GM9

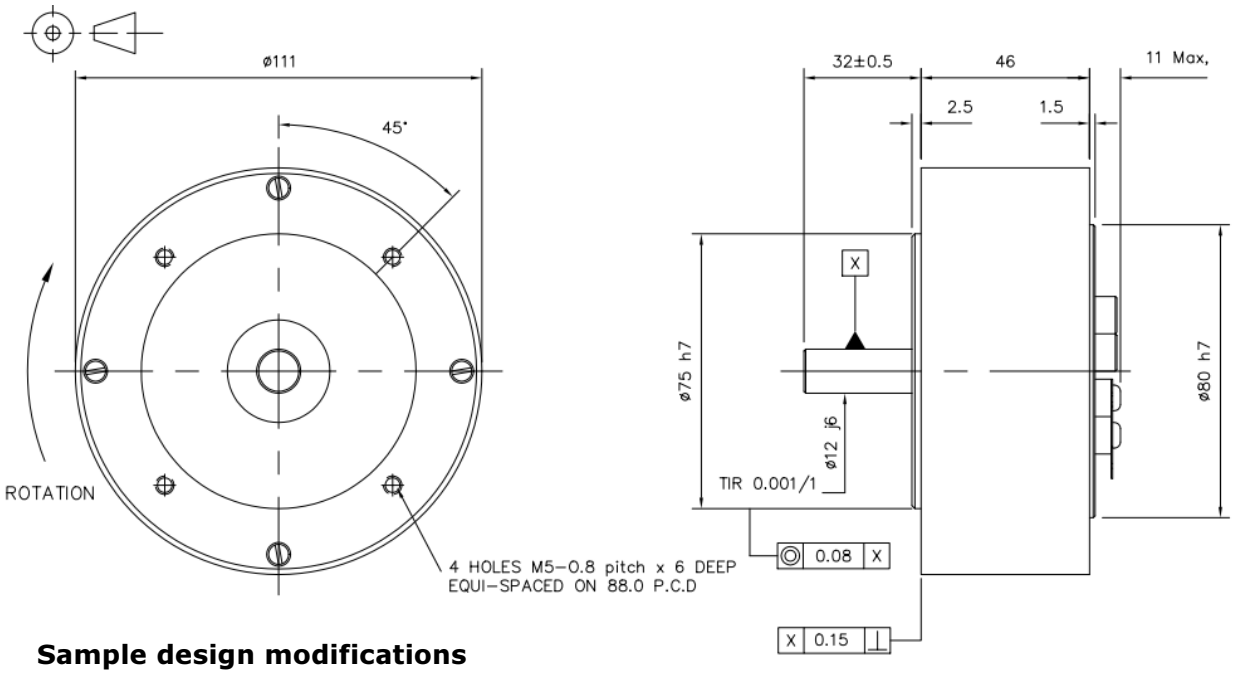
Printed Motor Works

Peak Torque **360 Ncm**
Cont. Torque **36 Ncm**
Cont. Power **113 Watts**
Speed **<1 to 6000 rpm**

The Printed Motor Works *GM9* is a precision DC servo motor with high power magnets. The motors are fitted with thermally stable AlNiCo magnets and can be tuned using the charge coils for optimum performance to customer's applications. The GM range is the original pancake motor type and has been successfully used in a variety of applications for decades.

Motor Constants	Symbol	Unit	Value
Voltage	Ke	V/krpm	4.9
Torque	Kt	Ncm/Amp	4.68
Damping	Kd	Ncm/1000rpm	0.56
Friction	Tf	Ncm	2.8
Terminal Resistance	Rm	Ohm	0.85
Moment of Inertia	J	Kg/cm²	0.409

Motor Ratings	Unit	Value
Voltage	Volts	22
Current	Amps	8.7
Torque	Ncm	36
Speed	RPM	3000
Power	Watts	113
Cont. Stall current	Amps	7.0



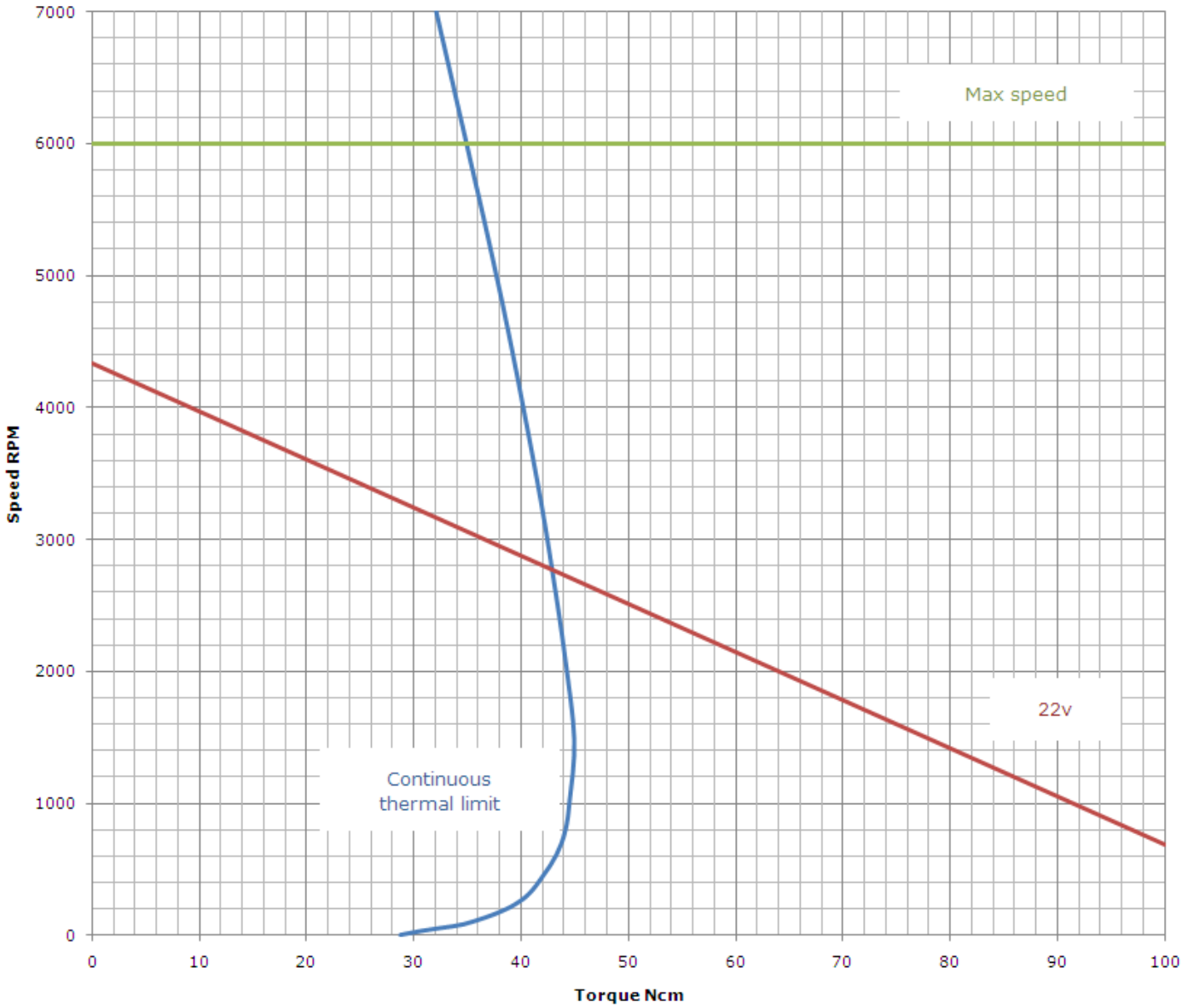
Sample design modifications

Shaft
Round shaft
Extra flats
Length variants
Cut gear
Imperial Sizes
Other modifications

Brushes
High altitude
Vacuum
High temperature

Extra
EMC suppression
Long leads
Connectors
Tri-rated cable
Imperial mounting spec.
Rated for operation in 150°C ambient

+44 (0) 1420 594 140
sales@printedmotorworks.com
Printed Motor Works
Newman Lane, Alton
Hampshire GU34 2QW, UK



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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Hampshire GU34 2QW, UK