GPX 22 SPEED ⌀22 mm, planetary gearhead

Sterilizable
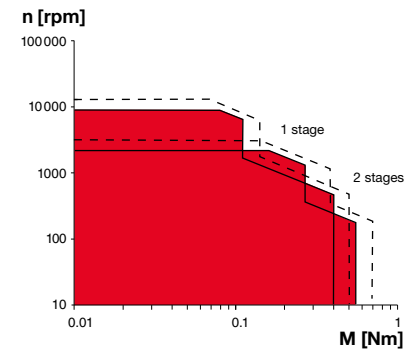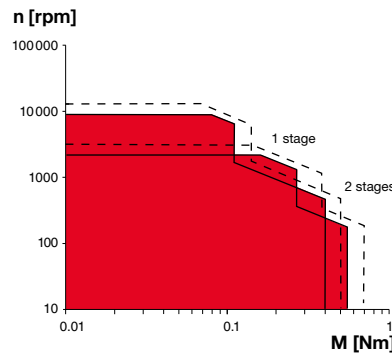

Key Data		Without shaft seal	With shaft seal
Max. transmittable power	W	74 (20)	74 (20)
Max. continuous torque	Nm	0.27 (0.55)	0.27 (0.55)
Max. continuous input speed	rpm	35 000	35 000
Ambient temperature	°C	-10 ... +135	-10 ... +135
Bearing at output		Ball bearing	Ball bearing

Operating Range (output shaft)

■ Continuous operation

- - - - Intermittent operation

Sterilization information

Without shaft seal: typically 1000 autoclave cycles
With shaft seal: typically 2000 autoclave cycles

Sterilization with steam
Temperature	134°C ± 4°C
Compression pressure up to	2.3 bar
Rel. humidity	100%
Cycle length	18 minutes

135°C

Specifications		Without shaft seal*		With shaft seal*	
Number of stages		1	2	1	2
Max. transmittable continuous power	W	74 (20)	37 (10)	74 (20)	37 (10)
Max. transmittable intermittent power	W	92 (25)	46 (13)	92 (25)	46 (13)
Max. continuous torque	Nm	0.11 (0.4)	0.27 (0.55)	0.11 (0.4)	0.27 (0.55)
Max. intermittent torque	Nm	0.14 (0.5)	0.38 (0.7)	0.14 (0.5)	0.38 (0.7)
Max. continuous input speed	rpm	35000	35000	35000	35000
Max. intermittent input speed	rpm	50000	50000	50000	50000
Max. efficiency	%	85	80	85	80
Average backlash no load	°	1.4	1.6	1.4	1.6
Max. axial load (dynamic)	N	80.0	80.0	80.0	80.0
Max. radial load, 10 mm from flange	N	45.0	75.0	30.0	50.0
Gearhead length L1[1]	mm	30.8	40.9	38.6	48.6
Weight	g	65	86	85	106

Configuration		Without shaft seal		With shaft seal	
Number of stages		1	2	1	2
Reduction	X:1	3.9, 5.3, 6.6	16, 21, 26, 28, 35, 44	3.9, 5.3, 6.6	16, 21, 26, 28, 35, 44
Absolute reduction: (see online)					

Version	Without shaft seal/With shaft seal
Flange	Standard flange
Shaft	Length/flat face/cross hole

maxon Modular System		Page
maxon EC motor	**Nº of stages [opt.]**	
ECX SPEED 19 M	[3]	203–206
ECX SPEED 19 L	[3]	207–210
ECX SPEED 22 M	1–2	211–212
ECX SPEED 22 L	1–2	215–216

Dimensions   M 1:2
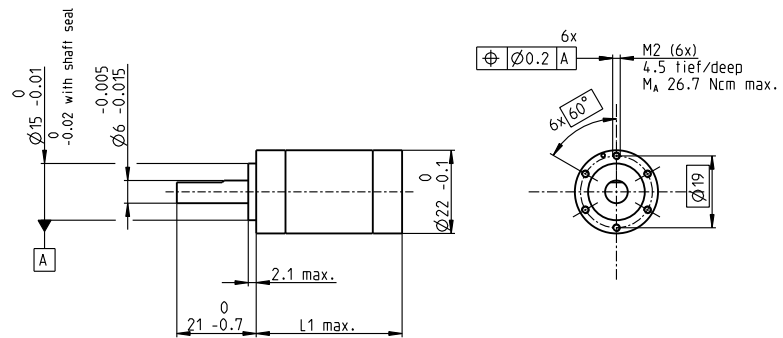
[1]This length may vary depending on the configuration and choice of motor. The effective length is calculated at the end of the configuration process.

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

GPX