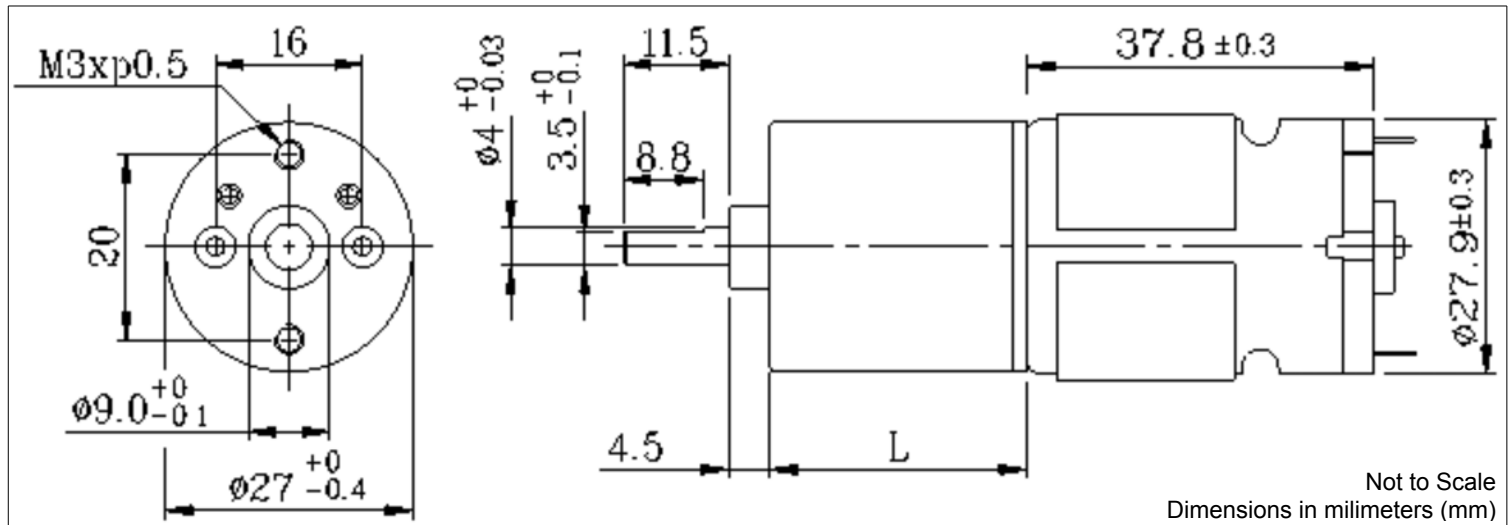


# Spur Gearmotor - 30 mm Ø



## 12 Volt Higher Torque Inline Spur Gearmotor

Global Motion Products



Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque mNm	Continuous Torque mNm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
9.6:1	12.0	73 %	657 rpm	0.225 Amp	263 mNm	37 mNm	14.7 mm	106.0	Opposite	S300010GM00
20.0:1	12.0	66 %	315 rpm	0.225 Amp	495 mNm	59 mNm	14.7 mm	107.0	Same	S300020GM00
41.6:1	12.0	59 %	151 rpm	0.225 Amp	923 mNm	98 mNm	19.4 mm	107.0	Opposite	S300042GM00
53.5:1	12.0	59 %	118 rpm	0.225 Amp	1,187 mNm	98 mNm	19.4 mm	108.0	Opposite	S300054GM00
86.7:1	12.0	53 %	73 rpm	0.225 Amp	1,726 mNm	118 mNm	19.4 mm	108.0	Same	S300087GM00
111.6:1	12.0	53 %	56 rpm	0.225 Amp	2,223 mNm	118 mNm	19.4 mm	108.0	Same	S300112GM00
180.5:1	12.0	48 %	35 rpm	0.225 Amp	3,257 mNm	157 mNm	24.1 mm	108.0	Opposite	S300181GM00
232.4:1	12.0	48 %	27 rpm	0.225 Amp	4,193 mNm	157 mNm	24.1 mm	109.0	Opposite	S300232GM00
376.1:1	12.0	43 %	17 rpm	0.225 Amp	6,079 mNm	196 mNm	24.1 mm	109.0	Same	S300376GM00
484.1:1	12.0	43 %	13 rpm	0.225 Amp	7,825 mNm	196 mNm	24.1 mm	109.0	Same	S300484GM00
783.6:1	12.0	39 %	8 rpm	0.225 Amp	11,487 mNm	245 mNm	26.6 mm	109.0	Opposite	S300784GM00
1,008.6	12.0	39 %	6 rpm	0.225 Amp	14,786 mNm	245 mNm	26.6 mm	109.0	Same	S301009GM00

Radial Load Rating  $\leq 2.9$  N  
 Radial Load Distance 10 mm  
 Axial Load  $\leq 2.0$  N  
 Press Fit Force - Max  $\leq 19.6$  N

Radial Play  $\leq 0.05$  mm  
 Axial Play  $\leq 0.30$  mm  
 Backlash  $\leq 2.0^\circ$

Max Temperature Oper.  $-10^\circ\text{C}$   
 Min Temperature Oper.  $60^\circ\text{C}$   
 Relative Humidity Oper. 20% to 85%  
 Options: Bearing, Sleeve

**CAUTION.** Stall Torque is a theoretical calculation- NOT a rating/maximum value. Continuous Torque is the lesser of the Gearbox Continuous Torque Rating or the Motor's Continuous Torque Rating at gearbox output shaft.

Options: Magnetic Encoders, Leads, Connectors, Pinion/Gear Mounting, Lubricants, Motor Windings, Gear material, Coreless Motors.

\* Rotational Sense of Gearbox Output Shaft to Motor Shaft

Global Motion Products  
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 Precision Motion Distributors: (925) 803-9565  
 Technical Support: (760) 451-2723  
<http://www.gmpwebsite.com> Email: [info@gmpwebsite.com](mailto:info@gmpwebsite.com)

Commutation Type:  
 Metal Graphite

RoHS Compliant

A - June 2011

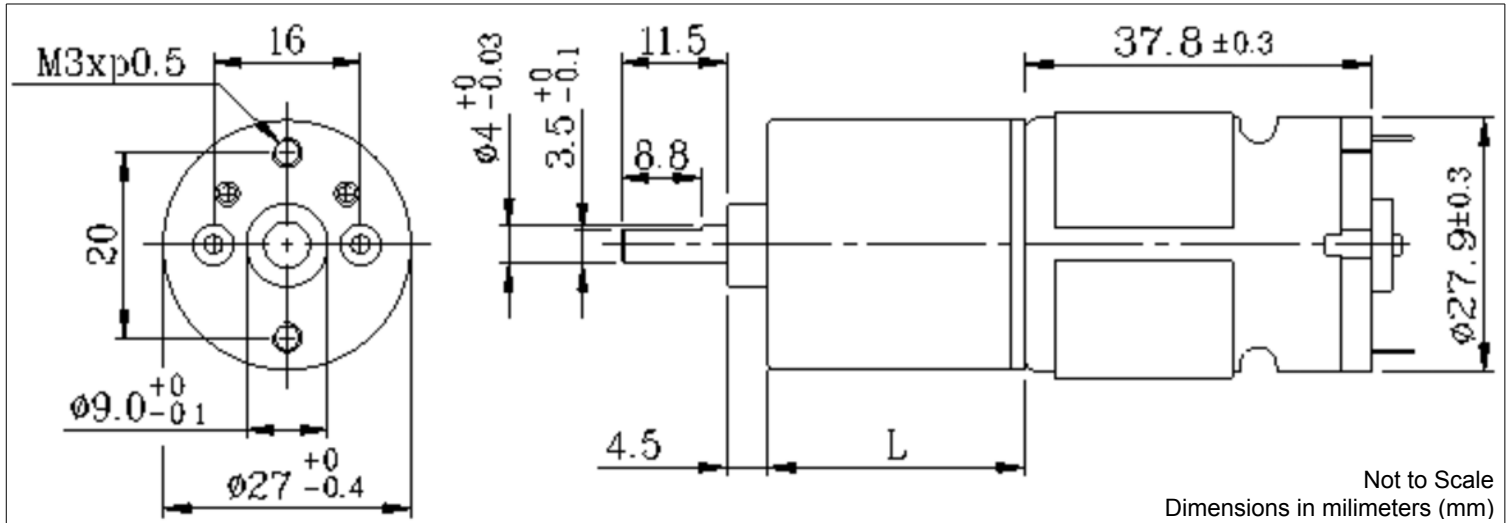
Specifications Subject to change without notice

# Spur Gearmotor - 30 mm Ø



## 24 Volt Higher Torque Inline Spur Gearmotor

Global Motion Products



Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque mNm	Continuous Torque mNm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
9.6:1	24.0	73 %	653 rpm	0.105 Amp	206 mNm	40 mNm	14.7 mm	106.0	Opposite	S300010GM10
20.0:1	24.0	66 %	313 rpm	0.105 Amp	389 mNm	59 mNm	14.7 mm	107.0	Same	S300020GM10
41.6:1	24.0	59 %	150 rpm	0.105 Amp	724 mNm	98 mNm	19.4 mm	107.0	Opposite	S300042GM10
53.5:1	24.0	59 %	117 rpm	0.105 Amp	931 mNm	98 mNm	19.4 mm	108.0	Opposite	S300054GM10
86.7:1	24.0	53 %	72 rpm	0.105 Amp	1,354 mNm	118 mNm	19.4 mm	108.0	Same	S300087GM10
111.6:1	24.0	53 %	56 rpm	0.105 Amp	1,743 mNm	118 mNm	19.4 mm	108.0	Same	S300112GM10
180.5:1	24.0	48 %	35 rpm	0.105 Amp	2,555 mNm	157 mNm	24.1 mm	108.0	Opposite	S300181GM10
232.4:1	24.0	48 %	27 rpm	0.105 Amp	3,289 mNm	157 mNm	24.1 mm	109.0	Opposite	S300232GM10
376.1:1	24.0	43 %	17 rpm	0.105 Amp	4,769 mNm	196 mNm	24.1 mm	109.0	Same	S300376GM10
484.1:1	24.0	43 %	13 rpm	0.105 Amp	6,139 mNm	196 mNm	24.1 mm	109.0	Same	S300484GM10
783.6:1	24.0	39 %	8 rpm	0.105 Amp	9,011 mNm	245 mNm	26.6 mm	109.0	Opposite	S300784GM10
1,008.6	24.0	39 %	6 rpm	0.105 Amp	11,599 mNm	245 mNm	26.6 mm	109.0	Same	S301009GM10

Radial Load Rating  $\leq 2.9$  N  
 Radial Load Distance 10 mm  
 Axial Load  $\leq 2.0$  N  
 Press Fit Force - Max  $\leq 19.6$  N

Radial Play  $\leq 0.05$  mm  
 Axial Play  $\leq 0.30$  mm  
 Backlash  $\leq 2.0^\circ$

Max Temperature Oper.  $-10^\circ\text{C}$   
 Min Temperature Oper.  $60^\circ\text{C}$   
 Relative Humidity Oper. 20% to 85%  
 Options: Bearing, Sleeve

**CAUTION.** Stall Torque is a theoretical calculation- NOT a rating/maximum value. Continuous Torque is the lesser of the Gearbox Continuous Torque Rating or the Motor's Continuous Torque Rating at gearbox output shaft.

Options: Magnetic Encoders, Leads, Connectors, Pinion/Gear Mounting, Lubricants, Motor Windings, Gear material, Coreless Motors.

\* Rotational Sense of Gearbox Output Shaft to Motor Shaft

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Commutation Type:  
 Metal Graphite

RoHS Compliant

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