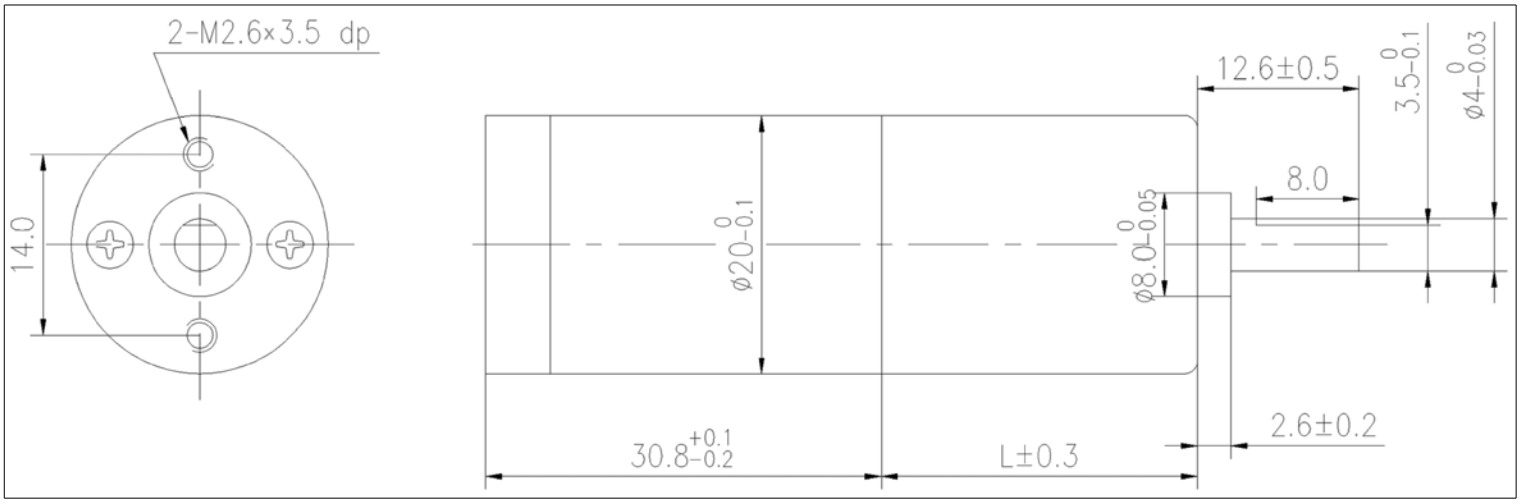
Coreless 20 mm Ø Gearmotor - 3V

Perfect for Battery Applications - Low Friction

Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
10.0:1	3.0	73 %	841 rpm	0.120 Amp	0.11 Nm	0.012 Nm	16.5 mm	63.0 grams	Opposite	S2000010GC0
12.5:1	3.0	73 %	670 rpm	0.120 Amp	0.13 Nm	0.015 Nm	16.5 mm	63.0 grams	Opposite	S200013GC00
18.2:1	3.0	65 %	460 rpm	0.120 Amp	0.17 Nm	0.020 Nm	20.0 mm	66.5 grams	Same	S200018GC00
28.8:1	3.0	65 %	291 rpm	0.120 Amp	0.28 Nm	0.032 Nm	20.0 mm	66.5 grams	Same	S200029GC00
42.0:1	3.0	55 %	200 rpm	0.120 Amp	0.34 Nm	0.039 Nm	20.0 mm	66.5 grams	Same	S200042GC00
52.0:1	3.0	55 %	161 rpm	0.120 Amp	0.42 Nm	0.048 Nm	20.0 mm	66.5 grams	Same	S200052GC00
67.2:1	3.0	55 %	125 rpm	0.120 Amp	0.54 Nm	0.062 Nm	20.0 mm	66.5 grams	Same	S200067GC00
80.2:1	3.0	50 %	105 rpm	0.120 Amp	0.59 Nm	0.068 Nm	21.8 mm	68.0 grams	Opposite	S200080GC00
99.3:1	3.0	50 %	84 rpm	0.120 Amp	0.73 Nm	0.084 Nm	21.8 mm	68.0 grams	Opposite	S200099GC00
119.5:1	3.0	50 %	70 rpm	0.120 Amp	0.88 Nm	0.101 Nm	21.8 mm	68.0 grams	Opposite	S200120GC00
150.2:1	3.0	50 %	56 rpm	0.120 Amp	1.11 Nm	0.127 Nm	21.8 mm	68.0 grams	Opposite	S200150GC00
179.2:1	3.0	45 %	47 rpm	0.120 Amp	1.19 Nm	0.136 Nm	25.3 mm	71.0 grams	Same	S200179GC00
225.2:1	3.0	45 %	37 rpm	0.120 Amp	1.49 Nm	0.171 Nm	25.3 mm	71.0 grams	Same	S200225GC00

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

CAUTION:
Stall Torque is a theoretical calculation- NOT a rating or 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: Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting. Low Cost Iron Core Motors/Magnetic Encoder alternatives.

* Rotational Sense of Gearbox Output Shaft to Motor Shaft

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Commutation Type:
Precious Metal

Manufactured under a Certified ISO 9001:2008 Quality System

RoHS Compliant

A - August 2011

Coreless 20 mm Ø Gearmotor - 3V

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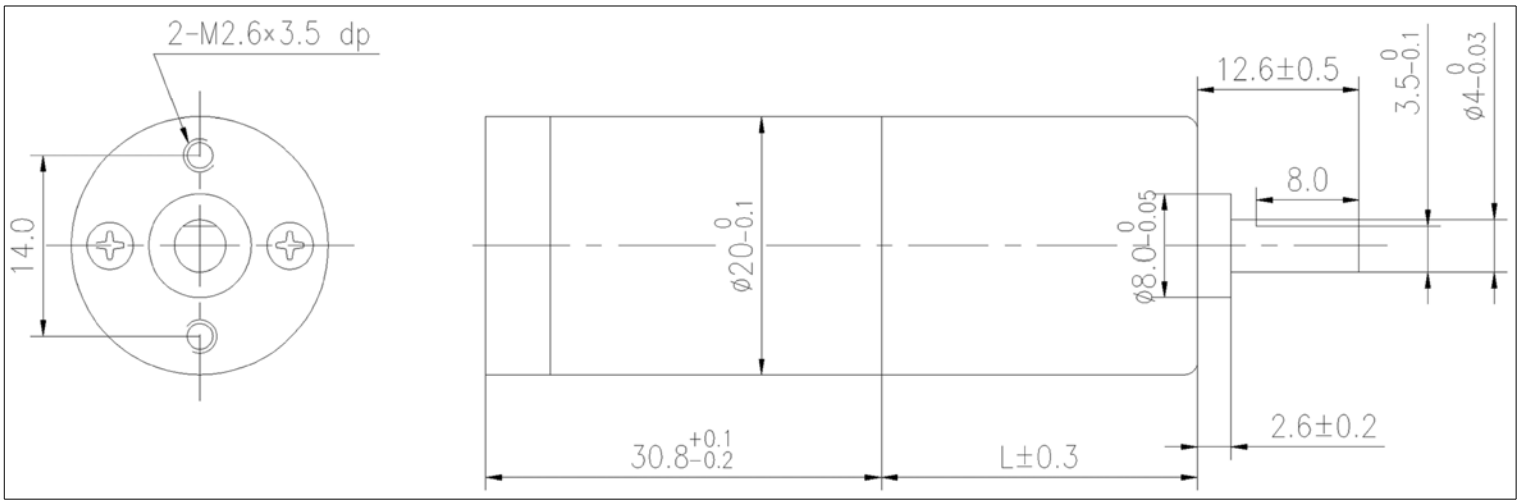
Perfect for Battery Applications - Low Friction



Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
274.9:1	3.0	45 %	31 rpm	0.120 Amp	1.82 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200275GC00
350.4:1	3.0	45 %	24 rpm	0.120 Amp	2.32 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200350GC00
430.4:1	3.0	40 %	19 rpm	0.120 Amp	2.53 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200430GC00
548.7:1	3.0	40 %	15 rpm	0.120 Amp	3.23 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200549GC00
689.3:1	3.0	40 %	12 rpm	0.120 Amp	4.06 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200689GC00
794.5:1	3.0	40 %	11 rpm	0.120 Amp	4.68 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200794GC00
866.1:1	3.0	40 %	10 rpm	0.120 Amp	5.10 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200866GC00

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

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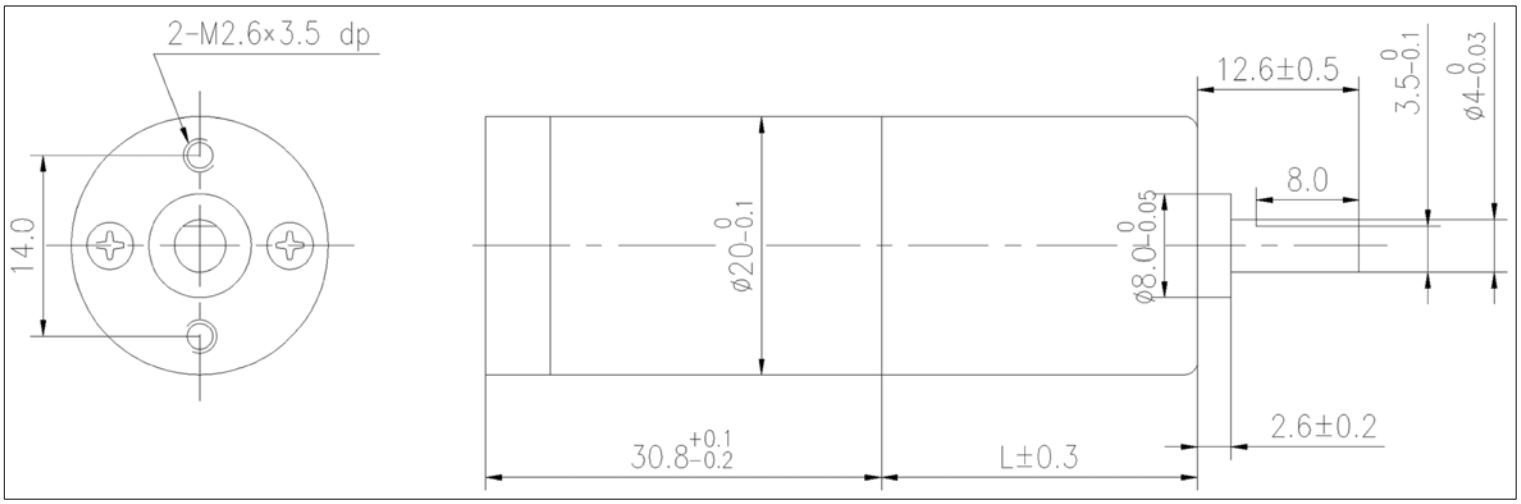

Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
10.0:1	6.0	73 %	812 rpm	0.038 Amp	0.08 Nm	0.016 Nm	16.5 mm	63.0 grams	Opposite	S2000010GC1
12.5:1	6.0	73 %	647 rpm	0.038 Amp	0.09 Nm	0.020 Nm	16.5 mm	63.0 grams	Opposite	S200013GC10
18.2:1	6.0	65 %	444 rpm	0.038 Amp	0.12 Nm	0.026 Nm	20.0 mm	66.5 grams	Same	S200018GC10
28.8:1	6.0	65 %	281 rpm	0.038 Amp	0.19 Nm	0.041 Nm	20.0 mm	66.5 grams	Same	S200029GC10
42.0:1	6.0	55 %	193 rpm	0.038 Amp	0.24 Nm	0.050 Nm	20.0 mm	66.5 grams	Same	S200042GC10
52.0:1	6.0	55 %	156 rpm	0.038 Amp	0.30 Nm	0.062 Nm	20.0 mm	66.5 grams	Same	S200052GC10
67.2:1	6.0	55 %	120 rpm	0.038 Amp	0.38 Nm	0.080 Nm	20.0 mm	66.5 grams	Same	S200067GC10
80.2:1	6.0	50 %	101 rpm	0.038 Amp	0.41 Nm	0.087 Nm	21.8 mm	68.0 grams	Opposite	S200080GC10
99.3:1	6.0	50 %	82 rpm	0.038 Amp	0.51 Nm	0.108 Nm	21.8 mm	68.0 grams	Opposite	S200099GC10
119.5:1	6.0	50 %	68 rpm	0.038 Amp	0.62 Nm	0.130 Nm	21.8 mm	68.0 grams	Opposite	S200120GC10
150.2:1	6.0	50 %	54 rpm	0.038 Amp	0.78 Nm	0.147 Nm	21.8 mm	68.0 grams	Opposite	S200150GC10
179.2:1	6.0	45 %	45 rpm	0.038 Amp	0.83 Nm	0.175 Nm	25.3 mm	71.0 grams	Same	S200179GC10
225.2:1	6.0	45 %	36 rpm	0.038 Amp	1.05 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200225GC10

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

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Coreless 20 mm Ø Gearmotor - 6V

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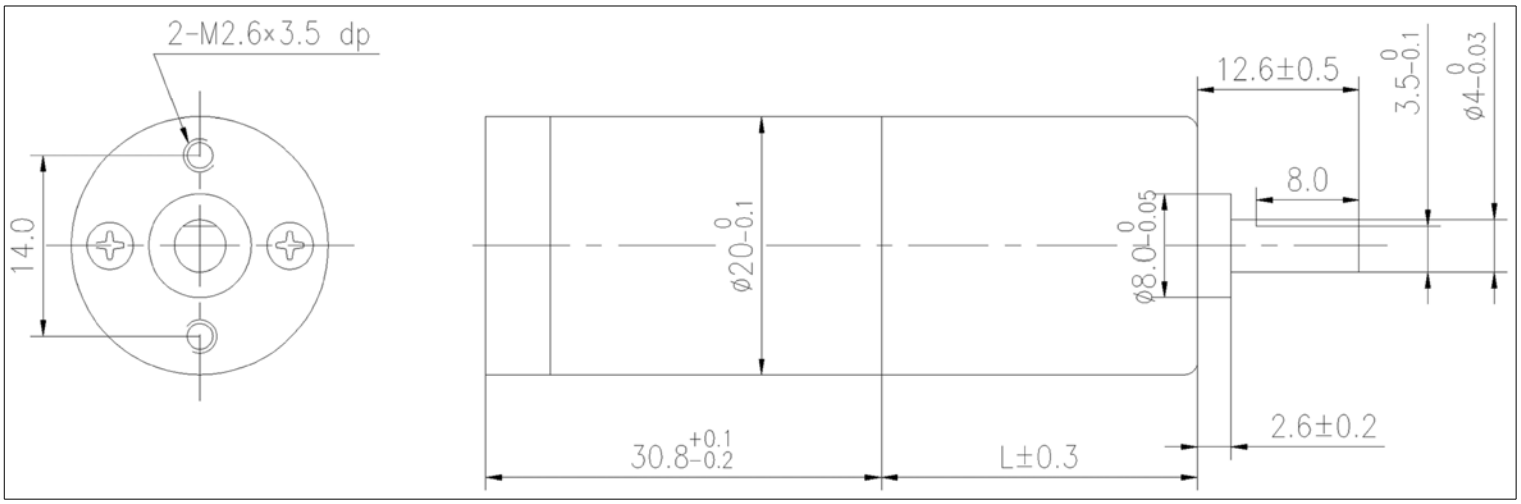

Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
274.9:1	6.0	45 %	29 rpm	0.038 Amp	1.28 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200275GC10
350.4:1	6.0	45 %	23 rpm	0.038 Amp	1.63 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200350GC10
430.4:1	6.0	40 %	19 rpm	0.038 Amp	1.78 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200430GC10
548.7:1	6.0	40 %	15 rpm	0.038 Amp	2.27 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200549GC10
689.3:1	6.0	40 %	12 rpm	0.038 Amp	2.85 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200689GC10
794.5:1	6.0	40 %	10 rpm	0.038 Amp	3.28 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200794GC10
866.1:1	6.0	40 %	9 rpm	0.038 Amp	3.58 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200866GC10

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

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A - August 2011

Coreless 20 mm Ø Gearmotor - 9V

Perfect for Battery Applications - Low Friction

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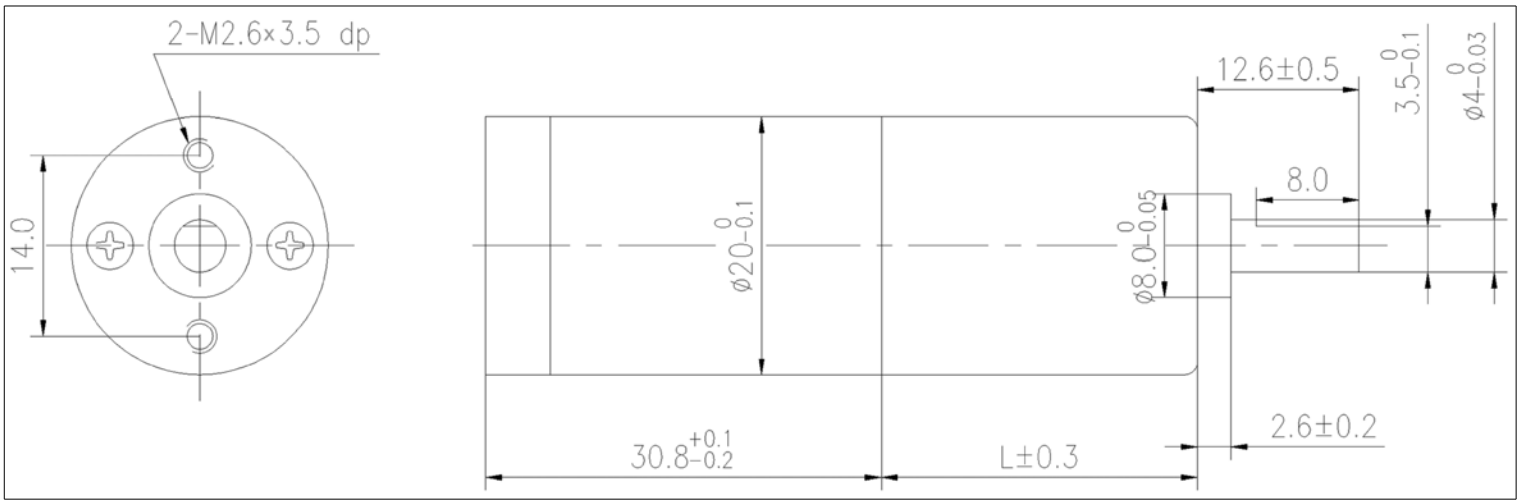

Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
10.0:1	9.0	73 %	825 rpm	0.039 Amp	0.08 Nm	0.014 Nm	16.5 mm	63.0 grams	Opposite	S2000010GC2
12.5:1	9.0	73 %	656 rpm	0.039 Amp	0.10 Nm	0.017 Nm	16.5 mm	63.0 grams	Opposite	S200013GC20
18.2:1	9.0	65 %	451 rpm	0.039 Amp	0.13 Nm	0.023 Nm	20.0 mm	66.5 grams	Same	S200018GC20
28.8:1	9.0	65 %	285 rpm	0.039 Amp	0.20 Nm	0.036 Nm	20.0 mm	66.5 grams	Same	S200029GC20
42.0:1	9.0	55 %	196 rpm	0.039 Amp	0.25 Nm	0.044 Nm	20.0 mm	66.5 grams	Same	S200042GC20
52.0:1	9.0	55 %	158 rpm	0.039 Amp	0.31 Nm	0.055 Nm	20.0 mm	66.5 grams	Same	S200052GC20
67.2:1	9.0	55 %	122 rpm	0.039 Amp	0.40 Nm	0.070 Nm	20.0 mm	66.5 grams	Same	S200067GC20
80.2:1	9.0	50 %	102 rpm	0.039 Amp	0.43 Nm	0.076 Nm	21.8 mm	68.0 grams	Opposite	S200080GC20
99.3:1	9.0	50 %	83 rpm	0.039 Amp	0.54 Nm	0.095 Nm	21.8 mm	68.0 grams	Opposite	S200099GC20
119.5:1	9.0	50 %	69 rpm	0.039 Amp	0.65 Nm	0.114 Nm	21.8 mm	68.0 grams	Opposite	S200120GC20
150.2:1	9.0	50 %	55 rpm	0.039 Amp	0.81 Nm	0.143 Nm	21.8 mm	68.0 grams	Opposite	S200150GC20
179.2:1	9.0	45 %	46 rpm	0.039 Amp	0.87 Nm	0.154 Nm	25.3 mm	71.0 grams	Same	S200179GC20
225.2:1	9.0	45 %	37 rpm	0.039 Amp	1.10 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200225GC20

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

CAUTION:
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Options: Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting. Low Cost Iron Core Motors/Magnetic Encoder alternatives.

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Commutation Type:
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RoHS Compliant

Coreless 20 mm Ø Gearmotor - 9V

Perfect for Battery Applications - Low Friction

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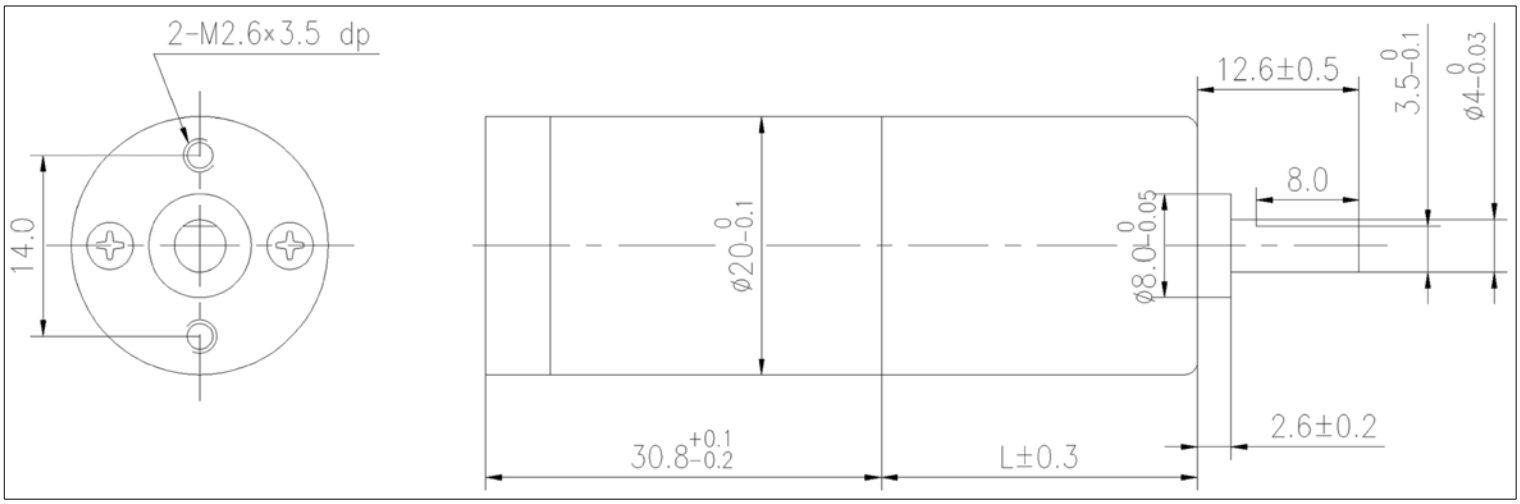

Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
274.9:1	9.0	45 %	30 rpm	0.039 Amp	1.34 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200275GC20
350.4:1	9.0	45 %	23 rpm	0.039 Amp	1.71 Nm	0.177 Nm	25.3 mm	71.0 grams	Same	S200350GC20
430.4:1	9.0	40 %	19 rpm	0.039 Amp	1.86 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200430GC20
548.7:1	9.0	40 %	15 rpm	0.039 Amp	2.38 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200549GC20
689.3:1	9.0	40 %	12 rpm	0.039 Amp	2.99 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200689GC20
794.5:1	9.0	40 %	10 rpm	0.039 Amp	3.44 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200794GC20
866.1:1	9.0	40 %	9 rpm	0.039 Amp	3.75 Nm	0.177 Nm	25.3 mm	71.0 grams	Opposite	S200866GC20

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

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Coreless 20 mm Ø Gearmotor - 9V

3.2 Watts - Battery Applications - Low Friction

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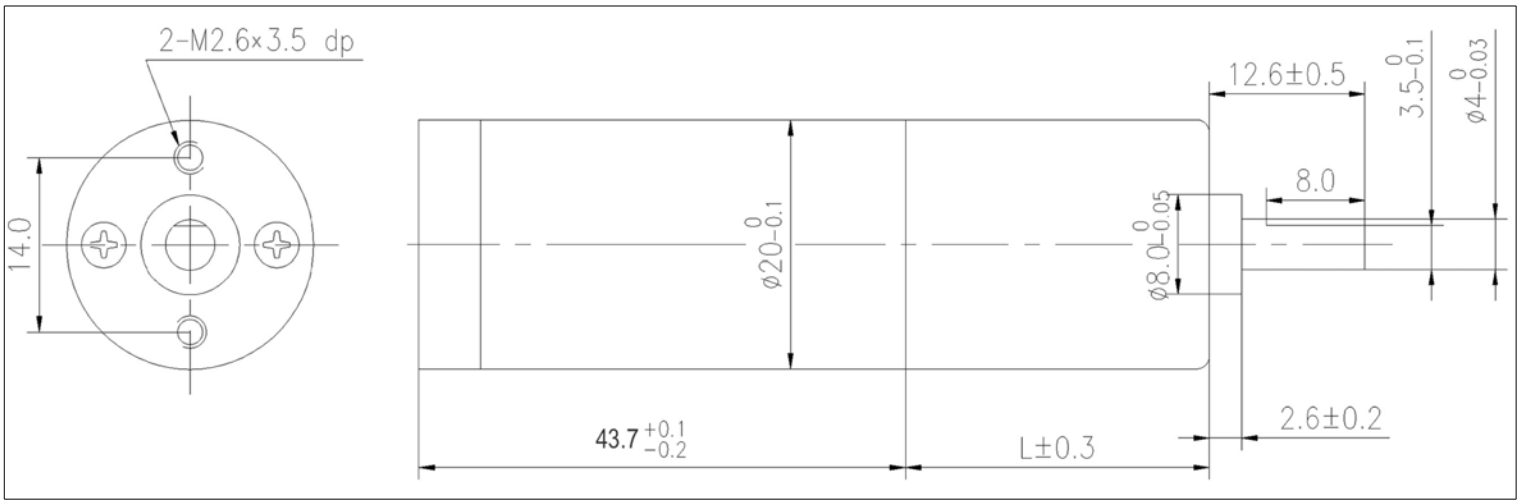

Not to Scale - Dimensions in millimeters (mm)

Ratio	Voltage Volts	Gearbox Efficiency %	No Load Speed rpm	Gearmotor No Load Current A	Stall Torque Nm	Continuous Torque Nm	Length L mm	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
10.0:1	9.0	73 %	800 rpm	0.056 Amp	0.31 Nm	0.026 Nm	16.5 mm	85.0 grams	Opposite	S2000010HC0
12.5:1	9.0	73 %	637 rpm	0.056 Amp	0.39 Nm	0.033 Nm	16.5 mm	85.0 grams	Opposite	S200013HC00
18.2:1	9.0	65 %	437 rpm	0.056 Amp	0.51 Nm	0.043 Nm	20.0 mm	88.5 grams	Same	S200018HC00
28.8:1	9.0	65 %	277 rpm	0.056 Amp	0.80 Nm	0.059 Nm	20.0 mm	88.5 grams	Same	S200029HC00
42.0:1	9.0	55 %	190 rpm	0.056 Amp	0.99 Nm	0.083 Nm	20.0 mm	88.5 grams	Same	S200042HC00
52.0:1	9.0	55 %	153 rpm	0.056 Amp	1.23 Nm	0.098 Nm	20.0 mm	88.5 grams	Same	S200052HC00
67.2:1	9.0	55 %	119 rpm	0.056 Amp	1.59 Nm	0.098 Nm	20.0 mm	88.5 grams	Same	S200067HC00
80.2:1	9.0	50 %	99 rpm	0.056 Amp	1.72 Nm	0.118 Nm	21.8 mm	90.0 grams	Opposite	S200080HC00
99.3:1	9.0	50 %	80 rpm	0.056 Amp	2.13 Nm	0.118 Nm	21.8 mm	90.0 grams	Opposite	S200099HC00
119.5:1	9.0	50 %	67 rpm	0.056 Amp	2.56 Nm	0.147 Nm	21.8 mm	90.0 grams	Opposite	S200120HC00
150.2:1	9.0	50 %	53 rpm	0.056 Amp	3.22 Nm	0.147 Nm	21.8 mm	90.0 grams	Opposite	S200150HC00
179.2:1	9.0	45 %	44 rpm	0.056 Amp	3.46 Nm	0.177 Nm	25.3 mm	93.0 grams	Same	S200179HC00
225.2:1	9.0	45 %	35 rpm	0.056 Amp	4.35 Nm	0.177 Nm	25.3 mm	93.0 grams	Same	S200225HC00

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
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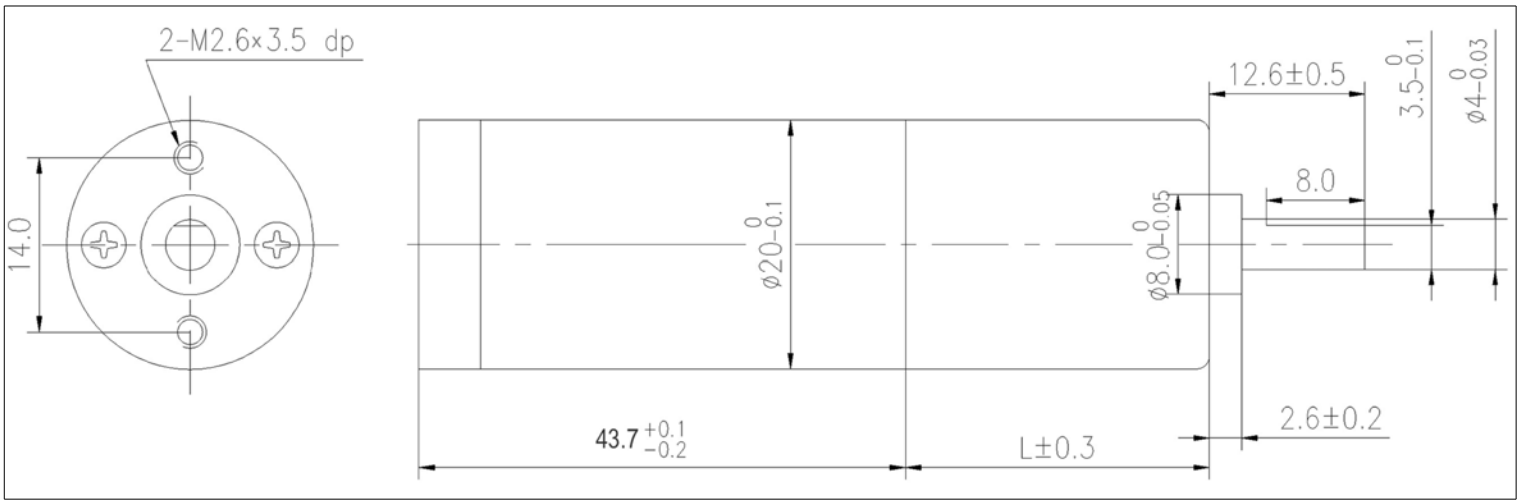
Coreless 20 mm Ø Gearmotor - 9V

3.2 Watts - Battery Applications - Low Friction

Global Motion Products



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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	Mass Gearmotor grams	Direction of Rotation*	Order Part Number
274.9:1	9.0	45 %	29 rpm	0.056 Amp	5.31 Nm	0.177 Nm	25.3 mm	93.0 grams	Same	S200275HC00
350.4:1	9.0	45 %	23 rpm	0.056 Amp	6.76 Nm	0.177 Nm	25.3 mm	93.0 grams	Same	S200350HC00
430.4:1	9.0	40 %	19 rpm	0.056 Amp	7.38 Nm	0.177 Nm	25.3 mm	93.0 grams	Opposite	S200430HC00
548.7:1	9.0	40 %	15 rpm	0.056 Amp	9.41 Nm	0.177 Nm	25.3 mm	93.0 grams	Opposite	S200549HC00
689.3:1	9.0	40 %	12 rpm	0.056 Amp	11.82 Nm	0.177 Nm	25.3 mm	93.0 grams	Opposite	S200689HC00
794.5:1	9.0	40 %	10 rpm	0.056 Amp	13.63 Nm	0.177 Nm	25.3 mm	93.0 grams	Opposite	S200794HC00
866.1:1	9.0	40 %	9 rpm	0.056 Amp	14.86 Nm	0.177 Nm	25.3 mm	93.0 grams	Opposite	S200866HC00

Radial Load Rating	≤ 3.9 N	Radial Play	≤ 0.05 mm	Max Temperature Operating	60°C
Radial Load Distance	10 mm	Axial Play	≤ 0.30 mm	Min Temperature Operating	-10°C
Axial Load	≤ 2.0 N	Backlash	≤ 3.0 °	Relative Humidity Operating	20% to 85%
Press Fit Force - Max	≤ 19.6 N	Bearing	Sleeve		

CAUTION:
Stall Torque is a theoretical calculation- NOT a rating or 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: Leads. Connectors. Pinion/Gear Mounting. Lubricants. Motor Windings. Gear material. Shaft modifications and component mounting. Low Cost Iron Core Motors/Magnetic Encoder alternatives.

* Rotational Sense of Gearbox Output Shaft to Motor Shaft

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Manufactured under a Certified ISO 9001:2008 Quality System

RoHS Compliant

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