

SK+ 180 1/2-stage

		1-stage					2-stage												
Ratio ^{a)}	<i>i</i>		3	4	5	7	10	12	16	20	25	28	35	40	50	70	100		
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	640	640	640	550	470	640	640	640	640	640	640	640	640	550	470		
		in.lb	5664	5664	5664	4868	4160	5664	5664	5664	5664	5664	5664	5664	5664	5664	4868	4160	
Nominal output torque (with n_{10})	T_{2N}	Nm	400	400	400	380	360	400	400	400	400	400	400	400	400	380	360		
		in.lb	3540	3540	3540	3363	3186	3540	3540	3540	3540	3540	3540	3540	3540	3540	3363	3186	
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	900	1050	1050	970	900	1050	1050	1050	1050	1050	1050	1050	1050	970	900		
		in.lb	7965	9293	9293	8585	7965	9293	9293	9293	9293	9293	9293	9293	9293	8585	7965		
Nominal input speed (with T_{2N} and 20°C ambient temperature) ^{b), c)}	n_{1N}	rpm	1600	1800	2000	1800	1800	2700	2700	2700	2700	2700	2700	2700	2900	3200	3400		
Max. continuous speed (with 20% T_{2N} and 20°C ambient temperature)	n_{1Ncym}	rpm	2000	2400	2800	2500	2500	3500	3500	3500	3500	3500	3500	3500	3500	3800	3800		
Max. input speed	n_{1Max}	rpm	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000		
Mean no load running torque (with $n_1=3000$ rpm and 20°C gearhead temperature) ^{d)}	T_{012}	Nm	14.5	12.0	10.0	15.0	12.5	3.0	2.3	1.8	1.6	1.3	1.2	0.9	0.9	0.9	0.9		
		in.lb	128	106	89	133	111	26.6	20.4	15.9	14.2	11.5	10.6	8.0	8.0	8.0	8.0		
Max. torsional backlash	j_t	arcmin	≤ 4																
Torsional rigidity	C_{012}	Nm/arcmin	64	71	79	78	77	71	71	71	71	71	71	71	71	78	78	78	
		in.lb/arcmin	566	628	699	690	681	628	628	628	628	628	628	628	628	690	690	690	
Max. axial force ^{e)}	F_{2AMax}	N	14200																
		lb _f	3195																
Max. radial force ^{e)}	F_{2RMMax}	N	14700																
		lb _f	3308																
Max. tilting moment	M_{2KMMax}	Nm	3213																
		in.lb	28435																
Efficiency at full load	η	%	96					94											
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000																
Weight incl. standard adapter plate	m	kg	45.4					48											
		lb _m	100					106											
Operating noise (with $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 68																
Max. permitted housing temperature	°C		+90																
	F		194																
Ambient temperature	°C		0 to +40																
	F		32 to 104																
Lubrication	Lubricated for life																		
Paint	Blue RAL 5002																		
Direction of rotation	Motor and gearhead opposite directions																		
Protection class	IP 65																		
Moment of inertia (relates to the drive)	K	38	J_1	kgcm ²	-	-	-	-	-	15.3	14.0	12.3	12.0	10.9	10.7	10.1	10.0	9.95	9.91
				10 ⁻³ in.lb.in. ²	-	-	-	-	-	13.6	12.3	10.9	10.6	9.65	9.48	8.96	8.88	8.81	8.77
Clamping hub diameter [mm]	M	48	J_1	kgcm ²	73.3	51.6	42.1	34.0	29.7	30.0	28.7	27.1	26.7	25.6	25.4	24.8	24.7	24.7	24.6
				10 ⁻³ in.lb.in. ²	64.9	45.6	37.3	30.1	26.3	26.6	25.4	23.9	23.6	22.7	22.5	22.0	21.9	21.8	21.8

^{a)} Other ratios available on request

^{b)} Higher speeds are possible if the nominal torque is reduced

^{c)} For higher ambient temperatures, please reduce input speed

^{d)} Idling torques decrease during operation

^{e)} Refers to center of the output shaft or flange

Please contact us for information on the best configuration for S1 conditions of use (continuous operation).