

Product data sheet

CP

Low backlash planetary gearbox



Gearbox data	
Designation: CP035S-MF1-10-1G1-2S	
Gearbox type	CP
Gearbox size	035
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

Motor mounting parts (included in delivery)	
Incl. mounting parts for servo motor	Rockwell MPL-A4530K
Adapter plate	20070429

Order designation
CP035S-MF1-10-1G1-2S / Rockwell MPL-A4530K

Technical specifications		
Max. output torque (Depending on the specific boundary conditions of the application) a) b) d)	T _{2a}	272 Nm
Max. acceleration torque d) (max. 1000 cycles per hour)	T _{2B}	220 Nm
Nominal output torque (with n _{1N})	T _{2N}	110 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearbox) a) b) d)	T _{2Not}	480 Nm
Nominal input speed (with T _{2N} and 20°C ambient temperature) c)	n _{1N}	2800 min ⁻¹
Max. input speed	n _{1Max}	5500 min ⁻¹
Mean no load running torque (with n ₁ =3000 min ⁻¹ and 20°C gearbox temp.)	T ₀₁₂	0.48 Nm
Max. torsional backlash	j _t	≤ 12 arcmin
Torsional rigidity a)	C _{t21}	14.5 Nm/arcmin
Max. axial force b)	F _{2AMax}	2500 N
Max. radial force b)	F _{2RMax}	1750 N
Max. tilting moment	M _{2KMax}	98 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	7.5 kg
Operating noise (with n ₁ =3000 min ⁻¹ no load)	L _{PA}	≤ 66 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	1.4 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