GPX 16 ⌀16 mm, planetary gearhead

| Key Data		A Standard Version	C Ceramic Version
Max. transmittable power	W	6.5	7.8
Max. continuous torque	Nm	0.45	0.6
Max. continuous input speed	rpm	16 000	16 000
Ambient temperature	°C	-40 ... +100	-40 ... +100
Bearing at output		Ball bearing	Ball bearing

Operating Range (output shaft)

Continuous operation

Intermittent operation

A Standard Version
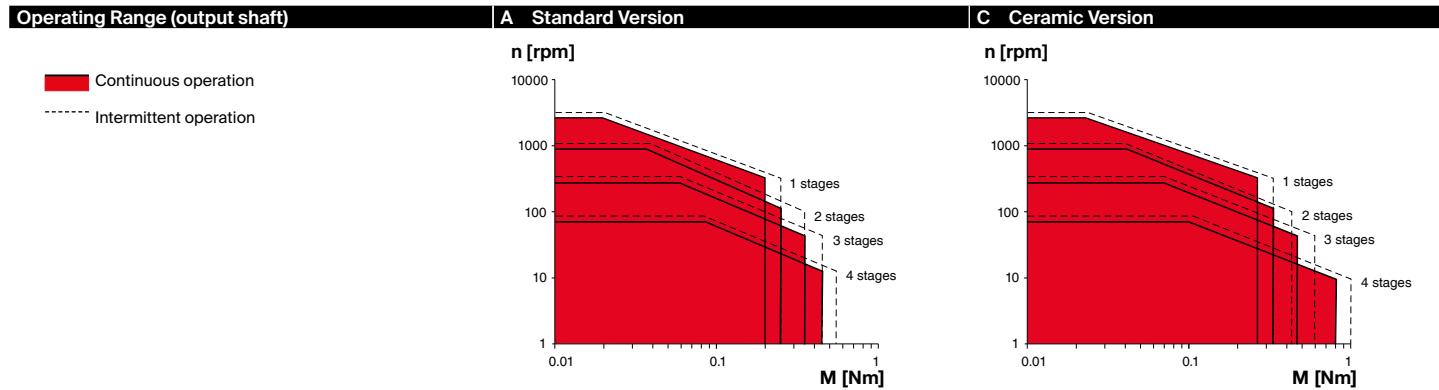
C Ceramic Version

Specifications		A Standard Version				C Ceramic Version			
Number of stages		1	2	3	4	1	2	3	4
Max. transmittable continuous power	W	6.5	3.2	1.6	0.60	7.8	3.8	1.9	0.7
Max. transmittable intermittent power	W	8.0	4.0	2.0	0.75	10.0	5.0	2.5	1.0
Max. continuous torque	Nm	0.20	0.25	0.35	0.45	0.27	0.33	0.47	0.60
Max. intermittent torque	Nm	0.25	0.35	0.45	0.55	0.33	0.42	0.58	0.75
Max. continuous input speed	rpm	12000	14000	16000	16000	12000	14000	16000	16000
Max. intermittent input speed	rpm	15000	17500	20000	20000	15000	17500	20000	20000
Max. efficiency	%	90	80	75	65	90	80	75	65
Average backlash no load	°	1.0	1.2	1.3	1.4	1.0	1.2	1.3	1.4
Max. axial load (dynamic)	N	20	20	20	20	20	20	20	20
Max. radial load, 5 mm from flange	N	30	45	70	70	30	45	70	70
Gearhead length L1[1]	mm	15.8	20.7	25.7	30.6	15.8	20.7	25.7	30.6
Weight	g	20	25	27	31	20	25	27	31

Configuration		A Standard Version				C Ceramic Version			
Number of stages		1	2	3	4	1	2	3	4
Reduction Absolute reduction: (see online)	X:1	3.9, 5.3, 6.6	16, 21, 26, 28, 35, 44	62, 83, 103, 111, 138, 150, 172, 186, 231	243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526	3.9, 5.3, 6.6	16, 21, 26, 28, 35, 44	62, 83, 103, 111, 138, 150, 172, 186, 231	243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526
Version		Standard/ceramic version/noise reduced/reduced backlash/high power							
Flange		Standard flange/configurable flange							
Shaft		Length/flat face							

maxon Modular System			Page
maxon DC motor	Nº of stages [opt.]		
DCX 14 L		3–4	91–92
DCX 16 S		1–2 [3–4]	93–94
DCX 16 L		1–2 [3–4]	95–96
DC-max 16 S*		1–2 [3–4]	109–110
maxon EC motor	Nº of stages [opt.]		
ECX SPEED 13 M		3–4	187–188
ECX SPEED 13 L		3–4	191–192
ECX SPEED 16 M		1–2 [3–4]	195–196
ECX SPEED 16 L		1–2 [3–4]	199–200
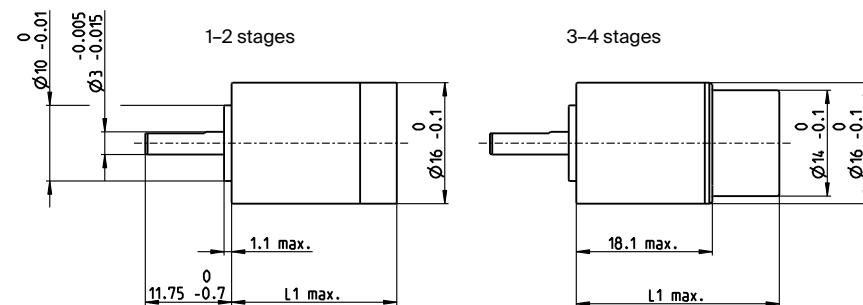
*Limited selection of reduction ratios (see online).

Dimensions — M 1:1

1–2 stages

3–4 stages

[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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