

SP+ 060 MF 2-stage

					2-stage									
Ratio ^{a)}			i		16	20	25	28	35	40	50	70	100	
cymex®-optimized acceleration torque (please contact us regarding the design)			T _{2Bcym}	Nm	58	58	60	58	60	58	60	54	–	
				in.lb	513	513	531	513	531	513	531	478	–	
Max. acceleration torque (max. 1000 cycles per hour)			T _{2B}	Nm	42	42	42	42	42	42	42	42	32	
				in.lb	372	372	372	372	372	372	372	372	372	283
Nominal output torque (with n _{1N})			T _{2N}	Nm	26	26	26	26	26	26	26	26	17	
				in.lb	230	230	230	230	230	230	230	230	230	150
Emergency stop torque (permitted 1000 times during the service life of the gearhead)			T _{2Not}	Nm	100	100	100	100	100	100	100	100	80	
				in.lb	885	885	885	885	885	885	885	885	885	708
Nominal input speed (with T _{2N} and 20°C ambient temperature) ^{b)}			n _{1N}	rpm	4400	4400	4400	4400	4400	4400	4800	5500	5500	
Max. input speed			n _{1max}	rpm	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	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	
				in.lb	4.4	3.5	3.5	2.7	2.7	2.7	2.7	2.7	2.7	1.8
Max. torsional backlash			j _t	arcmin	Standard ≤ 6 / Reduced ≤ 4									
Torsional rigidity			C _{t21}	Nm/ arcmin	4.5									
				in.lb/ arcmin	40									
Max. axial force ^{d)}			F _{2AMax}	N	2400									
				lb _f	540									
Max. radial force ^{d)}			F _{2RMax}	N	2800									
				lb _f	630									
Max. tilting moment			M _{2KMax}	Nm	152									
				in.lb	1345									
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	2.0									
				lb _m	4.4									
Operating noise (with i=100 and n ₁ =3000 rpm no load)			L _{PA}	dB(A)	≤ 58									
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									
Moment of inertia (relates to the drive)		B	11	J _I	kgcm ²	0.077	0.069	0.068	0.061	0.061	0.057	0.057	0.056	0.056
					10 ⁻³ in.lb.s ²	0.068	0.061	0.060	0.054	0.054	0.050	0.050	0.050	0.050
Clamping hub diameter [mm]		C	14	J _I	kgcm ²	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
					10 ⁻³ in.lb.s ²	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.13

Reduced mass moments of inertia available on request.

^{a)} Other ratios available on request

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

^{c)} Valid for clamping hub diameter of 11 mm

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