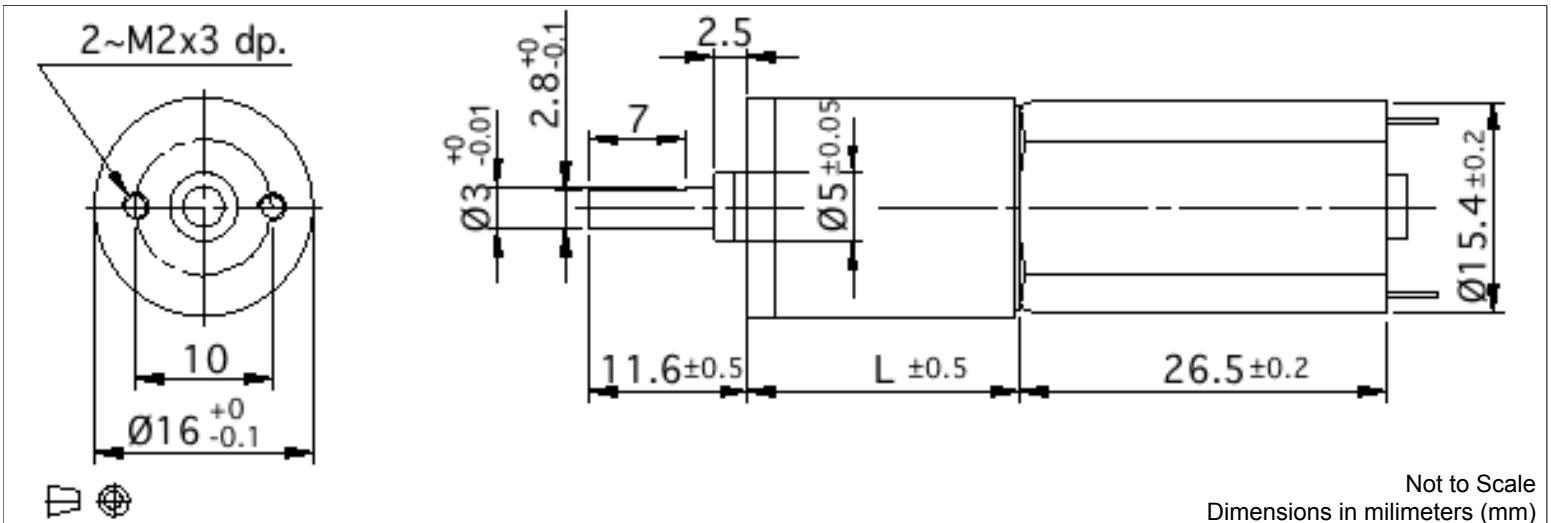


Planetary Gearmotor - 16 mm Ø



A16 •••• AS10

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
4:1	6 Volts	80 %	2,000 rpm	0.065 Amp	0.01 Nm	0.003 Nm	15.1 mm	37.0 grams	Same	A160004GM10
14:1	6 Volts	70 %	571 rpm	0.065 Amp	0.03 Nm	0.007 Nm	18.7 mm	41.0 grams	Same	A160014GM10
19:1	6 Volts	70 %	421 rpm	0.065 Amp	0.04 Nm	0.009 Nm	18.7 mm	41.0 grams	Same	A160019GM10
29:1	6 Volts	60 %	276 rpm	0.065 Amp	0.05 Nm	0.015 Nm	22.4 mm	45.0 grams	Same	A160029GM10
62:1	6 Volts	60 %	129 rpm	0.065 Amp	0.10 Nm	0.026 Nm	22.4 mm	45.0 grams	Same	A160062GM10
72:1	6 Volts	60 %	111 rpm	0.065 Amp	0.12 Nm	0.031 Nm	22.4 mm	45.0 grams	Same	A160072GM10
84:1	6 Volts	60 %	95 rpm	0.065 Amp	0.14 Nm	0.036 Nm	22.4 mm	45.0 grams	Same	A160084GM10
104:1	6 Volts	60 %	77 rpm	0.065 Amp	0.17 Nm	0.045 Nm	22.4 mm	45.0 grams	Same	A160104GM10
128:1	6 Volts	60 %	62 rpm	0.065 Amp	0.21 Nm	0.055 Nm	22.4 mm	45.0 grams	Same	A160128GM10
157:1	6 Volts	60 %	51 rpm	0.065 Amp	0.26 Nm	0.069 Nm	22.4 mm	45.0 grams	Same	A160157GM10
231:1	6 Volts	50 %	35 rpm	0.065 Amp	0.31 Nm	0.084 Nm	26.0 mm	49.0 grams	Same	A160231GM10
316:1	6 Volts	50 %	25 rpm	0.065 Amp	0.43 Nm	0.114 Nm	26.0 mm	49.0 grams	Same	A160316GM10
370:1	6 Volts	50 %	22 rpm	0.065 Amp	0.50 Nm	0.133 Nm	26.0 mm	49.0 grams	Same	A160370GM10

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.

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

* Rotational Sense of Gearbox Output Shaft to Motor Shaft

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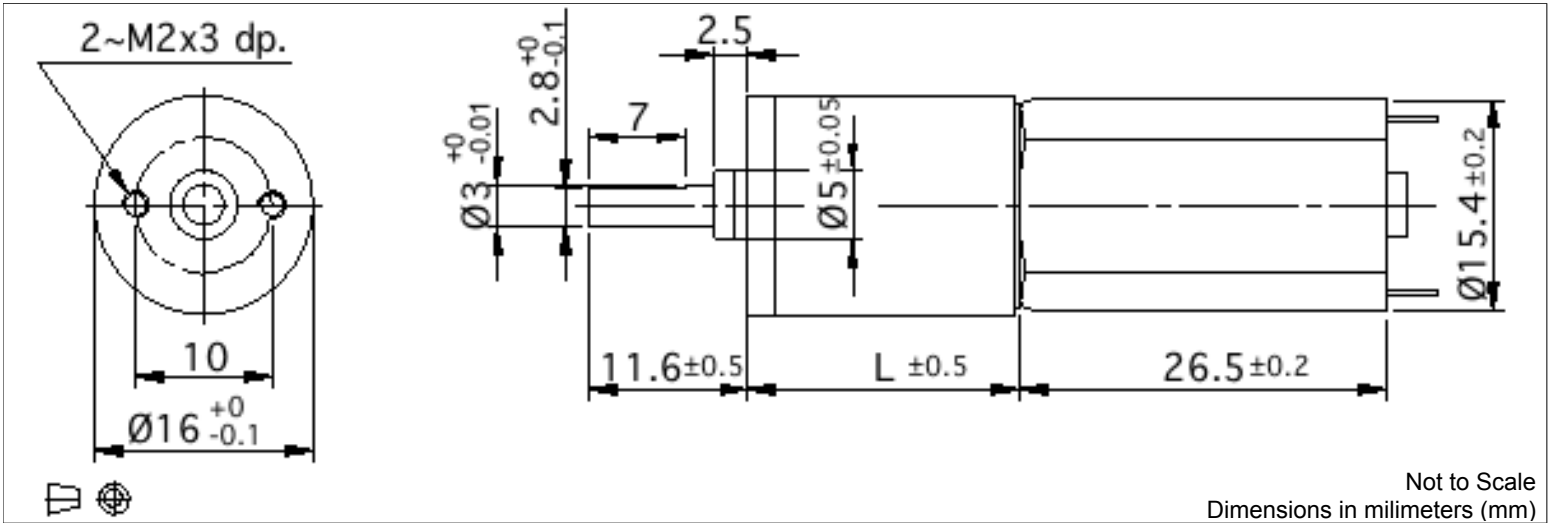
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS10

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
455:1	6 Volts	50 %	18 rpm	0.065 Amp	0.62 Nm	0.165 Nm	26.0 mm	49.0 grams	Same	A160455GM10
561:1	6 Volts	50 %	14 rpm	0.065 Amp	0.76 Nm	0.201 Nm	26.0 mm	49.0 grams	Same	A160561GM10
690:1	6 Volts	50 %	12 rpm	0.065 Amp	0.94 Nm	0.245 Nm	26.0 mm	49.0 grams	Same	A160690GM10
1,014:	6 Volts	40 %	8 rpm	0.065 Amp	1.10 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161014GM10
1,621:	6 Volts	40 %	5 rpm	0.065 Amp	1.76 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161621GM10
1,996:	6 Volts	40 %	4 rpm	0.065 Amp	2.16 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161996GM10
3,027:	6 Volts	40 %	3 rpm	0.065 Amp	3.28 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A163027GM10

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N			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.

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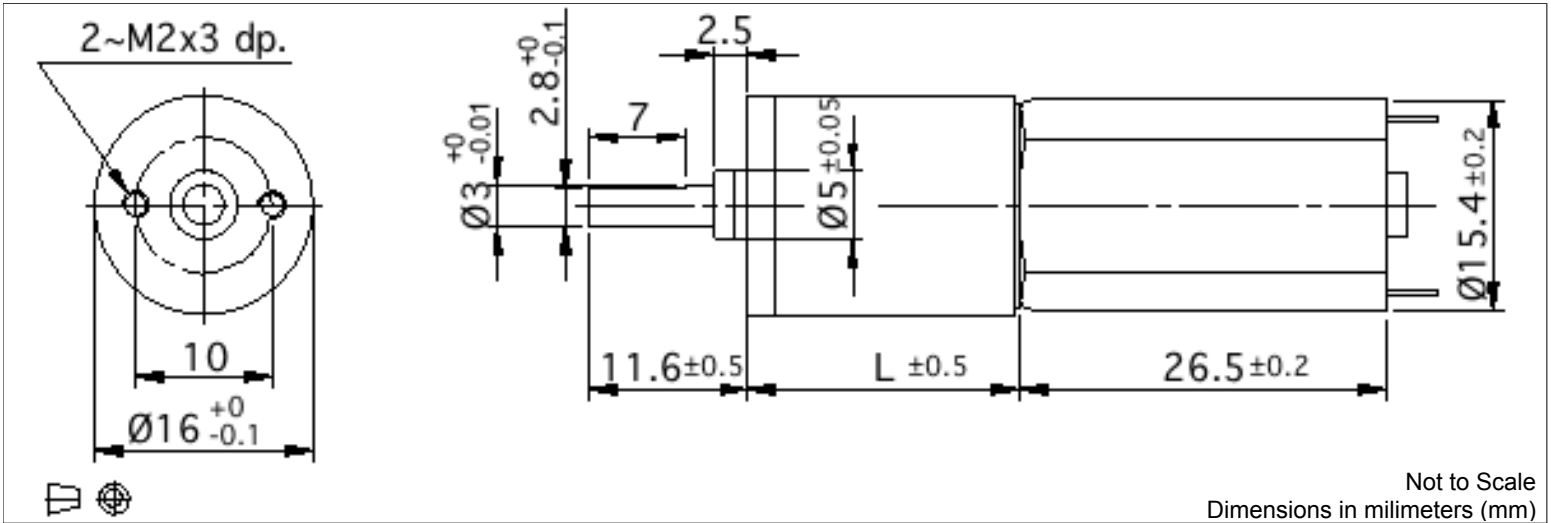
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS20

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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
4:1	9 Volts	80 %	2,000 rpm	0.050 Amp	0.01 Nm	0.002 Nm	15.1 mm	37.0 grams	Same	A160004GM20
16:1	9 Volts	70 %	500 rpm	0.050 Amp	0.03 Nm	0.007 Nm	18.7 mm	18.0 grams	Same	A160014GM20
19:1	9 Volts	70 %	421 rpm	0.050 Amp	0.04 Nm	0.009 Nm	18.7 mm	41.0 grams	Same	A160019GM20
29:1	9 Volts	60 %	276 rpm	0.050 Amp	0.05 Nm	0.014 Nm	22.4 mm	45.0 grams	Same	A160029GM20
62:1	9 Volts	60 %	129 rpm	0.050 Amp	0.11 Nm	0.025 Nm	22.4 mm	45.0 grams	Same	A160062GM20
72:1	9 Volts	60 %	111 rpm	0.050 Amp	0.13 Nm	0.029 Nm	22.4 mm	45.0 grams	Same	A160072GM20
84:1	9 Volts	60 %	95 rpm	0.050 Amp	0.15 Nm	0.034 Nm	22.4 mm	45.0 grams	Same	A160084GM20
104:1	9 Volts	60 %	77 rpm	0.050 Amp	0.19 Nm	0.042 Nm	22.4 mm	45.0 grams	Same	A160104GM20
128:1	9 Volts	60 %	62 rpm	0.050 Amp	0.23 Nm	0.052 Nm	22.4 mm	45.0 grams	Same	A160128GM20
157:1	9 Volts	60 %	51 rpm	0.050 Amp	0.29 Nm	0.065 Nm	22.4 mm	45.0 grams	Same	A160157GM20
231:1	9 Volts	50 %	35 rpm	0.050 Amp	0.35 Nm	0.078 Nm	26.0 mm	49.0 grams	Same	A160231GM20
316:1	9 Volts	50 %	25 rpm	0.050 Amp	0.48 Nm	0.108 Nm	26.0 mm	49.0 grams	Same	A160316GM20
370:1	9 Volts	50 %	22 rpm	0.050 Amp	0.56 Nm	0.123 Nm	26.0 mm	49.0 grams	Same	A160370GM20

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.

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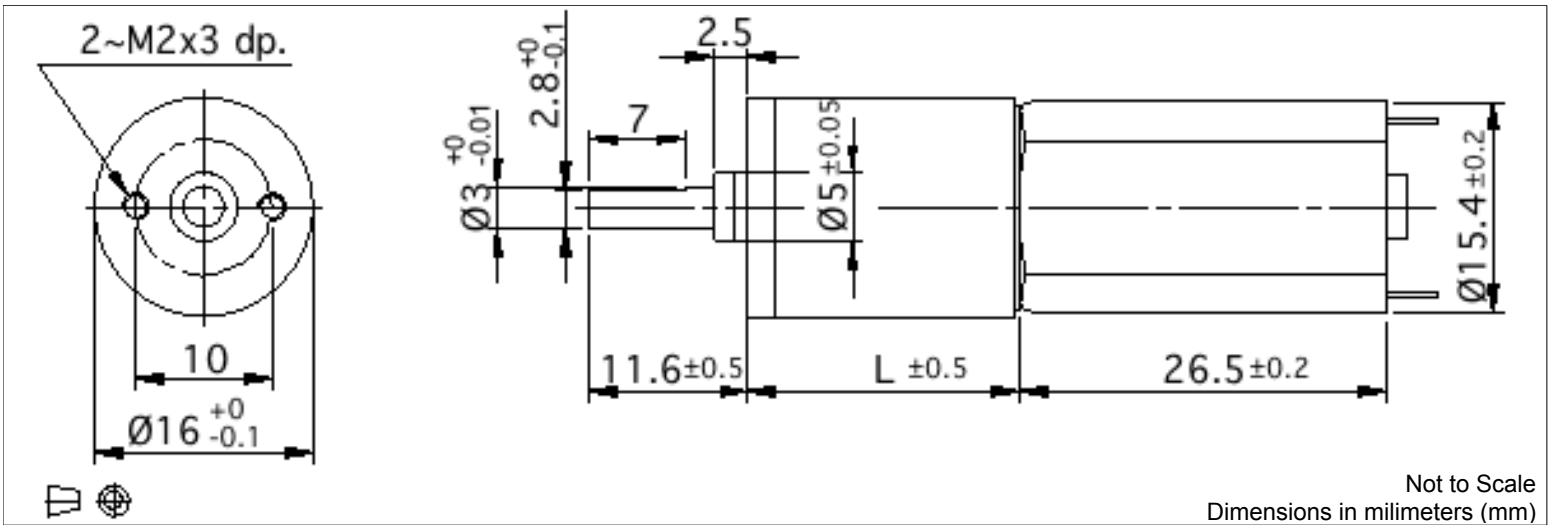
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS20

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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
455:1	9 Volts	50 %	18 rpm	0.050 Amp	0.69 Nm	0.152 Nm	26.0 mm	49.0 grams	Same	A160455GM20
561:1	9 Volts	50 %	14 rpm	0.050 Amp	0.85 Nm	0.186 Nm	26.0 mm	49.0 grams	Same	A160561GM20
690:1	9 Volts	50 %	12 rpm	0.050 Amp	1.04 Nm	0.235 Nm	26.0 mm	49.0 grams	Same	A160690GM20
1,014:	9 Volts	40 %	8 rpm	0.050 Amp	1.23 Nm	0.275 Nm	29.6 mm	53.0 grams	Same	A161014GM20
1,621:	9 Volts	40 %	5 rpm	0.050 Amp	1.96 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161621GM20
1,996:	9 Volts	40 %	4 rpm	0.050 Amp	2.42 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161996GM20
3,027:	9 Volts	40 %	3 rpm	0.050 Amp	3.66 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A163027GM20

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.		Magnetic Encoders. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.			

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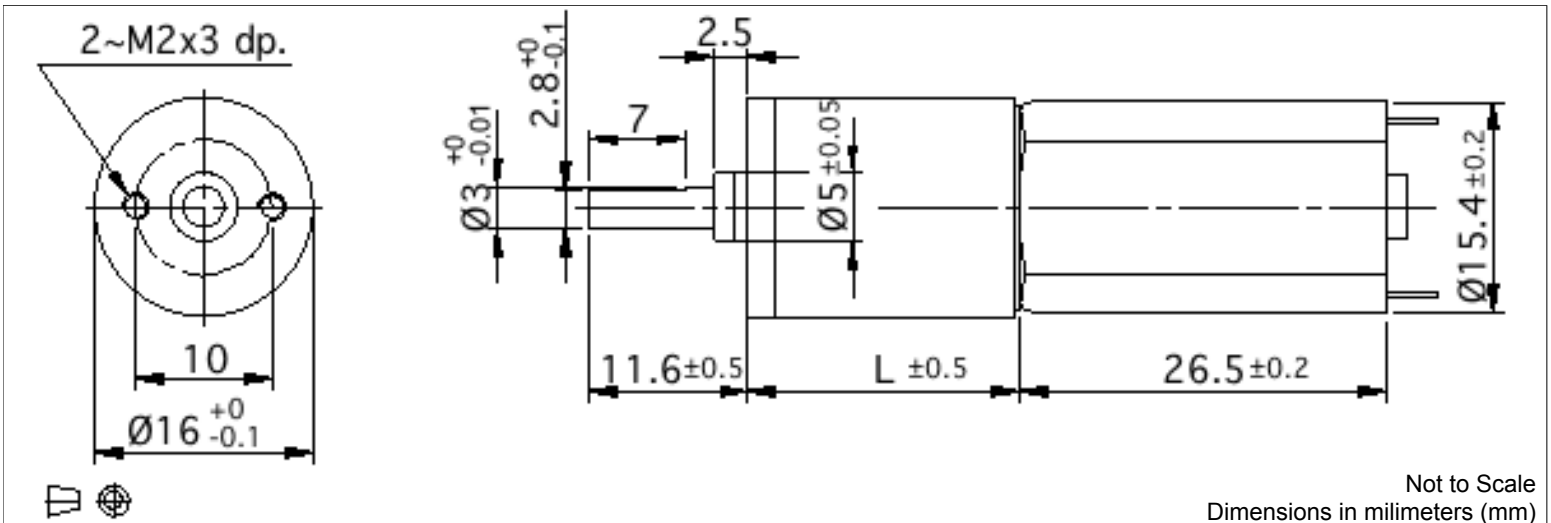
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS30

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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
4:1	12 Volts	80 %	2,000 rpm	0.050 Amp	0.01 Nm	0.002 Nm	15.1 mm	37.0 grams	Same	A160004GM30
16:1	12 Volts	70 %	500 rpm	0.050 Amp	0.02 Nm	0.006 Nm	18.7 mm	18.0 grams	Same	A160014GM30
19:1	12 Volts	70 %	421 rpm	0.050 Amp	0.02 Nm	0.008 Nm	18.7 mm	41.0 grams	Same	A160019GM30
29:1	12 Volts	60 %	276 rpm	0.050 Amp	0.03 Nm	0.012 Nm	22.4 mm	45.0 grams	Same	A160029GM30
62:1	12 Volts	60 %	129 rpm	0.050 Amp	0.06 Nm	0.022 Nm	22.4 mm	45.0 grams	Same	A160062GM30
72:1	12 Volts	60 %	111 rpm	0.050 Amp	0.07 Nm	0.025 Nm	22.4 mm	45.0 grams	Same	A160072GM30
84:1	12 Volts	60 %	95 rpm	0.050 Amp	0.09 Nm	0.029 Nm	22.4 mm	45.0 grams	Same	A160084GM30
104:1	12 Volts	60 %	77 rpm	0.050 Amp	0.11 Nm	0.037 Nm	22.4 mm	45.0 grams	Same	A160104GM30
128:1	12 Volts	60 %	63 rpm	0.050 Amp	0.13 Nm	0.045 Nm	22.4 mm	45.0 grams	Same	A160128GM30
157:1	12 Volts	60 %	51 rpm	0.050 Amp	0.16 Nm	0.054 Nm	22.4 mm	45.0 grams	Same	A160157GM30
231:1	12 Volts	50 %	35 rpm	0.050 Amp	0.20 Nm	0.069 Nm	26.0 mm	49.0 grams	Same	A160231GM30
316:1	12 Volts	50 %	25 rpm	0.050 Amp	0.27 Nm	0.093 Nm	26.0 mm	49.0 grams	Same	A160316GM30
370:1	12 Volts	50 %	22 rpm	0.050 Amp	0.31 Nm	0.108 Nm	26.0 mm	49.0 grams	Same	A160370GM30

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.

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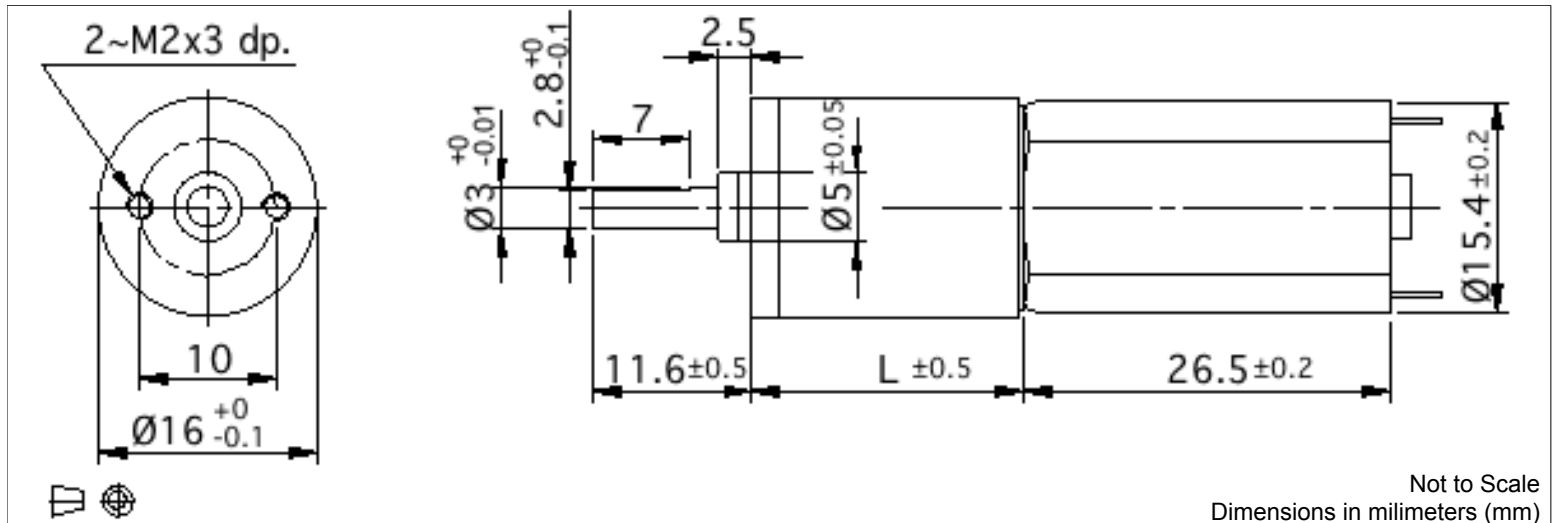
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS30

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
455:1	12 Volts	50 %	18 rpm	0.050 Amp	0.38 Nm	0.132 Nm	26.0 mm	49.0 grams	Same	A160455GM30
561:1	12 Volts	50 %	14 rpm	0.050 Amp	0.47 Nm	0.167 Nm	26.0 mm	49.0 grams	Same	A160561GM30
690:1	12 Volts	50 %	12 rpm	0.050 Amp	0.58 Nm	0.206 Nm	26.0 mm	49.0 grams	Same	A160690GM30
1,014:	12 Volts	40 %	8 rpm	0.050 Amp	0.69 Nm	0.235 Nm	29.6 mm	53.0 grams	Same	A161014GM30
1,621:	12 Volts	40 %	5 rpm	0.050 Amp	1.10 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161621GM30
1,996:	12 Volts	40 %	4 rpm	0.050 Amp	1.35 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161996GM30
3,027:	12 Volts	40 %	3 rpm	0.050 Amp	2.05 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A163027GM30

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.		Magnetic Encoders. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.			

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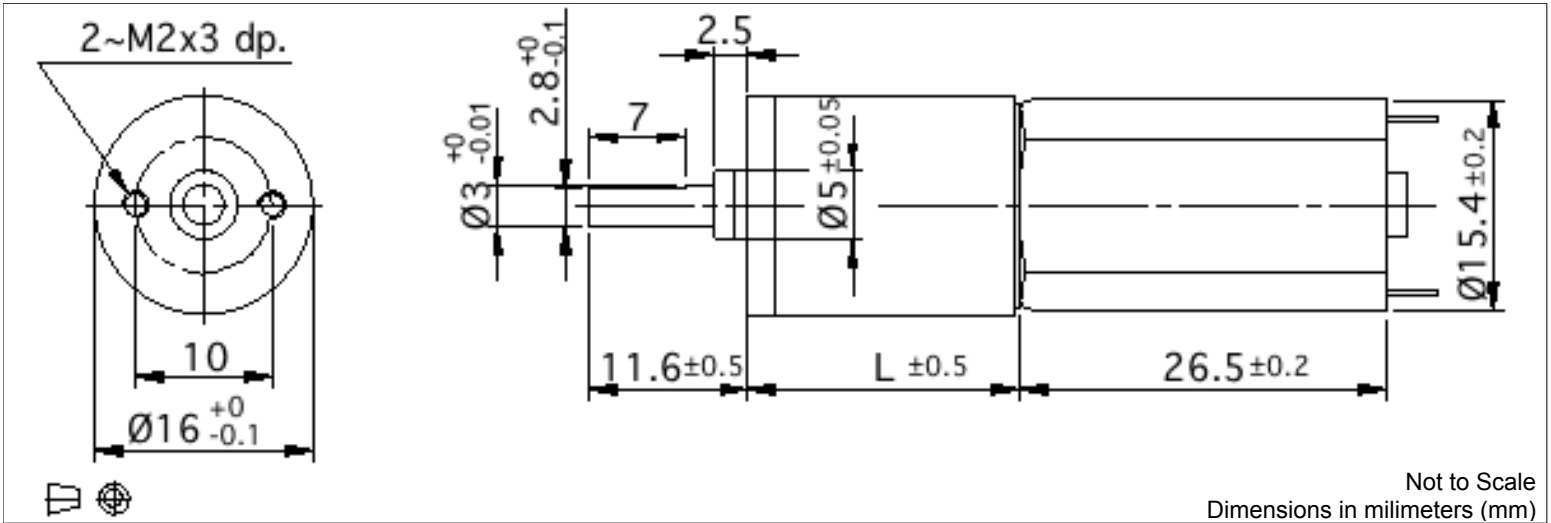
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS40

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
4:1	24 Volts	80 %	3,375 rpm	0.050 Amp	0.01 Nm	0.003 Nm	15.1 mm	37.0 grams	Same	A160004GM40
16:1	24 Volts	70 %	844 rpm	0.050 Amp	0.04 Nm	0.008 Nm	18.7 mm	18.0 grams	Same	A160014GM40
19:1	24 Volts	70 %	711 rpm	0.050 Amp	0.04 Nm	0.012 Nm	18.7 mm	41.0 grams	Same	A160019GM40
29:1	24 Volts	60 %	466 rpm	0.050 Amp	0.06 Nm	0.018 Nm	22.4 mm	45.0 grams	Same	A160029GM40
62:1	24 Volts	60 %	218 rpm	0.050 Amp	0.12 Nm	0.032 Nm	22.4 mm	45.0 grams	Same	A160062GM40
72:1	24 Volts	60 %	188 rpm	0.050 Amp	0.14 Nm	0.037 Nm	22.4 mm	45.0 grams	Same	A160072GM40
84:1	24 Volts	60 %	161 rpm	0.050 Amp	0.16 Nm	0.044 Nm	22.4 mm	45.0 grams	Same	A160084GM40
104:1	24 Volts	60 %	130 rpm	0.050 Amp	0.20 Nm	0.055 Nm	22.4 mm	45.0 grams	Same	A160104GM40
128:1	24 Volts	60 %	105 rpm	0.050 Amp	0.25 Nm	0.068 Nm	22.4 mm	45.0 grams	Same	A160128GM40
157:1	24 Volts	60 %	86 rpm	0.050 Amp	0.30 Nm	0.083 Nm	22.4 mm	45.0 grams	Same	A160157GM40
231:1	24 Volts	50 %	58 rpm	0.050 Amp	0.37 Nm	0.098 Nm	26.0 mm	49.0 grams	Same	A160231GM40
316:1	24 Volts	50 %	43 rpm	0.050 Amp	0.50 Nm	0.137 Nm	26.0 mm	49.0 grams	Same	A160316GM40
370:1	24 Volts	50 %	36 rpm	0.050 Amp	0.59 Nm	0.157 Nm	26.0 mm	49.0 grams	Same	A160370GM40

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	Options	Bearing	Sleeve	

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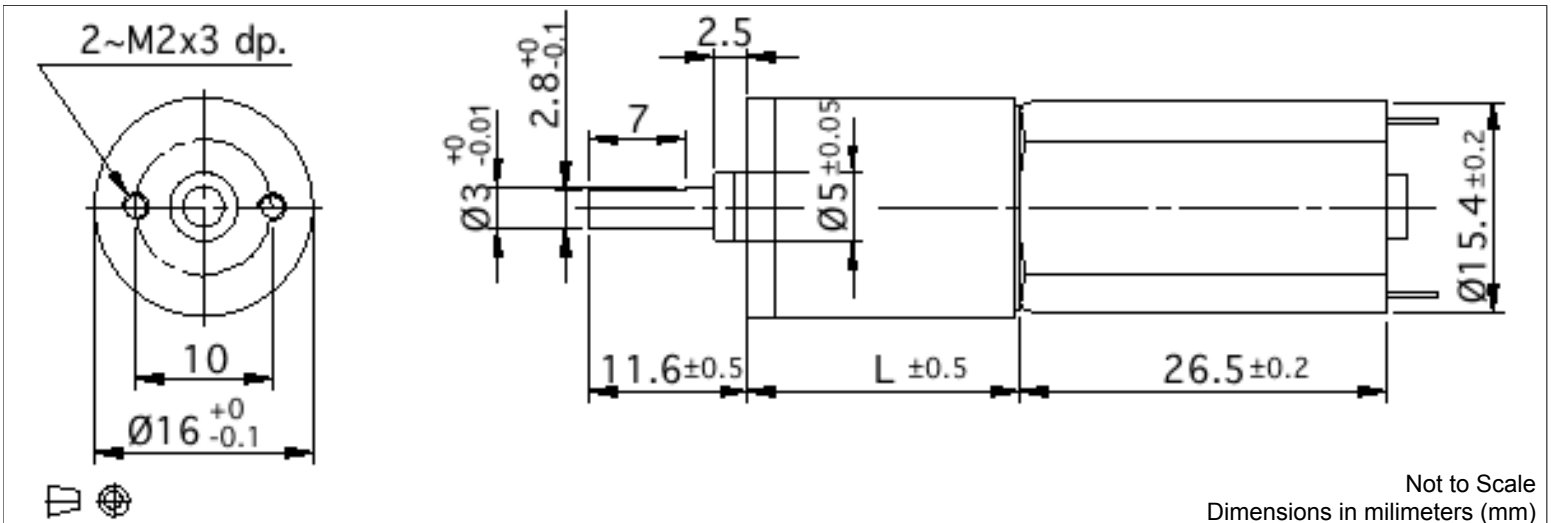
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Planetary Gearmotor - 16 mm Ø



A16 •••• AS40

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
455:1	24 Volts	50 %	30 rpm	0.050 Amp	0.73 Nm	0.196 Nm	26.0 mm	49.0 grams	Same	A160455GM40
561:1	24 Volts	50 %	24 rpm	0.050 Amp	0.90 Nm	0.245 Nm	26.0 mm	49.0 grams	Same	A160561GM40
690:1	24 Volts	50 %	20 rpm	0.050 Amp	1.10 Nm	0.294 Nm	26.0 mm	49.0 grams	Same	A160690GM40
1,014:	24 Volts	40 %	13 rpm	0.050 Amp	1.29 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161014GM40
1,621:	24 Volts	40 %	8 rpm	0.050 Amp	2.07 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161621GM40
1,996:	24 Volts	40 %	7 rpm	0.050 Amp	2.55 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A161996GM40
3,027:	24 Volts	40 %	4 rpm	0.050 Amp	3.86 Nm	0.294 Nm	29.6 mm	53.0 grams	Same	A163027GM40

Radial Load Rating	≤ 4.9 N	Radial Play	≤ 0.05 mm	Max Temperature Oper.	60°C
Radial Load Distance	10 mm	Thrust Play	≤ 0.20 mm	Min Temperature Oper.	-10°C
Axial Load	≤ 4.9 N	Backlash	≤ 3.0 °	Relative Humidity Oper.	20% to 85%
Press Fit Force - Max	≤ 14.7 N	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.		Magnetic Encoders. Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting.			

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