

Features (Product Availability)

MSR							
Stage	Gear ratio	050	070	090	120	155	205
1A	3~10	○	○	○	○	○	○
2B	15~100	⊗	○	○	○	○	○
2A	15~100	○	○	○	○	○	○
1M/2M	3~100	⊗	⊗	⊗	⊗	⊗	⊗

○ : Standard, △: Custom made, ⊗ : Contact sales person.

Specification

Division	Stage	Gear ratio	050	070	090	120	155	205
Nominal Output Torque (Nm)	1	3	20	57	148	272	484	897
		4	18	51	143	295	549	1,060
		5	19	54	160	332	634	1,195
		6	18	50	151	311	592	1,109
		7	17	48	145	305	562	1,104
		8	16	44	132	279	527	1,035
		9	14	42	123	254	483	947
		10	14	42	121	262	500	980
	2	15	20	57	148	272	484	897
		20	18	51	143	295	549	1,060
		25	19	54	160	332	634	1,195
		30	18	50	151	311	592	1,109
		35	17	48	145	305	562	1,104
		40	16	44	132	279	527	1,035
		45	14	42	123	254	483	947
		50	19	54	160	332	634	1,195
		60	18	50	151	311	592	1,109
		70	17	48	145	305	562	1,104
		80	16	44	132	279	527	1,035
		90	14	42	123	254	483	947
100	14	42	121	262	500	980		

Emergency Stop Torque (Nm)	1,2	3~100	3 times nominal output torque					
Nominal Input Speed (rpm)	1,2	3~100	5,000	5,000	4,000	4,000	3,000	3,000
Max. Input Speed (rpm)	1,2	3~100	10,000	10,000	8,000	8,000	6,000	6,000
Torsional Rigidity (Nm/arcmin)	1,2	3~100	3	7	14	26	55	143
Max. Radial Load (N)	1,2	3~100	750	1,280	3,200	6,800	9,300	15,100
Max. Axial Load (N)	1,2	3~100	390	690	1,600	3,400	4,500	7,500
Backlash (Arcmin)	S	1	3~10	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
		2	15~100	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
Service Life (Hrs)	1,2	3~100	20,000 (10,000 under continuous operation)					
Efficiency (%)	1	3~10	≥ 97					
	2	15~100	≥ 94					
Weight (kg)	1A	3~10	≤ 0.6	≤ 1.3	≤ 3.8	≤ 7.6	≤ 15.0	≤ 26.0
	2A	15~100	≤ 0.8	≤ 1.8	≤ 5.0	≤ 10.3	≤ 19.6	≤ 30.0
	2B	15~100	-	≤ 1.6	≤ 4.7	≤ 9.6	≤ 18.0	≤ 30.0
Operation Temp (°C)	1,2	3~100	-10 ~ 90					
Lubrication	1,2	3~100	Grease (VIGO Grease RE #0)					
Degree of Gearbox Protection	1,2	3~100	IP65					
Noise (dB)	1,2	3~100	≤ 52	≤ 54	≤ 56	≤ 59	≤ 62	≤ 64

Noise (dB)	1,2	3~100	≤ 52	≤ 54	≤ 56	≤ 59	≤ 62	≤ 64
Inertia (kg cm)	1A	3	0.03	0.17	0.64	3.12	9.23	29.98
		4	0.03	0.15	0.51	2.84	7.66	24.78
		5	0.03	0.13	0.48	2.81	7.52	24.29
		6	0.03	0.13	0.47	2.75	7.34	23.89
		7	0.03	0.13	0.45	2.69	7.16	23.48
		8	0.03	0.13	0.45	2.64	7.11	23.56
		9	0.03	0.13	0.44	2.59	7.05	23.63
			0.03	0.13	0.44	2.59	7.05	23.51
	2B	15~45	0.03	0.03	0.13	0.48	2.81	7.52
		50~100	0.03	0.03	0.13	0.44	2.69	7.05
	2A	15~45	-	0.13	0.48	2.81	7.52	24.29
		50~100	-	0.13	0.44	2.69	7.05	23.63