

# Product data sheet

**XP+**

Low backlash planetary gearbox



Gearbox data	
Designation:	XP030S-MF2-40-1G1-2S
Gearbox type	XP+
Gearbox size	030
Design keyword	Standard
Gearbox variation	Motor attachment gearbox
Gearbox stages	2
Gearbox ratio i	40
Output design	Key
Clamping hub diameter	24 mm
Gearbox backlash	Standard
Gearbox material number	20028101

Motor mounting parts (included in delivery)	
Incl. mounting parts for servo motor	SIEMENS AG 1FK7060-2AC71
Adapter plate	20025228

Order designation	
XP030S-MF2-40-1G1-2S / SIEMENS AG 1FK7060-2AC71	

Confirm motor compatibility with cymex® 5. Download your pre-configured file and base 3D model here!<sup>d)</sup>



Don't have cymex® 5? Get your Premium license here!



Technical specifications		
Max. output torque (Depending on the specific boundary conditions of the application)	T <sub>2α</sub>	660 Nm
Max. acceleration torque (max. 1000 cycles per hour)	T <sub>2B</sub>	550 Nm
Nominal output torque (with n <sub>IN</sub> )	T <sub>2N</sub>	319 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearbox)	T <sub>2Not</sub>	1000 Nm
Nominal input speed (with T <sub>2N</sub> and 20°C ambient temperature) <sup>a)</sup>	n <sub>1N</sub>	3100 min <sup>-1</sup>
Max. input speed	n <sub>1Max</sub>	6500 min <sup>-1</sup>
Mean no load running torque (with n <sub>1</sub> =3000 min <sup>-1</sup> and 20°C gearbox temp.) <sup>b)</sup>	T <sub>012</sub>	0.62 Nm
Max. torsional backlash	j <sub>t</sub>	≤ 4 arcmin
Torsional rigidity <sup>b)</sup>	C <sub>t21</sub>	45 Nm/arcmin
Tilting rigidity	C <sub>2K</sub>	675 Nm/arcmin
Max. axial force <sup>c)</sup>	F <sub>2AMax</sub>	6700 N
Max. radial force <sup>c)</sup>	F <sub>2RMax</sub>	9000 N
Max. tilting moment	M <sub>2KMax</sub>	1296 Nm
Efficiency at full load	η	94 %
Service life (for calculation, see the Chapter "Information" in our product catalogue)	L <sub>h</sub>	> 20000 h
Weight incl. standard adapter plate	m	7.6 kg
Operating noise (with n <sub>1</sub> =3000 min <sup>-1</sup> no load)	L <sub>PA</sub>	≤ 56 dB(A)
Max. permitted housing temperature		90 °C
Ambient temperature		-15 °C to 40 °C
Lubrication		lubricated for life
Paint		Innovation blue
Protection class		IP 65
Inertia (relates to the drive)	J <sub>1</sub>	1.92 kgcm <sup>2</sup>

a) For higher ambient temperatures, please reduce input speed

b) Depends on clamping hub diameter

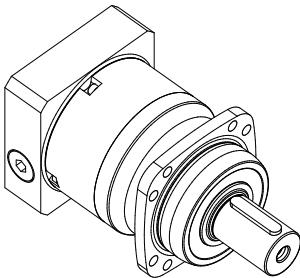
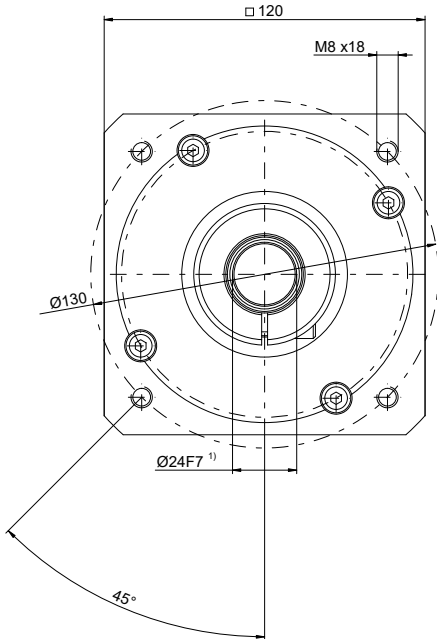
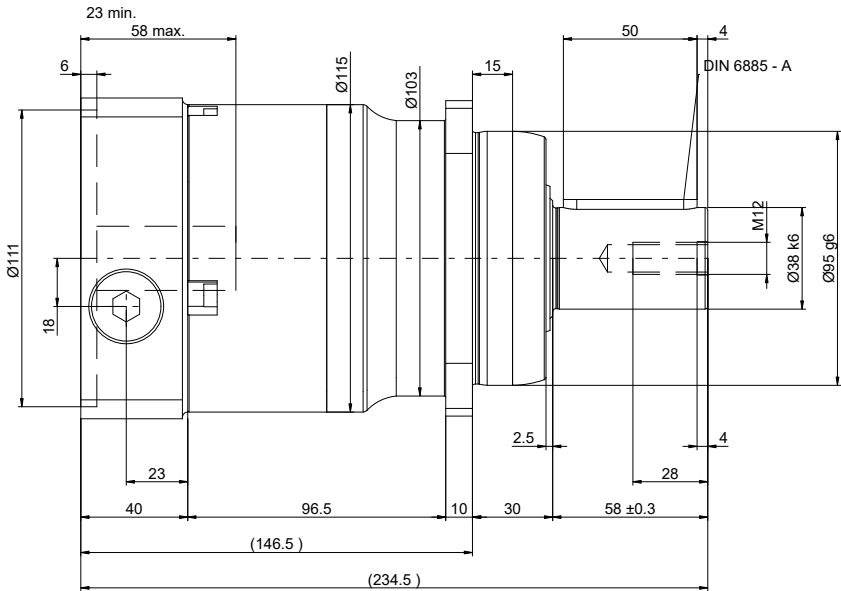
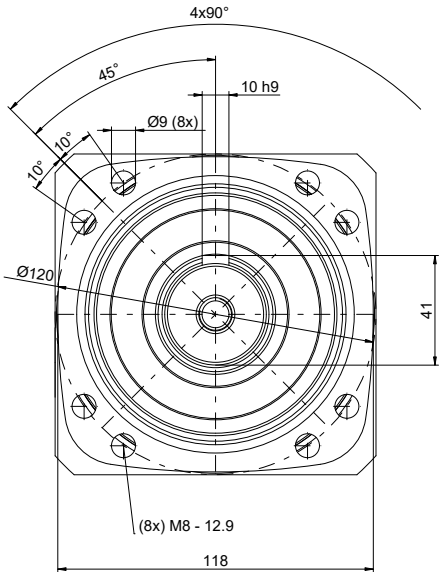
c) Refers to center of the output shaft or flange

d) Use cymex® 5 to confirm adapter plate dimensions and motor compatibility

New to cymex® 5? Learn how to check motor compatibility quickly with a simple tutorial.



Please note: adapter plate dimensions may vary based on specified motor



1) Motorwellenpassung pruefen / Check motor shaft fit

Technische Aenderungen vorbehalten / Technical modifications reserved

Betriebsanleitung unter [www.wittenstein-alpha.de](http://www.wittenstein-alpha.de) / Operating manual on [www.wittenstein-alpha.de](http://www.wittenstein-alpha.de)

Nicht tolerierte Masse sind Nennmasse / Non-toleranced dimensions are nominal dimensions

gez/draft		Masstab Scale	
Datum/date	21.03.2023	auto	
Eigentumsvorbehalt nach DIN 34 beachten !	Observe copyright note according to DIN 34 !		
Benenn. Descr.	XP 030S-MF2- 40-1G1-2S		
Kommentar Note	SIEMENS AG - 1FK7060-2AC71		
MN	20028101	DIN A3	Urspr./Ref-Drwg: CAD-Generator V2.0 Blatt/Sheet: 1



nicht vertraulich