

Product data sheet

LP⁺Gen3

Low backlash planetary gearhead



Gearhead data	
Designation: LP050S-MF2-35-1C1-3S	
Gear type	LP ⁺ Gen3
Gear size	050
Design keyword	Standard
Gear variation	Motor attachment gearhead
Gear stages	2
Gear ratio i	35
Output design	Key
Clamping hub diameter	14 mm
Gear backlash	Standard

Motor mounting parts (included in delivery)	
Incl. mounting parts for servo motor	SIEMENS AG 1FL6032-2AF21-1AA1
Adapter plate	10001106
Gear bushing	10001222

Order designation	
LP050S-MF2-35-1C1-3S / SIEMENS AG 1FL6032-2AF21-1AA1	

Technical specifications		
Max. acceleration torque (max. 1000 cycles per hour)	T _{2B}	14 Nm
Nominal output torque (with n _{2N})	T _{2N}	6.5 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T _{2Not}	26 Nm
Nominal input speed (with T _{2N} and 20°C ambient temperature ^{a)})	n _{1N}	4000 min ⁻¹
Max. input speed	n _{1Max}	8000 min ⁻¹
Mean no load running torque (with n ₁ =3000 min ⁻¹ and 20°C gearhead temp.)	T ₀₁₂	0.05 Nm
Max. torsional backlash	j _t	≤ 13 arcmin
Torsional rigidity	C _{t21}	1.2 Nm/arcmin
Max. axial force ^{b)}	F _{2AMax}	700 N
Max. radial force ^{b)}	F _{2RMax}	650 N
Max. tilting moment	M _{2KMax}	18.9 Nm
Efficiency at full load	η	95 %
Service life (for calculation, see the Chapter "Information" in our product catalogue)	L _h	> 20000 h
Weight incl. standard adapter plate	m	0.95 kg
Operation 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		Blue RAL 5002
Protection class		IP 64
Inertia (relates to the drive)	J ₁	0.19 kgcm ²

a) For higher ambient temperatures, please reduce input speed

b) Refers to center of the output shaft or flange, with n₂ = 100 min⁻¹