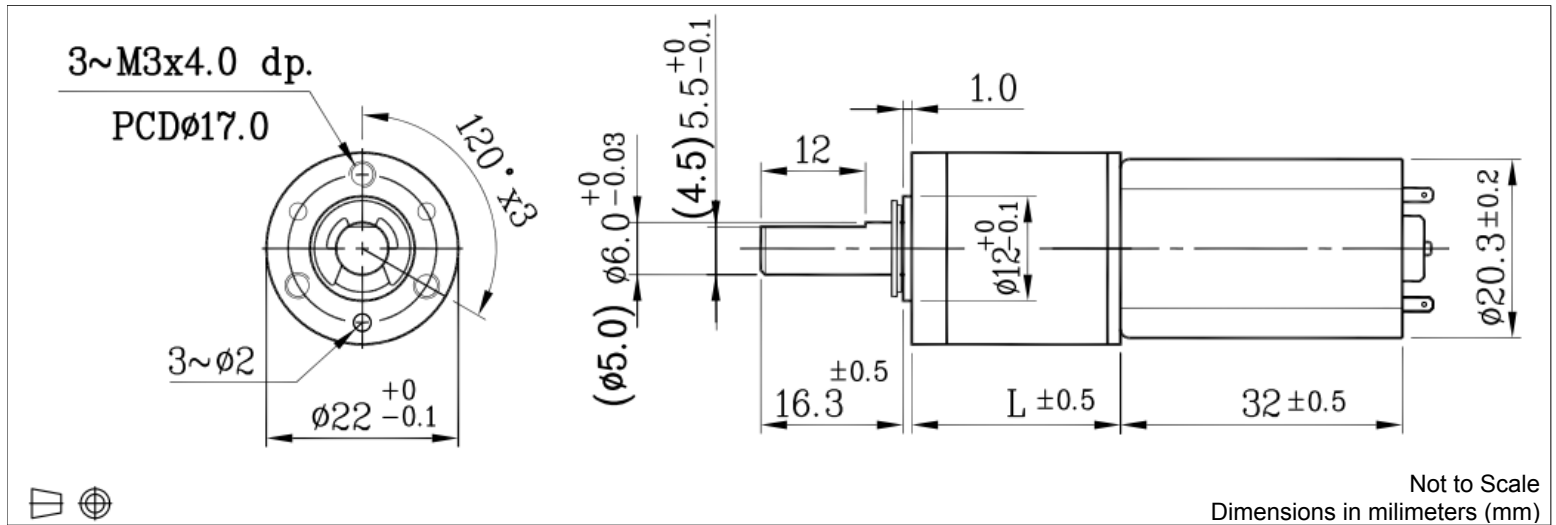


Planetary Gearmotor - 22 mm Ø



High Torque

Global Motion Products



Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
5:1	12.0	50 %	1,682 rpm	0.070 Amp	0.03 Nm	0.008 Nm	23.3 mm	78.0 grams	Same	A220005HM00
18:1	12.0	70 %	435 rpm	0.070 Amp	0.15 Nm	0.026 Nm	29.5 mm	83.0 grams	Same	A220018HM00
20:1	12.0	70 %	390 rpm	0.070 Amp	0.17 Nm	0.030 Nm	29.5 mm	83.0 grams	Same	A220020HM00
25:1	12.0	70 %	314 rpm	0.070 Amp	0.21 Nm	0.037 Nm	29.5 mm	83.0 grams	Same	A220025HM00
66:1	12.0	60 %	119 rpm	0.070 Amp	0.49 Nm	0.083 Nm	35.7 mm	90.0 grams	Same	A220066HM00
77:1	12.0	60 %	102 rpm	0.070 Amp	0.57 Nm	0.098 Nm	35.7 mm	90.0 grams	Same	A220077HM00
90:1	12.0	60 %	87 rpm	0.070 Amp	0.66 Nm	0.113 Nm	35.7 mm	90.0 grams	Same	A220090HM00
110:1	12.0	60 %	71 rpm	0.070 Amp	0.81 Nm	0.137 Nm	35.7 mm	90.0 grams	Same	A220110HM00
136:1	12.0	60 %	58 rpm	0.070 Amp	1.00 Nm	0.167 Nm	35.7 mm	90.0 grams	Same	A220136HM00
246:1	12.0	50 %	32 rpm	0.070 Amp	1.51 Nm	0.255 Nm	41.9 mm	97.0 grams	Same	A220246HM00
336:1	12.0	50 %	23 rpm	0.070 Amp	2.06 Nm	0.363 Nm	41.9 mm	97.0 grams	Same	A220336HM00
393:1	12.0	50 %	20 rpm	0.070 Amp	2.41 Nm	0.412 Nm	41.9 mm	97.0 grams	Same	A220393HM00

Radial Load Rating ≤ 9.8 N
 Radial Load Distance 10 mm
 Axial Load ≤ 6.9 N
 Press Fit Force - Max ≤ 58.8 N

Radial Play ≤ 0.05 mm
 Thrust Play ≤ 0.30 mm
 Backlash ≤ 2.5 °

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

Options Bearing Sleeve
 Magnetic Encoders. Ball Bearings. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.

CAUTION.

Stall Torque is a theoretical calculation and IS NOT a rating or maximum value.

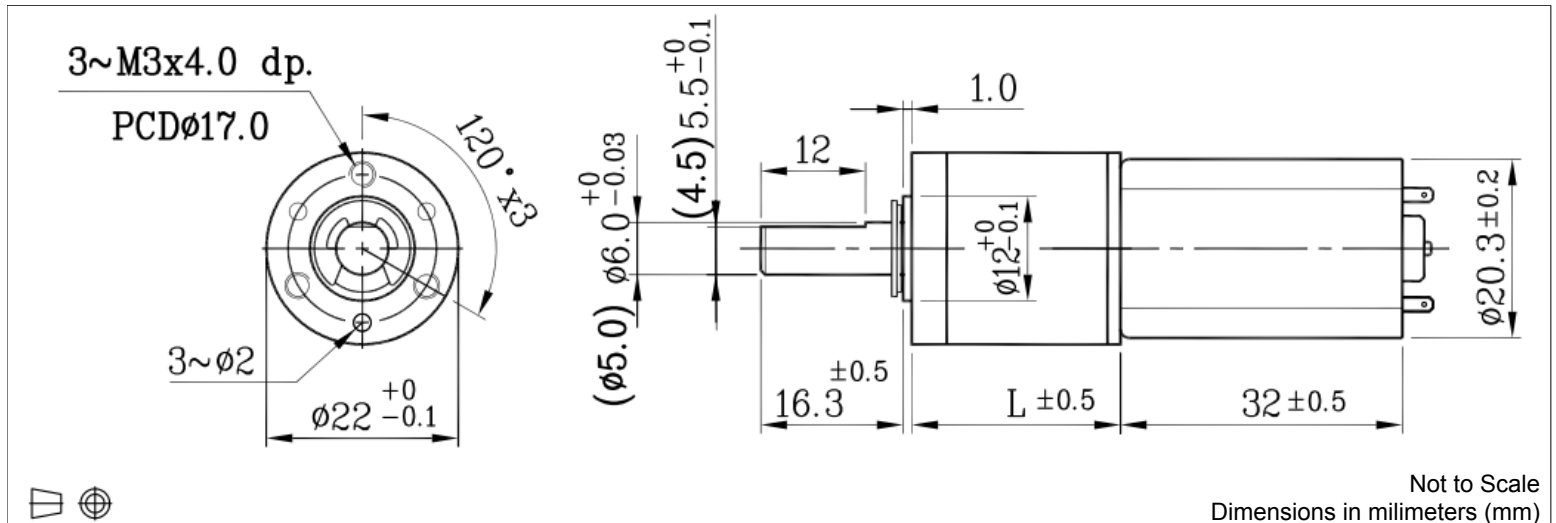
* Rotational Sense of Gearbox Output Shaft to Motor Shaft

Planetary Gearmotor - 22 mm Ø



High Torque

Global Motion Products



Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
484:1	12.0	50 %	16 rpm	0.070 Amp	2.97 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220484HM00
597:1	12.0	50 %	13 rpm	0.070 Amp	3.66 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220597HM00
735:1	12.0	50 %	11 rpm	0.070 Amp	4.50 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220735HM00
1,079:1	12.0	40 %	7 rpm	0.070 Amp	5.29 Nm	0.588 Nm	48.1 mm	104.0	Same	A221079HM00
1,475:1	12.0	40 %	5 rpm	0.070 Amp	7.23 Nm	0.588 Nm	48.1 mm	104.0	Same	A221475HM00
2,124:1	12.0	40 %	4 rpm	0.070 Amp	10.41 Nm	0.588 Nm	48.1 mm	104.0	Same	A222124HM00
3,968:1	12.0	40 %	2 rpm	0.070 Amp	19.45 Nm	0.588 Nm	48.1 mm	104.0	Same	A223968HM00

Radial Load Rating	≤ 9.8 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.30 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 6.9 N	Backlash	≤ 2.5 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 58.8 N	Options	Bearing	Sleeve	
CAUTION.					
Magnetic Encoders. Ball Bearings. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.					

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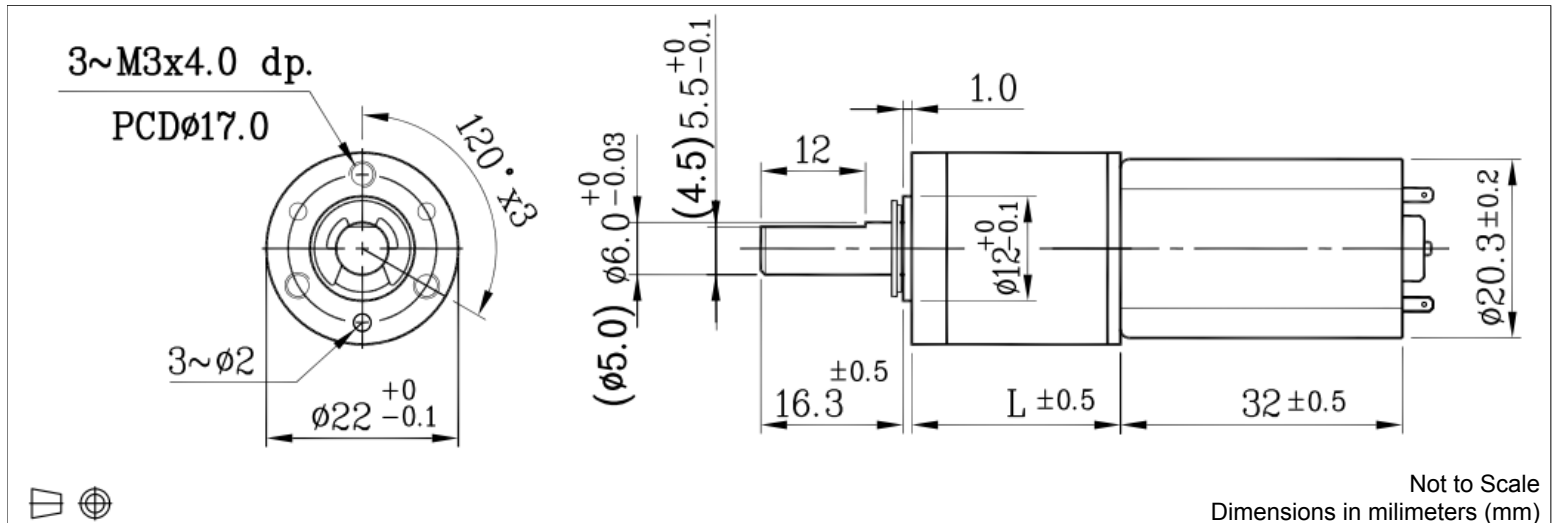
* Rotational Sense of Gearbox Output Shaft to Motor Shaft

Planetary Gearmotor - 22 mm Ø



High Torque

Global Motion Products



Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
5:1	24.0	50 %	1,858 rpm	0.040 Amp	0.03 Nm	0.008 Nm	23.3 mm	78.0 grams	Same	A220005HM10
18:1	24.0	70 %	481 rpm	0.040 Amp	0.14 Nm	0.026 Nm	29.5 mm	83.0 grams	Same	A220018HM10
20:1	24.0	70 %	431 rpm	0.040 Amp	0.16 Nm	0.030 Nm	29.5 mm	83.0 grams	Same	A220020HM10
25:1	24.0	70 %	346 rpm	0.040 Amp	0.20 Nm	0.037 Nm	29.5 mm	83.0 grams	Same	A220025HM10
66:1	24.0	60 %	131 rpm	0.040 Amp	0.45 Nm	0.083 Nm	35.7 mm	90.0 grams	Same	A220066HM10
77:1	24.0	60 %	112 rpm	0.040 Amp	0.52 Nm	0.098 Nm	35.7 mm	90.0 grams	Same	A220077HM10
90:1	24.0	60 %	96 rpm	0.040 Amp	0.61 Nm	0.113 Nm	35.7 mm	90.0 grams	Same	A220090HM10
110:1	24.0	60 %	79 rpm	0.040 Amp	0.75 Nm	0.137 Nm	35.7 mm	90.0 grams	Same	A220110HM10
136:1	24.0	60 %	64 rpm	0.040 Amp	0.92 Nm	0.167 Nm	35.7 mm	90.0 grams	Same	A220136HM10
246:1	24.0	50 %	35 rpm	0.040 Amp	1.39 Nm	0.255 Nm	41.9 mm	97.0 grams	Same	A220246HM10
336:1	24.0	50 %	26 rpm	0.040 Amp	1.90 Nm	0.363 Nm	41.9 mm	97.0 grams	Same	A220336HM10
393:1	24.0	50 %	22 rpm	0.040 Amp	2.22 Nm	0.412 Nm	41.9 mm	97.0 grams	Same	A220393HM10

Radial Load Rating	≤ 9.8 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.30 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 6.9 N	Backlash	≤ 2.5 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 58.8 N	Options	Bearing	Sleeve	
CAUTION. Magnetic Encoders. Ball Bearings. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.					

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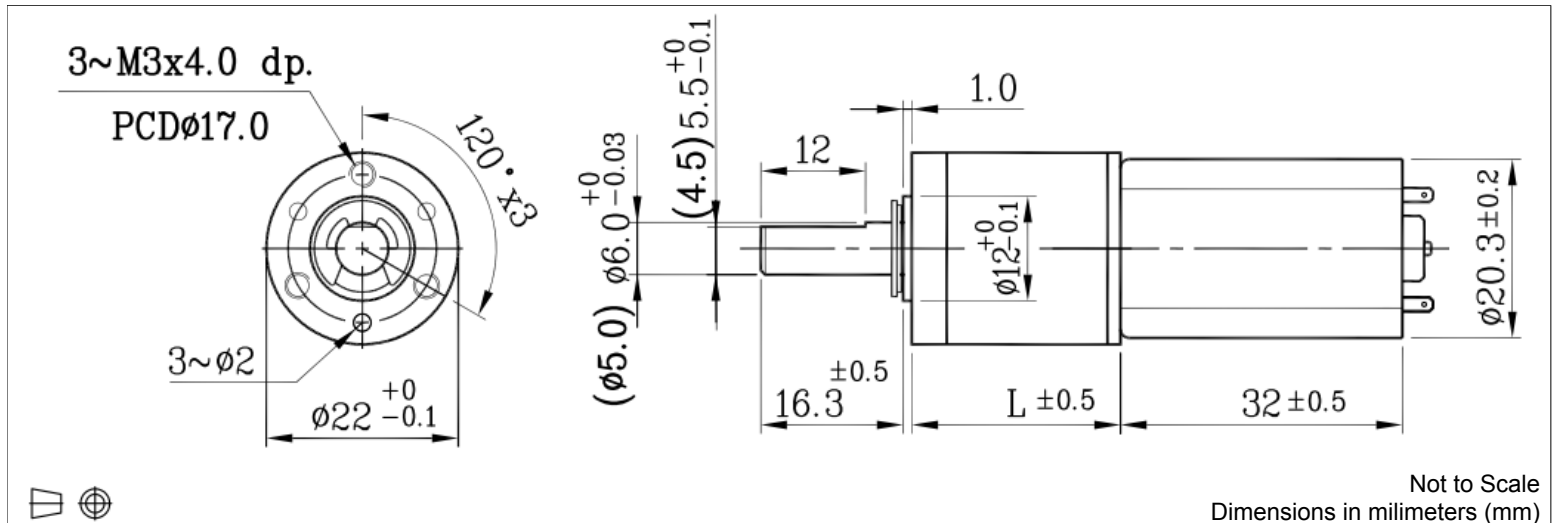
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Planetary Gearmotor - 22 mm Ø



High Torque

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Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Gearmotor Mass grams	Direction of Rotation*	Order Part Number
484:1	24.0	50 %	18 rpm	0.040 Amp	2.73 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220484HM10
597:1	24.0	50 %	14 rpm	0.040 Amp	3.37 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220597HM10
735:1	24.0	50 %	12 rpm	0.040 Amp	4.15 Nm	0.490 Nm	41.9 mm	97.0 grams	Same	A220735HM10
1,079:1	24.0	40 %	8 rpm	0.040 Amp	4.87 Nm	0.588 Nm	48.1 mm	104.0	Same	A221079HM10
1,475:1	24.0	40 %	6 rpm	0.040 Amp	6.66 Nm	0.588 Nm	48.1 mm	104.0	Same	A221475HM10
2,124:1	24.0	40 %	4 rpm	0.040 Amp	9.59 Nm	0.588 Nm	48.1 mm	104.0	Same	A222124HM10
3,968:1	24.0	40 %	2 rpm	0.040 Amp	17.91 Nm	0.588 Nm	48.1 mm	104.0	Same	A223968HM10

Radial Load Rating	≤ 9.8 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.30 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 6.9 N	Backlash	≤ 2.5 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 58.8 N	Options	Bearing	Sleeve	

CAUTION. Magnetic Encoders. Ball Bearings. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.

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* Rotational Sense of Gearbox Output Shaft to Motor Shaft

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