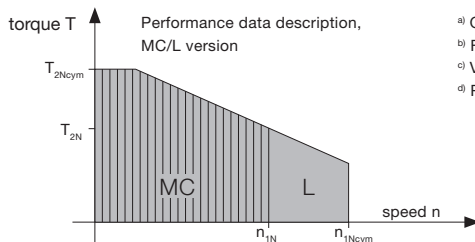


SP+ 100 MC HIGH SPEED® 1-stage

			Standard version MC					Friction optimized version L						
Ratio ^{a)}	<i>i</i>		3	4	5	7	10	3	4	5	7	10		
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	180	240	240	240	180	180	240	240	240	180		
		in.lb	1593	2124	2124	2124	1593	1593	2124	2124	2124	1593		
cymex®-optimal nominal torque (please contact us regarding the design)	T_{2Ncym}	Nm	95	135	135	135	90	95	135	135	135	90		
		in.lb	841	1195	1195	1195	797	841	1195	1195	1195	797		
Nominal output torque (with n_{1N})	T_{2N}	Nm	70	100	105	105	80	70	100	105	105	80		
		in.lb	620	885	929	929	708	620	885	929	929	708		
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	500	625	625	625	500	500	625	625	625	500		
		in.lb	4425	5531	5531	5531	4425	4425	5531	5531	5531	4425		
Nominal input speed (with T_{2N} and 20°C ambient temperature) ^{b)}	n_{1N}	rpm	3500	4000	4500	4500	4500	3500	4000	4500	4500	4500		
cymex® optimized speed (please contact us regarding the design)	n_{1Ncym}	rpm	-	-	-	-	-	4500	5000	5000	5000	5000		
Max. input speed	n_{1Max}	rpm	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) ^{c)}	T_{012}	Nm	2.4	2.1	1.8	1.1	0.8	0.7	-	-	-	-		
		in.lb	21.2	18.6	15.9	9.74	7.08	6.2	-	-	-	-		
Max. torsional backlash	j_t	arcmin	Standard ≤ 4 / Reduced ≤ 2											
Torsional rigidity	C_{t21}	Nm/ arcmin	31											
		in.lb/ arcmin	274											
Max. axial force ^{d)}	F_{2AMax}	N	5650					-						
		lb _f	1271					-						
Max. radial force ^{d)}	F_{2RMax}	N	6600					1000						
		lb _f	1485					225						
Max. tilting moment	M_{2KMax}	Nm	487					72						
		in.lb	4310					637						
Efficiency at full load	η	%	98.5					99						
Service life (For calculation, see the Chapter "Information")	L_h	h	> 30000											
Weight incl. standard adapter plate	m	kg	7.7											
		lb _m	17.0											
Operating noise (with $i=10$ and $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 64											
Max. permitted housing temperature		°C	+90											
		F	194											
Ambient temperature		°C	-15 to +40											
		F	5 to 104											
Lubrication			Lubricated for life											
Paint			Blue RAL 5002											
Direction of rotation			Motor and gearhead same direction											
Protection class			IP 65					IP 52						
Moment of inertia (relates to the drive)	G	24	J_1	kgcm ²	3.99	3.04	2.61	2.29	2.07	3.99	3.04	2.61	2.29	2.07
				10 ⁻³ in b s ²	3.53	2.69	2.31	2.03	1.83	3.53	2.69	2.31	2.03	1.83
Clamping hub diameter [mm]	K	38	J_1	kgcm ²	11.1	10.1	9.68	9.36	9.14	11.1	10.1	9.68	9.36	9.14
				10 ⁻³ in b s ²	9.78	8.95	8.57	8.28	8.09	9.78	8.95	8.57	8.28	8.09

Reduced mass moments of inertia available on request.



^{a)} Other ratios available on request

^{b)} For higher ambient temperatures, please contact us

^{c)} Valid for clamping hub diameter of 24 mm

^{d)} Refers to centre of the output shaft or flange