WITTENSTEIN | alpha

Product data sheet

CP

Low backlash planetary gearbox



Gearbox data	
Designation: CP025S-MF1-10-1G1-2S	
Gearbox type	CP
Gearbox size	025
Design keyword	Standard
Gearbox variation	Motor attachment gearbox
Gearbox stages	1
Gearbox ratio i	10
Output design	Key
Clamping hub diameter	24 mm
Gearbox backlash	Standard
Gearbox material number	20076929

Technical specifications		
Max. output torque (Depending on the specific boundary conditions of the application) a) b) d)	$T_{2\alpha}$	144 Nm
Max. acceleration torque d) (max. 1000 cycles per hour)	T_{2B}	90 Nm
Nominal output torque (with n_{1N})	T_{2N}	45 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearbox) a) b) d)	T_{2Not}	187 Nm
Nominal input speed (with T_{2N} and 20°C ambient temperature) c)	n_{1N}	3600 min^{-1}
Max. input speed	n_{1Max}	7000 min^{-1}
Mean no load running torque (with n_1=3000 min^{-1} and 20°C gearbox temp.)	T_{012}	0.19 Nm
Max. torsional backlash	j_t	≤ 12 arcmin
Torsional rigidity a)	C_{t21}	5.5 Nm/arcmin
Max. axial force b)	F_{2AMax}	1600 N
Max. radial force b)	F_{2RMax}	1200 N
Max. tilting moment	M_{2KMax}	54 Nm
Efficiency at full load	η	97 %
Service life (for calculation, see the Chapter "Information" in our product catalogue)	L_h	> 20000 h
Weight incl. standard adapter plate	m	2.9 kg
Operating noise (with n_1=3000 min^{-1} no load)	L_{PA}	≤ 62 dB(A)
Max. permitted housing temperature		90 °C
Ambient temperature		-15 °C to 40 °C
Lubrication		lubricated for life
Paint		Dark pearl gray
Protection class		IP 64
Inertia (relates to the drive)	J_1	1.3 $kgcm^2$

a) Valid for torque transmission only
b) Refers to center of the output shaft or flange
c) For higher ambient temperatures, please reduce input speed
d) Valid for: Smooth shaft
e) Must be ordered separately