

SP+ 060 MF 2-stage

					2-stage								
Ratio ^{a)}			<i>i</i>		16	20	25	28	35	40	50	70	100
cymex®-optimized acceleration torque (please contact us regarding the design)			<i>T</i> _{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)			<i>T</i> _{2B}	Nm	42	42	42	42	42	42	42	42	32
				in.lb	372	372	372	372	372	372	372	372	372
Nominal output torque (with <i>n</i> _m)			<i>T</i> _{2N}	Nm	26	26	26	26	26	26	26	26	17
				in.lb	230	230	230	230	230	230	230	230	230
Emergency stop torque (permitted 1000 times during the service life of the gearhead)			<i>T</i> _{2Not}	Nm	100	100	100	100	100	100	100	100	80
				in.lb	885	885	885	885	885	885	885	885	885
Nominal input speed (with <i>T</i> _{2N} and 20°C ambient temperature) ^{b)}			<i>n</i> _{1N}	rpm	4400	4400	4400	4400	4400	4400	4800	5500	5500
Max. input speed			<i>n</i> _{1max}	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000
Mean no load running torque (with <i>n</i> _i =3000 rpm and 20°C gearhead temperature) ^{c)}			<i>T</i> 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
Max. torsional backlash			<i>j</i> _t	arcmin	Standard ≤ 6 / Reduced ≤ 4								
Torsional rigidity			<i>C</i> _{t21}	Nm/ arcmin	4.5								
				in.lb/ arcmin	40								
Max. axial force ^{d)}			<i>F</i> _{2AMax}	N	2400								
				lb _f	540								
Max. radial force ^{d)}			<i>F</i> _{2RMax}	N	2800								
				lb _f	630								
Max. tilting moment			<i>M</i> _{2KMax}	Nm	152								
				in.lb	1345								
Efficiency at full load			η	%	94								
Service life (For calculation, see the Chapter “Information”)			<i>L</i> _h	h	> 20000								
Weight incl. standard adapter plate			<i>m</i>	kg	2.0								
				lb _m	4.4								
Operating noise (with <i>i</i> =100 and <i>n</i> _i =3000 rpm no load)			<i>L</i> _{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	<i>J</i> _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	<i>J</i> _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