

SP+ 075 MF 1-stage

				1-stage					
Ratio ^{a)}	<i>i</i>		3	4	5	7	10		
cymex®-optimized acceleration torque (please contact us regarding the design)	T_{2Bcym}	Nm	–	142	160	142	100		
		in.lb	–	1254	1416	1254	883		
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	85	110	110	110	95		
		in.lb	752	974	974	974	841		
Nominal output torque (with n_{2N})	T_{2N}	Nm	47	75	75	75	52		
		in.lb	416	664	664	664	460		
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	200	250	250	250	200		
		in.lb	1770	2213	2213	2213	1770		
Nominal input speed (with T_{2N} and 20°C ambient temperature ^{b)})	n_{1N}	rpm	2900	2900	2900	3100	3100		
Max. input speed	n_{1Max}	rpm	6000	6000	6000	6000	6000		
Mean no load running torque (with $n_1=3000$ rpm and 20°C gearhead temperature ^{c)})	T_{012}	Nm	1.8	1.4	1.1	0.8	0.6		
		in.lb	15.9	12.4	9.7	7.1	5.3		
Max. torsional backlash	j_t	arcmin	Standard ≤ 4 / Reduced ≤ 2						
Torsional rigidity	C_{t21}	Nm/ arcmin	10						
		in.lb/ arcmin	89						
Max. axial force ^{d)}	F_{2AMax}	N	3350						
		lb _f	754						
Max. radial force ^{d)}	F_{2RMax}	N	4200						
		lb _f	945						
Max. tilting moment	M_{2KMax}	Nm	236						
		in.lb	2089						
Efficiency at full load	η	%	97						
Service life (For calculation, see the Chapter "Information")	L_h	h	> 20000						
Weight incl. standard adapter plate	m	kg	3.9						
		lb _m	8.6						
Operating noise (with $i=10$ and $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 59						
Max. permitted housing temperature			°C						
			°F						
Ambient temperature			°C						
			°F						
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)	C	14	J_1	kgcm ²	0.86	0.61	0.51	0.42	0.38
				10 ³ in.lb.s ²	0.76	0.54	0.46	0.37	0.33
Clamping hub diameter [mm]	E	19	J_1	kgcm ²	1.03	0.78	0.68	0.59	0.54
				10 ³ in.lb.s ²	0.91	0.69	0.60	0.52	0.48
	G	24	J_1	kgcm ²	2.40	2.15	2.05	1.96	1.91
				10 ³ in.lb.s ²	2.12	1.90	1.81	1.73	1.69

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 19 mm

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