

CODING SYSTEM AND UNIT CONVERSION TABLE

Ordering Information

Coding system

<table border="1" style="display: inline-table;"> <tr><td>S</td><td>C</td><td>L</td><td>1</td><td>6</td><td>-</td><td>3</td><td>0</td><td>1</td><td>0</td><td>E</td><td>P</td><td>G</td><td>1</td><td>0</td><td>5</td><td>-</td><td>2</td><td>A</td></tr> </table>	S	C	L	1	6	-	3	0	1	0	E	P	G	1	0	5	-	2	A	Combination of Motor, Gearhead, Encoder & Tacho
S	C	L	1	6	-	3	0	1	0	E	P	G	1	0	5	-	2	A		
	[S] Standard, [M] Minor changes																			
	[CL] Coreless motor, [BL] Brushless motor																			
	Nominal diameter: ex. 7mm→07 / 22mm→22																			
	Nominal length																			
	Coil number: ex. 45Ω→45 / 0.8Ω→R8 / 150Ω→H5																			
	[T] Tacho, [E] Encoder																			
	[SG] Spur gear, [PG] Planetary gear																			
	Reduction ratio: ex. 105:1→105 / 4.7:1→ <table border="1" style="display: inline-table;"><tr><td>4</td><td>.</td><td>7</td></tr></table>	4	.	7																
4	.	7																		
	Encoder channels: [1] 1CH, [2] 2CH, [3] 3CH																			
	Encoder code for resolution and signal output																			
<table border="1" style="display: inline-table;"> <tr><td>S</td><td>S</td><td>G</td><td>1</td><td>2</td><td>-</td><td>4</td><td>7</td></tr> </table>	S	S	G	1	2	-	4	7	Gearhead											
S	S	G	1	2	-	4	7													
	[S] Standard, [M] Minor changes																			
	[SG] Spur gear, [PG] Planetary gear																			
	Nominal diameter: ex. 7mm→07 / 22mm→22																			
	Reduction ratio: ex. 47:1→47 / 4.7:1→ <table border="1" style="display: inline-table;"><tr><td>4</td><td>.</td><td>7</td></tr></table>	4	.	7																
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<table border="1" style="display: inline-table;"> <tr><td>S</td><td>S</td><td>D</td><td>0</td><td>7</td></tr> </table>	S	S	D	0	7	Brushless Motor Drive														
S	S	D	0	7																
	[S] Standard, [M] Minor changes																			
	[SD] Sensorless drive [HD] Hall sensors drive																			
	Motor diameter: ex. 7mm→07 / 22mm→22																			

Unit conversion table

Length	1 in	↔	25.4 mm	1 mm	↔	0.0393 in
	1 ft	↔	0.3048 m	1 m	↔	3.281 ft
Mass	1 oz	↔	0.0283 kg	1 kg	↔	35.3 oz
	1 lb	↔	0.454 kg	1 kg	↔	2.205 lb
Force	1 oz	↔	0.278 N	1 N	↔	3.597 oz
	1 lb	↔	4.45 N	1 N	↔	0.225 lb
Temperature	T [°F]	↔	$9/5 \times T[°C] + 32$	T [°C]	↔	$5/9 \times (T[°F] - 32)$
	0 K	↔	-273.15 °C	0 °C	↔	273.15 K
Torque	1 oz-in	↔	7.06 mNm	1 mNm	↔	0.1416 oz-in
	1 lb-in	↔	0.113 Nm	1 Nm	↔	8.849 lb-in
	1 lb-ft	↔	1.356 Nm	1 Nm	↔	0.7376 lb-ft
	1 kgf-m	↔	9.807 Nm	1 Nm	↔	0.102 kgf-m
	1 gf-cm	↔	0.098 mNm	1 mNm	↔	10.204 gf-cm
Inertia	1 moiss	↔	$7.06 \times 10^{-6} \text{ kgm}^2$	1 kgm ²	↔	141643 moiss
	1 oz-in ²	↔	$1.83 \times 10^{-5} \text{ kgm}^2$	1 kgm ²	↔	$5.46 \times 10^4 \text{ oz-in}^2$
	1 oz-in s ²	↔	$7.06 \times 10^{-3} \text{ kgm}^2$	1 kgm ²	↔	141.6 oz-in s ²
	1 lb-in ²	↔	$2.93 \times 10^{-4} \text{ kgm}^2$	1 kgm ²	↔	3418 lb-in
	1 lb-in s ²	↔	0.113 kgm^2	1 kgm ²	↔	8.85 lb-in s ²