

Planetary gear reducers: V Series Performance Table

Motor capacity	Model	Reduction ratio	Output shaft speed (rpm)	Rated output torque (N·m)	Maximum allowable momentary torque (N·m)	Allowable radial load at shaft center (N)	Allowable thrust load (N)	GD2 value reduced to input shaft (kgf·cm ²)	Backlash (*2)
100W	VIS010-0030	3	1000	0.88	2.65	382	235	0.16	Within 40 min
	VIS010-0050	5	600	1.37	4.12	451	294	0.096	
	VIS010-0090	9	333	2.45	7.36	549	372	0.13	
	VIS010-0150	15	200	3.92	11.77	647	490	0.091	
	VIS010-0200	20	150	5.1	15.3	716	549	0.086	
	VIS010-0250	25	120	6.37	19.12	765	588	0.085	
200W	VIS020-0030	3	1000	1.77	5.3	706	411	1.9	Within 30 min
	VIS020-0050	5	600	2.75	8.24	843	530	1.2	
	VIS020-0090	9	333	4.9	14.71	1020	667	1.6	
	VIS020-0150	15	200	7.85	23.53	1216	843	1.1	
	VIS020-0200	20	150	10.3	30.89	1334	961	1.1	
	VIS020-0250	25	120	12.75	38.25	1432	1059	1.1	
400W	VIS040-0030	3	1000	3.43	10.3	706	412	1.9	Within 30 min
	VIS040-0050	5	600	5.39	16.18	843	530	1.2	
	VIS040-0090	9	333	9.81	29.42	1020	667	1.6	
	VIS040-0150	15	200	15.69	47.07	1216	843	1.1	
	VIS040-0200	20	150	20.59	61.78	1334	961	1.1	
	VIS040-0250	25	120	25.5	76.49	1432	1059	1.1	
750W	VIS075-0030	3	1000	6.37	19.12	961	539	4.8	Within 30 min
	VIS075-0050	5	600	9.81	29.42	1138	667	2.7	
	VIS075-0090	9	333	18.14	54.43	1383	883	3.4	
	VIS075-0150	15	200	29.24	88.26	1638	1118	2.4	
	VIS075-0200	20	150	38.25	114.74	1804	1255	2.4	
	VIS075-0250	25	120	48.05	144.16	1942	1373	2.4	
1.0KW	VIS100-0030	3	1000	8.8	26.5	1177	637	13	Within 30 min
	VIS100-0050	5	600	13.7	41.2	1373	785	8.3	
	VIS100-0090	9	333	25.5	76.5	1667	981	12	
	VIS100-0150	15	200	39.2	117.7	1961	1177	7.9	
1.5KW	VIS150-0030	3	1000	12.7	38.2	1177	637	13	Within 30 min
	VIS150-0050	5	600	20.6	61.8	1373	785	8.3	
	VIS150-0090	9	333	38.2	114.7	1667	981	12	
	VIS150-0150	15	200	57.9	173.6	1961	1177	7.9	
2.0K	VIS200-0030	3	1000	17.7	53	1177	637	13	Within 30 min
	VIS200-0050	5	600	28.4	85.3	1373	785	8.3	
	VIS200-0090	9	333	51	153	2157	1177	23	
	VIS200-0150	15	200	77.5	232.4	2550	1667	12	
2.5KW	VIS250-0030	3	1000	22.6	67.7	1471	686	25	Within 30 min
	VIS250-0050	5	600	35.3	105.9	1765	883	12	
	VIS250-0090	9	333	63.7	191.2	2157	1177	23	
	VIS250-0150	15	200	97.1	291.3	2550	1667	12	
3.0KW	VIS300-0030	3	1000	26.5	79.4	1471	686	25	Within 30 min
	VIS300-0050	5	600	42.2	126.5	1765	883	12	
	VIS300-0090	9	333	72.6	217.7	2157	1177	23	
	VIS300-0150	15	200	116.7	350.1	2550	1667	12	

(*1) This Performance Table pertains to the input rotation speed of 3,000 rpm; input rotation speed up to 5,000 rpm is supported.

(*2) Backlash is measured with the input fixed and the output side loaded.

(*3) Inertia of various motors is supported.

(*4) As regards the power range of 1.0 kW through 3.0 kW, we can consider high precision type (backlash within 10 min.)

(*5) Please contact us for details.