



SG – Stainless Steel Gearbox Extreme Conditions

When environmental conditions demand a higher level of protection, corrosion resistant and washdown gear reducers from Wittenstein provide the perfect solution.

- Stainless steel housings, shafts, and fasteners
- NSF H1 approved food-grade lubricants

SG095

Ratio		i	1-stage				
			3	4	5	7	10
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	80	90	90	90	80
		in.lb	708	797	797	797	708
Nominal output torque (with n_{1N})	T_{2N}	Nm	40	45	45	45	40
		in.lb	354	398	398	398	354
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	185	190	190	190	190
		in.lb	1637	1682	1682	1682	1682
Nominal input speed (with T_{2N} and 20°C ambient temperature)	n_{1N}	rpm	2800	2800	2800	2800	2800
Max. input speed	n_{1Max}	rpm	4800	4800	4800	4800	4800
Mean no load running torque (with $n_1=3000$ rpm and 20°C gearhead temperature)	T_{012}	Nm	xxx	xxx	xxx	xxx	xxx
		in.lb	xxx	xxx	xxx	xxx	xxx
Max. torsional backlash	j_t	arcmin	Standard ≤ 12 / Reduced ≤ 8				
Torsional rigidity	C_{t21}	Nm/arcmin	8.5	9.5	9.5	9.5	8.5
		in.lb/arcmin	75	85	85	85	75
Max. axial force	F_{2AMax}	N	1900				
		lb _f	428				
Max. radial force	F_{2RMax}	N	2400				
		lb _f	540				
Efficiency at full load	η	%	97				
Service life	L_h	h	>20000				
Weight incl. standard adapter plate	m	kg	6.4				
		lb _m	14.1				
Operating noise (with $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 72				
Max. permitted housing temperature	°C		90				
	°F		194				
Ambient temperature	°C		0 to +40				
	°F		32 to 104				
Lubrication	Lubricated for life						
Paint	no paint						
Direction of rotation	Motor and gearhead same direction						
Protection class	IP67						
Moment of inertia (relates to the drive)	J_1	kgcm ²	1.83	1.62	1.55	1.47	1.43
		10 ⁻³	1.62	1.43	1.37	1.3	1.27
		in.lb.s ²					



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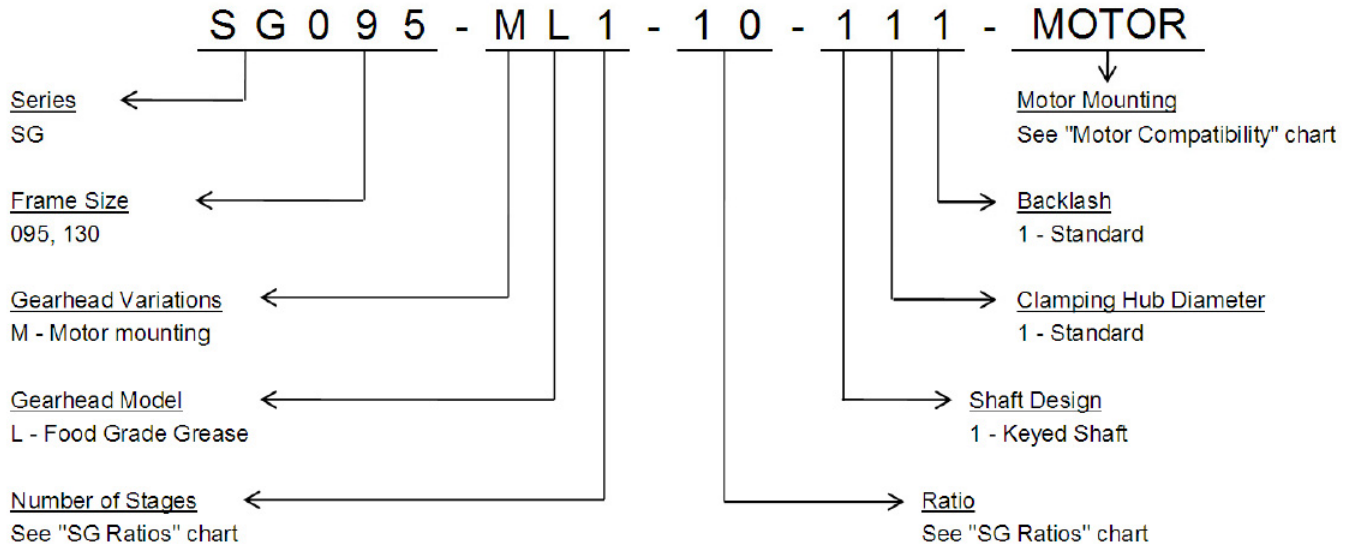
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SG130

Ratio		<i>i</i>	1-stage				
			3	4	5	7	10
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	200	200	220	220	200
		in.lb	1770	1770	1947	1947	1770
Nominal output torque (with n_{1N})	T_{2N}	Nm	100	110	110	110	100
		in.lb	885	974	974	974	885
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	400	480	480	480	480
		in.lb	3540	4248	4248	4248	4248
Nominal input speed (with T_{2N} and 20°C ambient temperature)	n_{1N}	rpm	2100	2100	2100	2100	2100
Max. input speed	n_{1Max}	rpm	3900	3900	3900	3900	3900
Mean no load running torque (with $n_1=3000$ rpm and 20°C gearhead temperature)	T_{012}	Nm	xxx	xxx	xxx	xxx	xxx
		in.lb	xxx	xxx	xxx	xxx	xxx
Max. torsional backlash	j_t	arcmin	Standard ≤ 12 / Reduced ≤ 8				
Torsional rigidity	C_{t21}	Nm/arcmin	22	25	25	25	22
		in.lb/arcmin	195	221	221	221	195
Max. axial force	F_{2AMax}	N	4000				
		lb _f	900				
Max. radial force	F_{2RMMax}	N	4600				
		lb _f	1035				
Efficiency at full load	η	%	97				
Service life	L_h	h	>20000				
Weight incl. standard adapter plate	m	kg	13.8				
		lb _m	30.4				
Operating noise (with $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 74				
Max. permitted housing temperature		°C	90				
		°F	194				
Ambient temperature		°C	0 to +40				
		°F	32 to 104				
Lubrication			Lubricated for life				
Paint			no paint				
Direction of rotation			Motor and gearhead same direction				
Protection class			IP67				
Moment of inertia (relates to the drive)	J_1	kgcm ²	6.9	5.94	5.58	5.24	5.06
		10 ⁻³	6.11	5.26	4.94	4.64	4.48
		in.lb.s ²					



alpha SG Stainless Gearbox



SG Ratios

Stages	1-Stage				
Ratios	3	4	5	7	10

Motor Compatibility

Size	Rockwell	
	MPS-x3xx	MPS-x4xx
SG095	X	
SG130		X

Contact WITTENSTEIN for motors not listed above