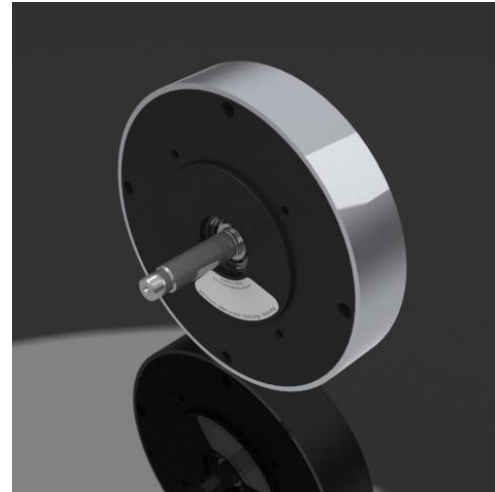


GN Series

Peak Torque **490 to 2550 Ncm**
 Cont. Torque **49 to 255 Ncm**
 Power **140 to 800 Watts**
 Speed **<1 to 6000 rpm**

The Printed Motor Works *GN* series is an exceptionally powerful and extremely accurate range of servo motors that provide all the advantages of the printed armature with the thin profile made possible by using rare earth magnet materials. The *GN* series is suitable for all types of industrial automation, robotics and scientific applications. *GN* motors are available in 3 sizes *GN9*, *GN12* and *GN16*.

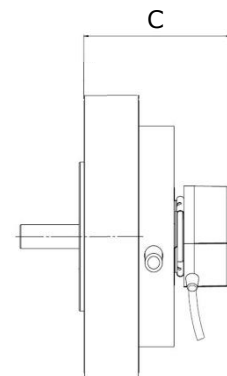
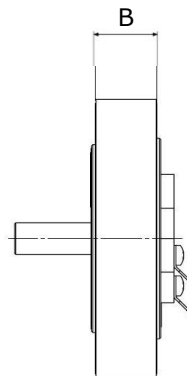
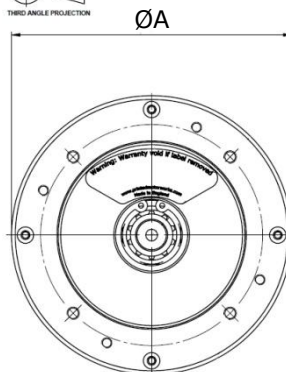


GN Series

Motor Ratings	Power	Torque	Speed	Voltage	Current	Cont. Stall Current	Diameter	Depth	Depth + Encoder
	P	T	N	V	I	IS	A	B	C
	Watt	Ncm	RPM	Volt	Amp	Amp	mm	mm	mm
<i>GN9</i>	154	49	3000	30	7.8	7.8	110	34.0	50.0
<i>GN12</i>	344	110	3000	49	9.2	8.9	140	25.8	41.8
<i>GN16</i>	800	255	3000	100	9.4	8.0	188	26.0	42.0

General benefits

- High peak torque output
- Zero cogging
- Low inertia
- Rapid acceleration
- Stable up to high temperatures
- High instantaneous torque
- Long brush life
- Controllable with servo amplifiers
- Design options include custom shaft, encoders, tachometers, gearboxes and pulleys



Standard Motor

Encoder Option

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



Printed Motor Works



GN Series

Applications:

Servo mechanisms, motion control, industrial robots, CNC machining, printing machinery, logistics solutions, medical mobility, medical scanners, flight simulators, marine autopilots and high ambient temperature ventilation, valve actuators and scientific instrumentation.

Markets:

Industrial automation, medical, life sciences, aerospace & defence, printing, logistics, instrumentation, test and measurement, oil & gas and offshore marine.

Design Modifications

- Encoders
- Timing pulleys
- Long leads
- Tri-rated cable
- Customised shafts
- EMC suppression
- Connectors
- US mounting configuration

Standard Encoder Option:

Motor	Counts per Rev. CPR	Channels	Type	Supply Voltage V
GN9	5000	A + B + I + Complementary	Optical	+ 5 - 24
GN12	5000	A + B + I + Complementary	Optical	+ 5 - 24
GN16	5000	A + B + I + Complementary	Optical	+ 5 - 24

Suggested Drives:

JUNUS *General speed control applications*



20-180Vdc for Velocity and Torque control with 6 digital I/O. 5Amp - 30Amp variants, RS232 communication.

ACCELNET *General servo applications*



20-180Vdc for Velocity, Torque and Position control with 11 digital I/O and Encoder feedback. 5Amp - 36Amp variants, RS232 & macro communication.

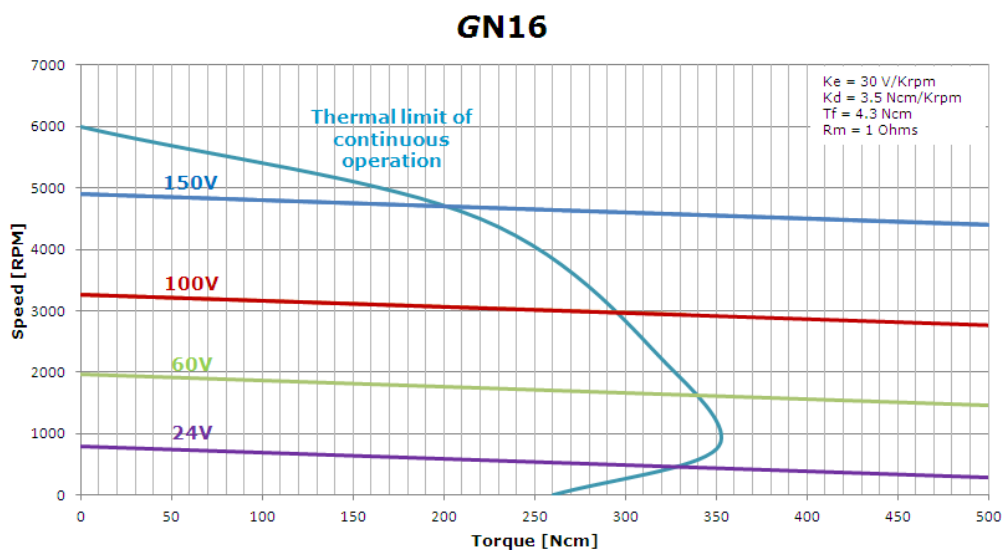
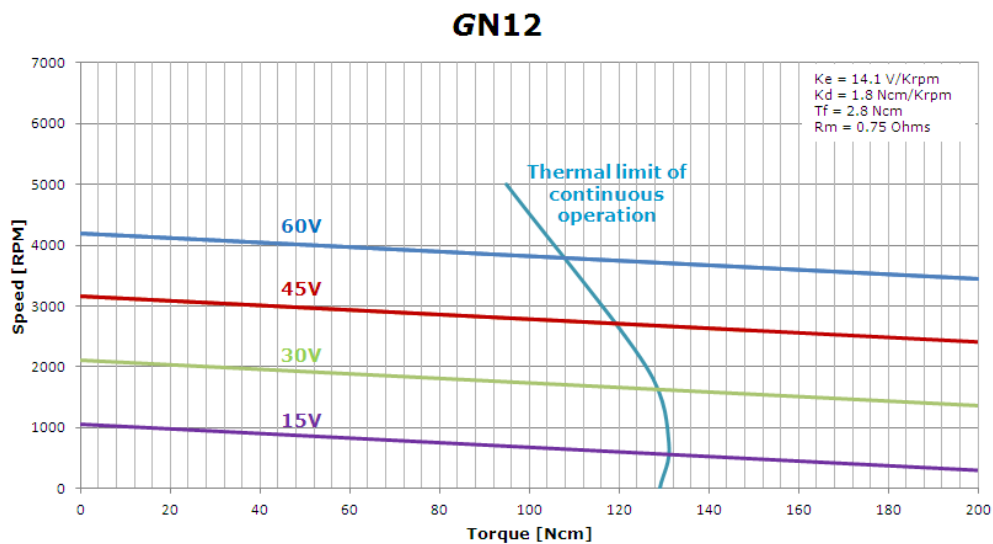
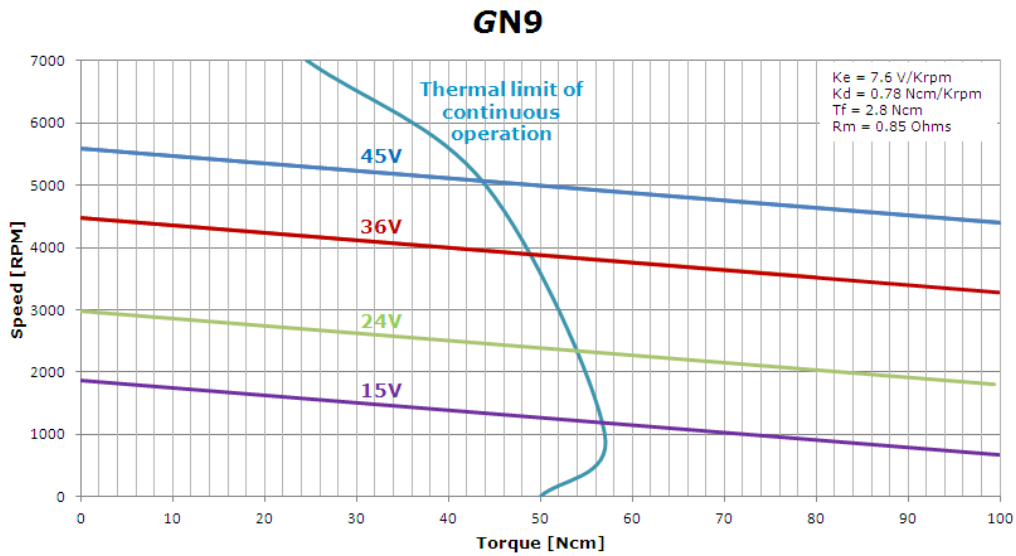
XENUS *Advanced servo control*

CANopen



110-230Vac for Camming, Gearing, Position, Velocity & Torque control with 16 digital I/O and multiple feedback options. A stand alone motion control device with CANopen & RS232 communication protocols.

GN Series



NOTE: The above voltages are examples, not a predefined maximum or minimum.
Due to ongoing product improvements data is subject to change without notice.

