

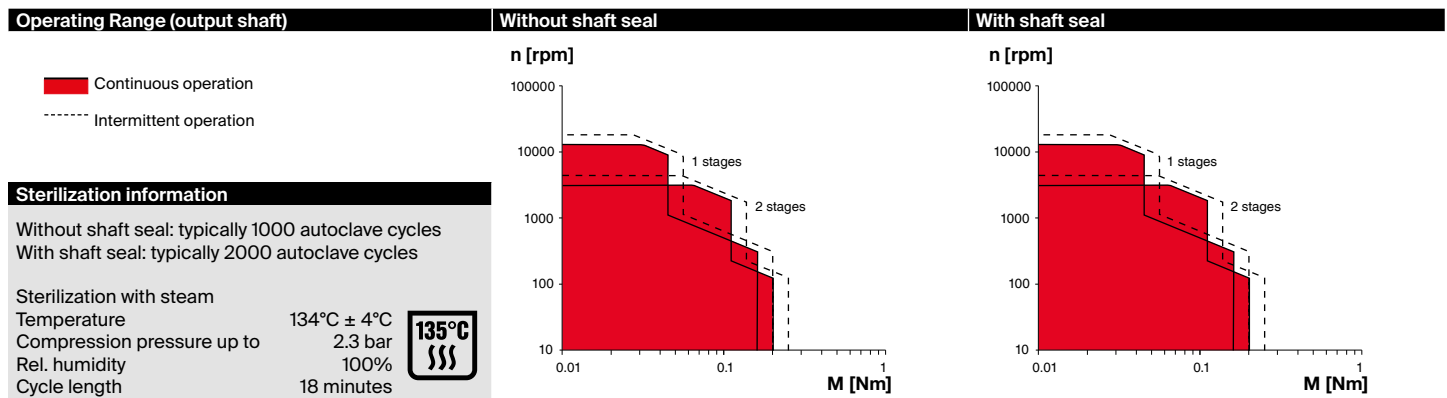
GPX 16 SPEED $\varnothing 16$ mm, planetary gearhead

Sterilizable

GPX



Key Data	Without shaft seal*	With shaft seal*
Max. transmittable power	W 42 (5.2)	42 (5.2)
Max. continuous torque	Nm 0.11 (0.2)	0.11 (0.2)
Max. continuous input speed	rpm 50 000	50 000
Ambient temperature	$^{\circ}\text{C}$ -10 ... +135	-10 ... +135
Bearing at output	Ball bearing	Ball bearing



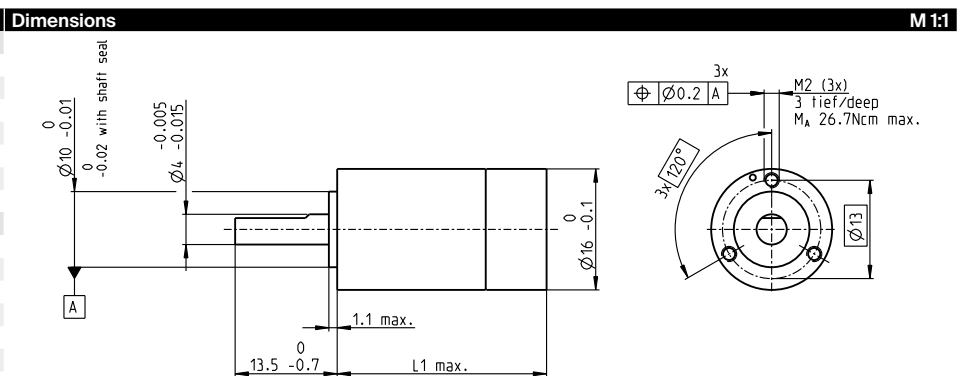
Sterilization information	
Without shaft seal:	typically 1000 autoclave cycles
With shaft seal:	typically 2000 autoclave cycles
Sterilization with steam	
Temperature	134 $^{\circ}\text{C}$ \pm 4 $^{\circ}\text{C}$
Compression pressure up to	2.3 bar
Rel. humidity	100%
Cycle length	18 minutes



Specifications	Without shaft seal*	With shaft seal*
Number of stages	1 2	1 2
Max. transmittable continuous power	W 42 (5.2) 21 (2.6)	42 (5.2) 21 (2.6)
Max. transmittable intermittent power	W 52 (6.5) 25 (3.3)	52 (6.5) 25 (3.3)
Max. continuous torque	Nm 0.045 (0.16) 0.11 (0.20)	0.045 (0.16) 0.11 (0.20)
Max. intermittent torque	Nm 0.055 (0.20) 0.140 (0.25)	0.055 (0.20) 0.140 (0.25)
Max. continuous input speed	rpm 50 000	50 000
Max. intermittent input speed	rpm 70 000	70 000
Max. efficiency	% 85 80	85 80
Average backlash no load	$^{\circ}$ 1.4 1.6	1.4 1.6
Max. axial load (dynamic)	N 30.0 30.0	30.0 30.0
Max. radial load, 5 mm from flange	N 25.0 35.0	15.0 20.0
Gearhead length L ¹	mm 27.7 35.1	35.3 42.7
Weight	g 27 35	37 45

Configuration	Without shaft seal	With shaft seal
Number of stages	1 2	1 2
Reduction	X:1 3.9, 5.3, 6.6	3.9, 5.3, 6.6
Absolute reduction: (see online)	16, 21, 26, 28, 35, 44	16, 21, 26, 28, 35, 44
Version	Without shaft seal/With shaft seal	
Flange	Standard flange	
Shaft	Length/flat face/cross hole	

maxon Modular System	Page	Dimensions
maxon EC motor N° of stages [opt.]		
ECX SPEED 16 M	1-2 195-198	
ECX SPEED 16 L	1-2 199-202	



¹This length may vary depending on the configuration and choice of motor. The effective length is calculated at the end of the configuration process.

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*Values in parentheses apply in case of reduced speed (according to diagram).