Product data sheet

WITTENSTEIN | alpha

SK+

Low backlash servo right-angle gearbox



Gearbox data	
Designation: SK+075F-MF1-10-0E1-1K	
Gearbox type	SK+
Gearbox size	075
Design keyword	Food-grade lubrication
Gearbox variation	Motor attachment gearbox
Gearbox stages	1
Gearbox ratio i	10
Output design	Smooth shaft + closed cover
Clamping hub diameter	19 mm
Gearbox backlash	Standard
Gearbox material number	20038265

Motor mounting parts (included in delivery)	
Incl. mounting parts for servo motor	Rockwell MPL-B320P
Adapter plate	20029099
Gearbox bushing	20000288

Order designation
SK+075F-MF1-10-0E1-1K / Rockwell MPL-B320P

Technical specifications		
Max. output torque (Depending on the specific boundary conditions of the application)	$T_{2\alpha}$	40 Nm
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	40 Nm
Nominal output torque (with n_{1N})	T_{2N}	32 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearbox)	T_{2Not}	80 Nm
Nominal input speed (with T_{2N} and 20°C ambient temperature) a), b)	n_{1N}	2800 min^{-1}
Max. input speed	n_{1Max}	7500 min^{-1}
Mean no load running torque (with n_1=3000 min^{-1} and 20°C gearbox temp.) c)	T_{012}	2 Nm
Max. torsional backlash	j_t	≤ 4 arcmin
Torsional rigidity	C_{t21}	6 Nm/arcmin
Max. axial force d)	F_{2AMax}	3400 N
Max. radial force d)	F_{2RMax}	4000 N
Max. tilting moment	M_{2KMax}	437 Nm
Efficiency at full load	η	96 %
Service life (for calculation, see the Chapter "Information"" in our product catalogue)	L_h	> 20000 h
Weight incl. standard adapter plate	m	4.8 kg
Operating noise (with n_1=3000 min^{-1} no load)	L_{PA}	≤ 66 dB(A)
Max. permitted housing temperature		90 °C
Ambient temperature		0 °C to 40 °C
Lubrication		food grade lubrication
Paint		Innovation blue
Protection class		IP 65
Inertia (relates to the drive)	J_1	0.9 $kgcm^2$

a) Higher speeds are possible if the nominal torque is reduced
b) For higher ambient temperatures, please reduce input speed
c) Idling torques decrease during operation
d) Refers to center of the output shaft or flange

All technical data for front output side applies.
Technical data for rearward output versions, see product catalogue.

Please contact us for information on the best configuration for S1 conditions of use (continuous operation).