	12.0
Current	Amps	11.4
Torque	Ncm	25.0
Speed	RPM	2887
Power	Watts	75



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
Use in low ambient temperatures

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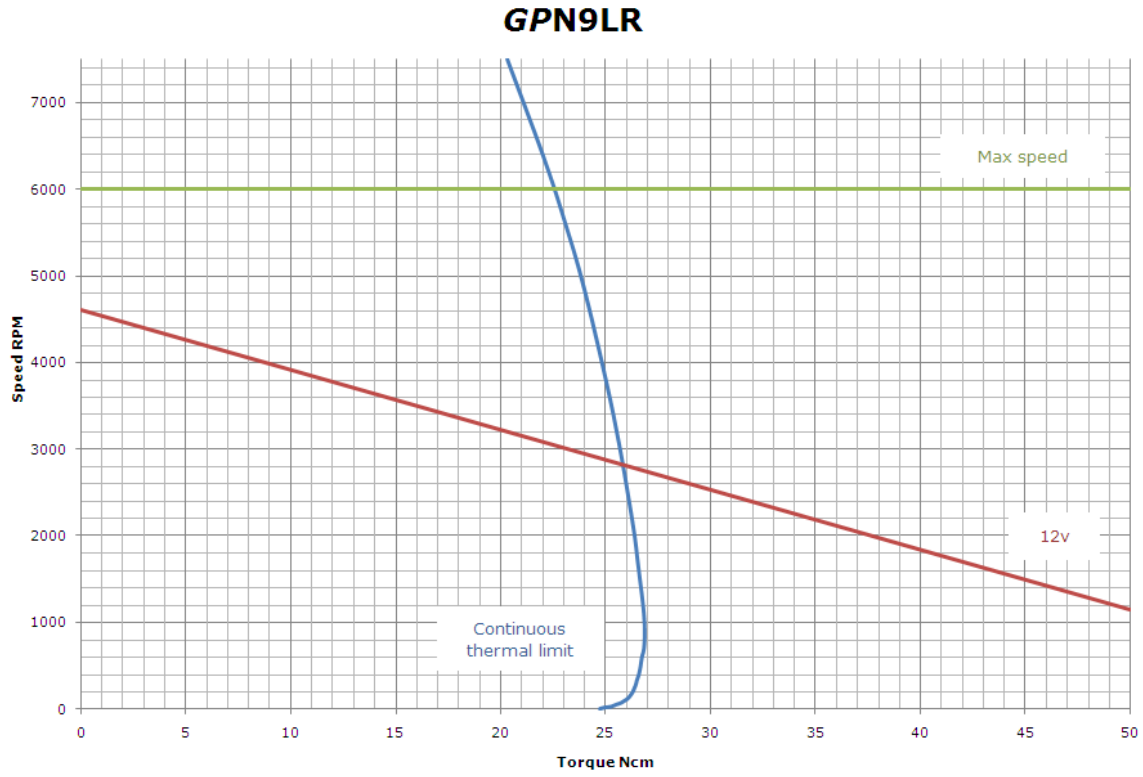

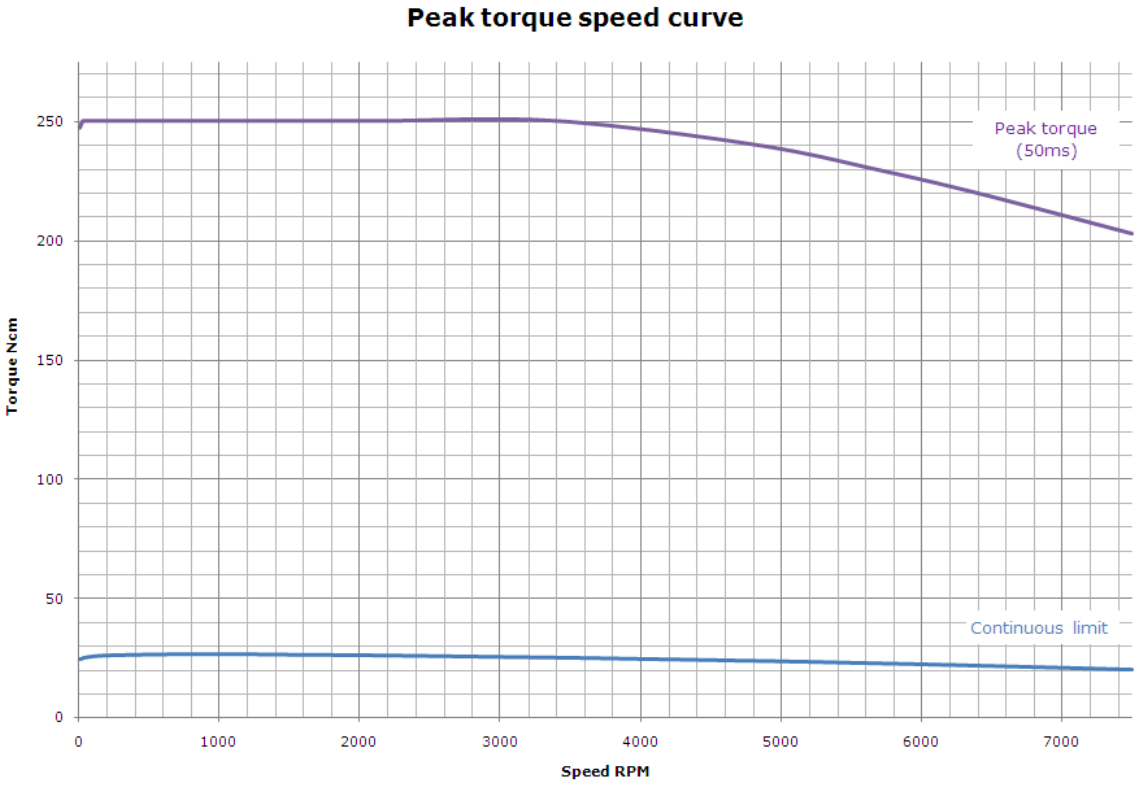

NOTE: The angle of the Torque/Speed curve remains the same for higher and lower voltages. The speed varies proportionally from zero rpm relative to the voltage supplied. The stated voltage is an example, not a predefined maximum or minimum. Due to ongoing product improvement data in this datasheet maybe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

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