PG(PGA) Series
Specifications

Gearbox Performance

Model No.		Stages	Ratio[1]	PG040	PG060	PG080	PG080A	PG120	PG120A	PG160
Nominal Output Torque T_{2N}	Nm	1	3	14	39	104		215		423
			4	12	31	85		176		364
			5	14	39	104		215		423
			7	12	33	91		195		358
			10	9	26	65		150		293
		2	15	14	39	104		215		423
			16	12	31	85		176		364
			20	12	31	85		176		364
			25	14	39	104		215		423
			30	14	39	104		215		423
			35	12	33	91		195		358
			40	12	31	85		176		364
			50	14	39	104		215		423
			70	12	33	91		195		358
			100	9	26	65		150		293
Emergency Stop Torque T_{2NOT}[2]	Nm	1,2	3~100	3 times of Nominal Output Torque						
Nominal Input Speed n_{1N}	rpm	1,2	3~100	4500	4000	3600		3600		2500
Max. Input Speed n_{1B}	rpm	1,2	3~100	8000	6000	6000		4800		3600
Backlash*	arcmin	1	3~10	≤ 8	≤ 8	≤ 6		≤ 6		≤ 6
		2	15~100	≤ 10	≤ 10	≤ 8		≤ 8		≤ 8
Torsional Rigidity	Nm/arcmin	1,2	3~100	0.8	2.2	7.2		14.5		65.5
Max. Radial Load F_{2rB}[3]	N	1,2	3~100	300	680	1750		3080		6520
Max. Axial Load F_{2aB}[3]	N	1,2	3~100	150	340	875		1540		3260
Service Life	hr	1,2	3~100	20,000*						
Efficiency η	%	1	3~10	≥ 97%						
		2	15~100	≥ 94%						
Weight	kg	1	3~10	0.7	1.7	3.6	3.6	8.1	8.2	18.2
		2	15~100	1.0	2.4	5.0	5.0	11.3	11.4	24.9
Operating Temp	°C	1,2	3~100	-10°C~90°C						
Lubrication				Synthetic lubrication grease						
Degree of Gearbox Protection		1,2	3~100	IP64						
Mounting Position		1,2	3~100	all directions						
Noise Level (n_1=3000rpm, No Load)	dB(A)	1,2	3~100	≤ 68	≤ 70	≤ 72		≤ 74		≤ 75

Gearbox Inertia

Model No.		Stages	Ratio[1]	PG040	PG060	PG080	PG080A	PG120	PG120A	PG160
Mass Moments of Inertia J_1	kg.cm²	1	3	0.15	0.53	3.00		10.69		31.86
			4	0.15	0.51	2.83		10.08		29.82
			5	0.15	0.50	2.80		9.96		29.43
			7	0.15	0.50	2.79		9.91		29.26
			10	0.15	0.50	2.79		9.89		29.20
		2	15	0.15	0.50	2.80		9.96		29.43
			16	0.15	0.51	2.83		10.08		29.82
			20	0.15	0.50	2.80		9.96		29.43
			25	0.15	0.50	2.80		9.96		29.43
			30	0.15	0.50	2.80		9.96		29.43
			35	0.15	0.50	2.80		9.96		29.43
			40	0.15	0.50	2.79		9.89		29.20
			50	0.15	0.50	2.79		9.89		29.20
			70	0.15	0.50	2.79		9.89		29.20
			100	0.15	0.50	2.79		9.89		29.20

1. Ratio ($i=N_{in}/N_{out}$)
2. T_{2B} = 60% of T_{2NOT}
3. Applied to the output shaft center @ 100 rpm

*S1 service life 10,000 hrs (Consult us)

*Backlash is measured at 2% of Nominal Output Torque T_{2N}