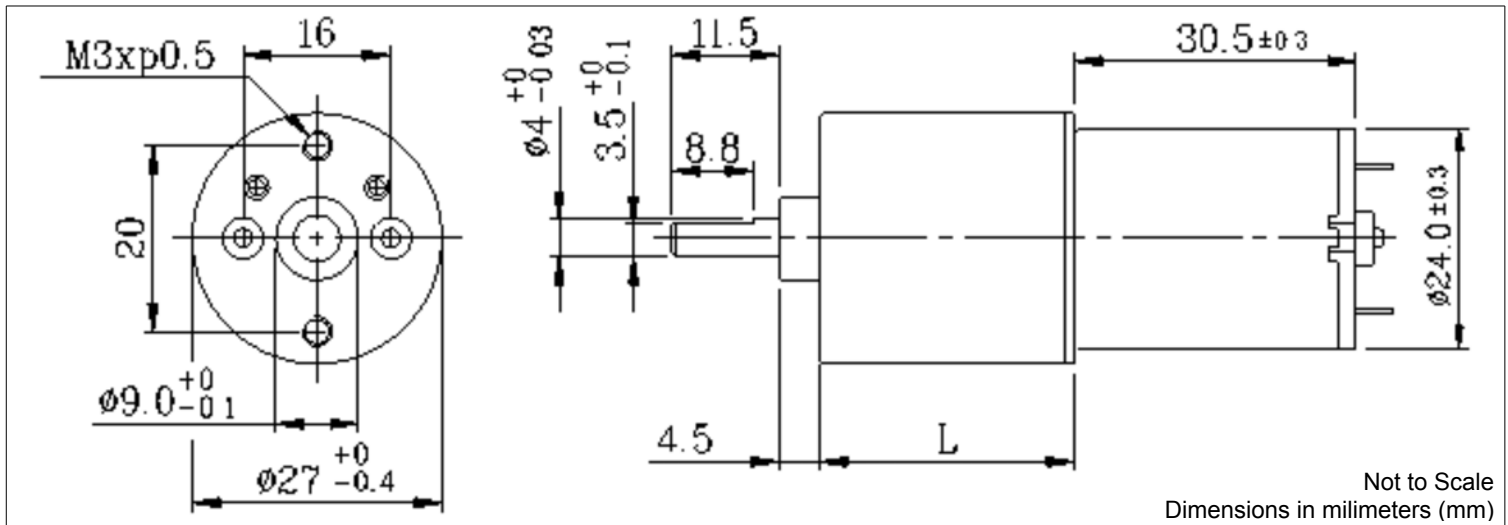


# Spur Gearmotor - 27 mm Ø



## 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 %	435 rpm	0.075 Amp	48 mNm	15 mNm	14.7 mm	83.0 grams	Opposite	S270010GM00
20.0:1	12.0	66 %	209 rpm	0.075 Amp	91 mNm	27 mNm	14.7 mm	84.0 grams	Same	S270020GM00
41.6:1	12.0	59 %	100 rpm	0.075 Amp	169 mNm	53 mNm	19.4 mm	84.0 grams	Opposite	S270042GM00
53.5:1	12.0	59 %	78 rpm	0.075 Amp	218 mNm	68 mNm	19.4 mm	85.0 grams	Opposite	S270054GM00
86.7:1	12.0	53 %	48 rpm	0.075 Amp	317 mNm	98 mNm	19.4 mm	85.0 grams	Same	S270087GM00
111.6:1	12.0	53 %	37 rpm	0.075 Amp	408 mNm	118 mNm	19.4 mm	85.0 grams	Same	S270112GM00
180.5:1	12.0	48 %	23 rpm	0.075 Amp	597 mNm	157 mNm	24.1 mm	85.0 grams	Opposite	S270181GM00
232.4:1	12.0	48 %	18 rpm	0.075 Amp	769 mNm	157 mNm	24.1 mm	86.0 grams	Opposite	S270232GM00
376.1:1	12.0	43 %	11 rpm	0.075 Amp	1,115 mNm	196 mNm	24.1 mm	86.0 grams	Same	S270376GM00
484.1:1	12.0	43 %	9 rpm	0.075 Amp	1,435 mNm	196 mNm	24.1 mm	86.0 grams	Same	S270484GM00
783.6:1	12.0	39 %	5 rpm	0.075 Amp	2,106 mNm	245 mNm	26.6 mm	86.0 grams	Opposite	S270784GM00
1,008.6	12.0	39 %	4 rpm	0.075 Amp	2,711 mNm	245 mNm	26.6 mm	86.0 grams	Same	S271009GM00

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

Radial Play ≤ 0.05 mm  
 Axial Play ≤ 0.30 mm  
 Backlash ≤ 2.0 °

Max Temperature Oper. -10°C  
 Min Temperature Oper. 60°C  
 Relative Humidity Oper. 20% to 85%

**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.

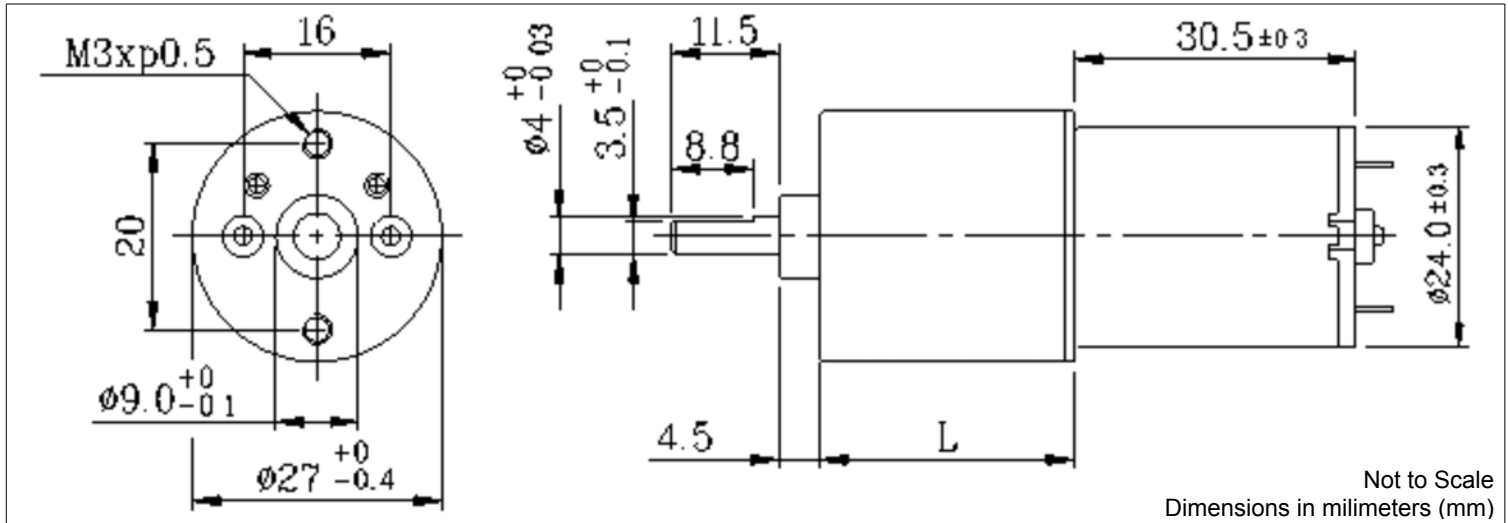
\* Rotational Sense of Gearbox Output Shaft to Motor Shaft

# Spur Gearmotor - 27 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 %	460 rpm	0.045 Amp	249 mNm	16 mNm	14.7 mm	83.0 grams	Opposite	S270010GM10
20.0:1	24.0	66 %	221 rpm	0.045 Amp	469 mNm	30 mNm	14.7 mm	84.0 grams	Same	S270020GM10
41.6:1	24.0	59 %	106 rpm	0.045 Amp	873 mNm	58 mNm	19.4 mm	84.0 grams	Opposite	S270042GM10
53.5:1	24.0	59 %	82 rpm	0.045 Amp	1,124 mNm	74 mNm	19.4 mm	85.0 grams	Opposite	S270054GM10
86.7:1	24.0	53 %	51 rpm	0.045 Amp	1,634 mNm	108 mNm	19.4 mm	85.0 grams	Same	S270087GM10
111.6:1	24.0	53 %	40 rpm	0.045 Amp	2,104 mNm	118 mNm	19.4 mm	85.0 grams	Same	S270112GM10
180.5:1	24.0	48 %	24 rpm	0.045 Amp	3,084 mNm	157 mNm	24.1 mm	85.0 grams	Opposite	S270181GM10
232.4:1	24.0	48 %	19 rpm	0.045 Amp	3,969 mNm	157 mNm	24.1 mm	86.0 grams	Opposite	S270232GM10
376.1:1	24.0	43 %	12 rpm	0.045 Amp	5,755 mNm	196 mNm	24.1 mm	86.0 grams	Same	S270376GM10
484.1:1	24.0	43 %	9 rpm	0.045 Amp	7,408 mNm	196 mNm	24.1 mm	86.0 grams	Same	S270484GM10
783.6:1	24.0	39 %	6 rpm	0.045 Amp	10,874 mNm	245 mNm	26.6 mm	86.0 grams	Opposite	S270784GM10
1,008.6	24.0	39 %	4 rpm	0.045 Amp	13,997 mNm	245 mNm	26.6 mm	86.0 grams	Same	S271009GM10

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

Radial Play ≤ 0.05 mm  
 Axial Play ≤ 0.30 mm  
 Backlash ≤ 2.0 °

Max Temperature Oper. -10°C  
 Min Temperature Oper. 60°C  
 Relative Humidity Oper. 20% to 85%

**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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 Metal Graphite

RoHS Compliant

A - June 2011

Specifications Subject to change without notice