



Model	STD	2BB	MG	Size( L x W x H ) mm/in	Weight g	4.8V			6V	
						Speed (sec/60°)	Torque		Speed (sec/60°)	Torque kg-cm
							kg-cm	oz-in		
S03N2 D HP		•		38.4x19.95 x37.8	29	0.126	5.6		0.104	6.6
S03N2 D F HP		•			29	0.098	4.4		0.084	5.6
S03N2 D XF HP		•			29	0.082	3.7		0.071	4.2
S03N2 + D HP		•			33	0.134	8.2		0.114	9
S03N2 + F D HP		•			33	0.11	7		0.098	8.1
S03N2 + XF D HP		•			33	0.089	6		0.078	7
Model	STD	2BB	MG	Size( L x W x H ) mm/in	Weight g	7.4			8.4	
						Speed (sec/60°)	Torque		Speed (sec/60°)	Torque kg-cm
							kg-cm	oz-in		
S03N2 D HP		•		38.4x19.95 x37.8	29	0.086	7.3		0.077	8.4
S03N2 D F HP		•			29	0.071	6.2		0.062	7
S03N2 D XF HP		•			29	0.061	4.9		0.055	5.6
S03N2 + D HP		•			33	0.102	10.5		0.095	11.4
S03N2 + F D HP		•			33	0.081	9.1		0.074	9.8
S03N2 + XF D HP		•			33	0.07	8		0.064	8.5
Model	STD	2BB	MG	Size( L x W x H ) mm/in	Weight g	4.8V			6V	
						Speed (sec/60°)	Torque		Speed (sec/60°)	Torque kg-cm
							kg-cm	oz-in		
S03N D				39.5x20.0x 35.6	41					

S03N D MG			●	1.56x0.79x 1.40	64	0.21	4.5	62	0.18	5
S03NF D					41					
S03NF D MG			●	1.56x0.79x 1.40	64	0.18	3.8	53	0.15	4.5
S03NXF D					41					
S03NXF D MG			●	1.56x0.79x 1.40	64	0.14	2.8	39	0.12	3.2
S03T D					39.5x20.0x 39.5	46				
S03T D MG			●	1.56x0.79x 1.56	73	0.3	8.1	112	0.25	9.2
S03TF D					46					
S03TF D MG				1.56x0.79x 1.56	73	0.25	7.2	100	0.21	8.4
S03TXF D					46					
S03TXF D MG			●	1.56x0.79x 1.56	73	0.2	6.5	90	0.17	7.5

STD = Oiliness Bearing 2BB= 2 Ball Bearings MG= Metal Gear with Ball Bearings D= Digital

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						Speed (sec/60°)	Torque		Speed (sec/60°)	Torque kg-cm
							kg-cm	oz-in		
S03N 2 HP		●		38.4x19.95 x37.8	29	0.127	5.5		0.111	6.4
S03N 2 F HP		●			29	0.1	4.2		0.09	5.5
S03N 2 XF HP		●			29	0.086	3.6		0.078	4.2
S03N 2+ HP		●			33	0.148	8		0.13	9
S03N 2 + F HP		●			33	0.131	7		0.123	8
S03N 2 + XF HP		●			33	0.099	6		0.086	6.8
S03N	●	●		39.5x20.0x 35.6	41	0.23	3.4	47	0.18	4
S03NF	●	●		1.56x0.79x 1.40	41	0.18	2.8	39	0.15	3.2
S03NXF	●	●			41	0.15	2.2	31	0.12	2.45
S03N 2BBMG			●	1.56x0.79x 1.40		0.23	3.4	47	0.18	4.2
S03NF 2BBMG			●			0.18	2.8	39	0.15	3.4
S03NXF2B BMG			●		64	0.15	2.5	35	0.12	3
S03T	●	●		39.5x20.0x 39.5	46	0.33	7.2	100	0.27	8
S03TF	●	●		1.56x0.79x 1.56	46	0.27	5.8	81	0.22	6.5

S03TXF	•	•		46	0.21	5	69	0.17	6.2
S03T-FET 2BBMG			•	73	0.33	7.2	100.13	0.28	8
S03T 2BBMG			•		0.33	7.2	100.13	0.28	8
S03TF 2BBMG			•		0.27	6	83	0.22	6.95
S03TXF 2BBMG			•		0.21	5.6	78	0.17	6.4

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