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)	$T_{2\alpha}$	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