

TPK+ 025 2-stage

		2-stage													
Ratio ^{a)}	<i>i</i>		12	16	20	25	28	35	40	49	50	70	100		
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	280	280	350	350	350	330	330	330	265	400	400		
		in.lb	2478	2478	3098	3098	3098	2921	1770	2921	2213	2921	2345		
Nominal output torque (with n_{1N})	T_{2N}	Nm	170	170	170	170	170	170	160	170	170	170	120		
		in.lb	1505	1505	1505	1505	1505	1505	1416	1505	1505	1505	1062		
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	400	575	575	500	625	625	400	625	500	625	625		
		in.lb	3540	5089	5089	5089	5531	5531	3540	5531	4425	5531	5531		
Nominal input speed (with T_{2N} and 20°C ambient temperature) ^{b), c)}	n_{1N}	rpm	2000	2400	2400	2700	2400	2500	2500	2500	2500	2500	2500		
Max. continuous speed (with 20% T_{2N} and 20°C ambient temperature)	n_{1Ncym}	rpm	3000	3400	3400	3800	3400	3200	3200	3200	3200	3200	3200		
Max. input speed	n_{1Max}	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000		
Mean no load running torque (with $n_1 = 3000$ rpm and 20°C gearhead temperature) ^{d)}	T_{012}	Nm	2.5	2.1	2.0	1.8	2.0	1.8	2.0	2.2	2.0	2.0	2.0		
		in.lb	22.1	18.6	17.7	15.9	17.7	15.9	17.7	19.5	17.7	17.7	17.7		
Max. torsional backlash	j_t	arcmin	Standard ≤ 4 / Reduced ≤ 2												
Torsional rigidity	C_{t21}	Nm/arcmin	40	42	53	55	59	60	44	60	55	60	56		
		in.lb/arcmin	354	372	469	487	522	531	389	531	487	531	496		
Max. axial force ^{e)}	F_{2AMax}	N	4150												
		lb _f	934												
Max. tilting moment	M_{2KMax}	Nm	413												
		in.lb	3655												
Efficiency at full load	η	%	94												
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000												
Weight incl. standard adapter plate	m	kg	9.0												
		lb _m	19.9												
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) Clamping hub diameter [mm]	E	19	J_1	kgcm ²	1.43	1.18	1.16	1.04	1.14	0.94	0.89	0.95	0.89	0.89	0.89
				10 ⁻³ in.lb.in ²	1.27	1.04	1.02	0.92	1.01	0.83	0.79	0.84	0.79	0.79	0.78
	H	28	J_1	kgcm ²	2.85	2.59	2.57	2.45	2.56	2.40	2.31	2.37	2.30	2.30	2.30
				10 ⁻³ in.lb.in ²	2.52	2.29	2.27	2.17	2.26	2.08	2.04	2.10	2.04	2.04	2.04

^{a)} Other ratios up to $i=1000$ 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).