

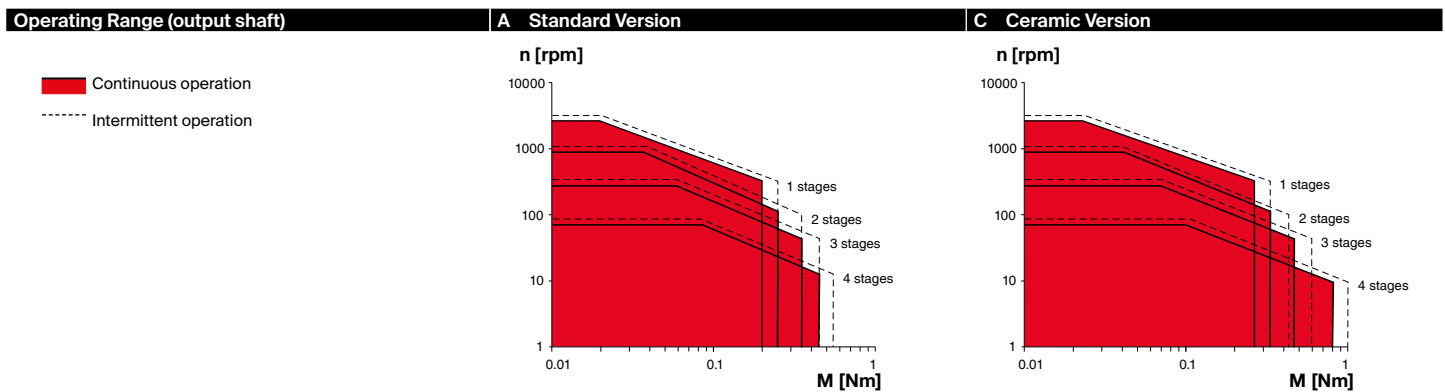
GPX 16

Planetary Gearhead $\varnothing 16$ mm



GPX

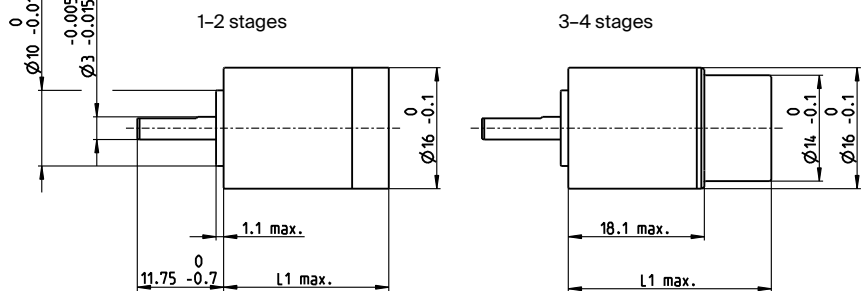
Key Data		A Standard Version	C Ceramic Version
Max. transmittable power	W	6.5	7.8
Max. continuous torque	Nm	0.45	0.6
Max. continuous input speed	rpm	16 000	16 000
Ambient temperature	°C	-40 ... +100	-40 ... +100
Bearing at output		Ball bearing	Ball bearing



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	W 7.8 3.8 1.9 0.7
Max. transmittable intermittent power	W 8.0 4.0 2.0 0.75	W 10.0 5.0 2.5 1.0
Max. continuous torque	Nm 0.20 0.25 0.35 0.45	Nm 0.27 0.33 0.47 0.60
Max. intermittent torque	Nm 0.25 0.35 0.45 0.55	Nm 0.33 0.42 0.58 0.75
Max. continuous input speed	rpm 12000 14000 16000 16000	rpm 12000 14000 16000 16000
Max. intermittent input speed	rpm 15000 17500 20000 20000	rpm 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	N 20 20 20 20
Max. radial load, 5 mm from flange	N 30 45 70 70	N 30 45 70 70
Gearhead length L1 ¹	mm 15.8 20.7 25.7 30.6	mm 15.8 20.7 25.7 30.6
Weight	g 20 25 27 31	g 20 25 27 31

Configuration	A Standard Version	C Ceramic Version
Number of stages	1 2 3 4	1 2 3 4
Reduction	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	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
Absolute reduction: (see online)		
Version	Standard/ceramic version/noise reduced/reduced backlash/high power	
Flange	Standard flange/configurable flange	
Shaft	Length/flat face	

maxon Modular System	Page	Dimensions	M 11
maxon DC motor Nº of stages [opt.]			
DCX 14 L	3-4	81-82	
DCX 16 S	1-2 [3-4]	83-84	
DCX 16 L	1-2 [3-4]	85-86	
DC-max 16 S*	1-2 [3-4]	99-100	
maxon EC motor Nº of stages [opt.]			
ECX SPEED 13 M	3-4	177-180	
ECX SPEED 13 L	3-4	181-184	
ECX SPEED 16 M	1-2 [3-4]	185-188	
ECX SPEED 16 L	1-2 [3-4]	189-192	



*Limited selection of reduction ratios (see online).

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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