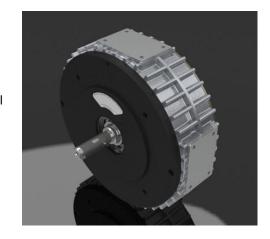
GR Series

Peak Torque Cont. Torque Power Speed 1334 to 3200 Ncm 133.4 to 320 Ncm 420 to 1000 Watts <1 to 6000 rpm

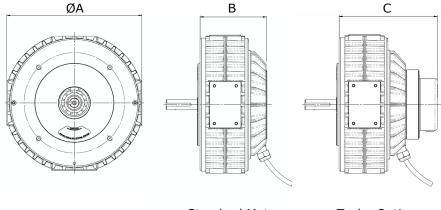
The Printed Motor Works *GR* series is an exceptionally powerful and extremely accurate range of servo motors that provide all the advantages of the printed armature with an extremely robust motor case for industrial automation and scientific applications. *GR* motors include air cooling ports, with removable covers, for use with external cooling fans to increase the thermal limit of continuous operation. *GR* motors are available in 3 sizes *GR*12, 16 and 19.



Motor Ratings	Power	Torque	Speed	Voltage	Current	Cont. Stall Current	Diameter	Depth	Depth + Tacho
	Р	Т	N	V	I	IS	Α	В	С
	Watt	Ncm	RPM	Volt	Amp	Amp	mm	mm	mm
GR12	420	133	3000	64	8.4	5.0	142	70.0	148
GR16	1050	334	3000	129	9.5	5.7	187	87.5	159
GR19	1000	320	3000	83	14.5	8.6	230	107.5	157

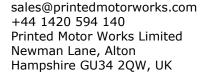
General benefits

- 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

Tacho Option







GR 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
- Tacho output voltage
- Tri-rated cable
- US mounting configuration
- Customised shafts
- **EMC** suppression
- Connectors
- Rated for operation in 150°C ambient
- Protective covers

Standard Tacho Option:

Motor	Output Voltage Gradient V/KRPM	Output Tolerance %	Voltage Ripple %	Rotor Inertia g/cm ²
GR12	3	+5 -0	5	350
<i>GR</i> 16	3	+5 -0	5	350
<i>GR</i> 19	3	+5 -0	5	350

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

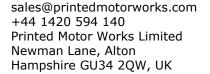


20-180Vdc for Velocity, Torque and Position control with 11 digital I/O and Encoder feedback. 5Amp - 36Amp variants, RS232 & macro communication.

XENUS Advanced servo control



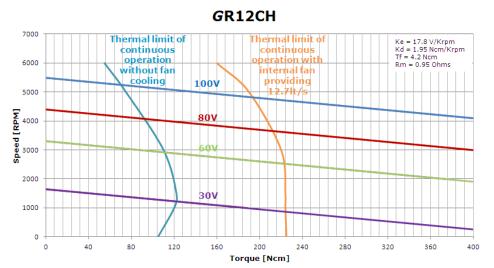
110-230Vac for Camming, Gearing, Position, Velocity & Torque control with 16 digital I/O and multiple feedback options. A stand alone motion control device with CANopen & RS232 communication protocols.



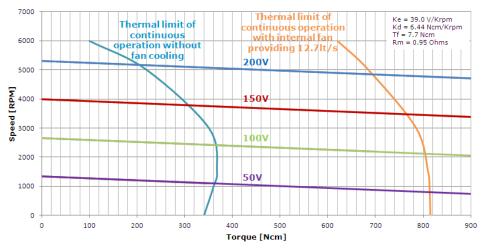




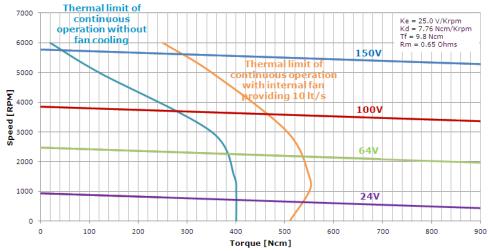
GR Series



GR16CH



GR19CH



NOTE: The above voltages are examples, not a predefined maximum or minimum.

Due to ongoing product improvements data is subject to change without notice.



