

TPK+ 110 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	1200	1200	1500	1500	1600	1600	840	1600	1050	1470	1400		
		in.lb	10620	10620	13275	13275	14160	14160	7434	14160	9293	13010	12390		
Nominal output torque (with n_{1N})	T_{2N}	Nm	700	700	750	750	750	750	640	750	750	750	750		
		in.lb	6195	6195	6638	6638	6638	6638	5664	6638	6638	6638	6638		
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	1600	2000	2500	2500	2750	2750	1600	2750	2000	2750	2750		
		in.lb	14160	17700	22125	22125	24338	24338	14160	24338	17700	24338	24338		
Nominal input speed (with T_{2N} and 20°C ambient temperature) ^{b), c)}	n_{1N}	rpm	1600	1900	1900	2100	1900	2100	2100	2100	2100	2100	2100		
Max. continuous speed (with 20% T_{2N} and 20°C ambient temperature)	n_{1Ncym}	rpm	2300	2600	2600	2800	2600	3000	3000	3000	3000	3000	3000		
Max. input speed	n_{1Max}	rpm	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500		
Mean no load running torque (with $n_1 = 3000$ rpm and 20°C gearhead temperature) ^{d)}	T_{012}	Nm	9.0	6.5	6.5	5.5	6.0	6.0	6.0	8.0	6.0	6.0	6.0		
		in.lb	79.7	57.5	57.5	48.7	53.1	53.1	53.1	70.8	53.1	53.1	53.1		
Max. torsional backlash	j_t	arcmin	Standard ≤ 4 / Reduced ≤ 2												
Torsional rigidity	C_{t21}	Nm/arcmin	253	269	336	346	400	407	274	410	341	404	389		
		in.lb/arcmin	2239	2381	2974	3062	3540	3602	2425	3629	3018	3575	3443		
Max. axial force ^{e)}	F_{2AMax}	N	10050												
		lb _f	2261												
Max. tilting moment	M_{2KMax}	Nm	3064												
		in.lb	27116												
Efficiency at full load	η	%	94												
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000												
Weight incl. standard adapter plate	<i>m</i>	kg	41.0												
		lb _m	91												
Operating noise (with $n_1 = 3000$ rpm no load)	L_{PA}	dB(A)	≤ 70												
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]	K	38	J_1	kgcm ²	24.3	19.0	18.7	16.1	18.5	15.7	12.8	17.5	12.7	12.7	12.7
				10 ⁻³ in.lb.in ²	21.5	16.8	16.6	14.2	16.4	12.3	11.3	15.5	11.3	11.2	11.2

^{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).