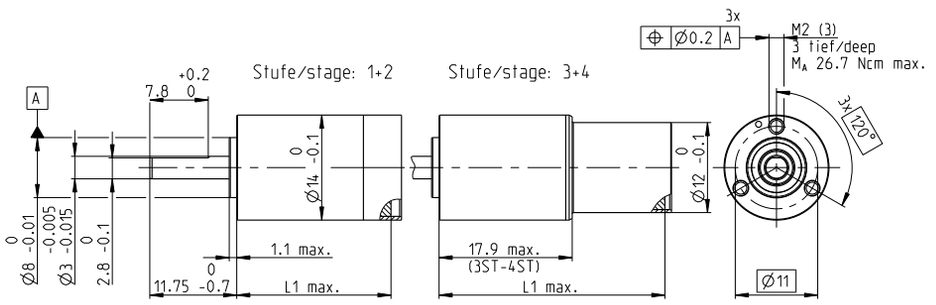
GPX 14 ∅14 mm, planetary gearhead



GPX

M 1:1

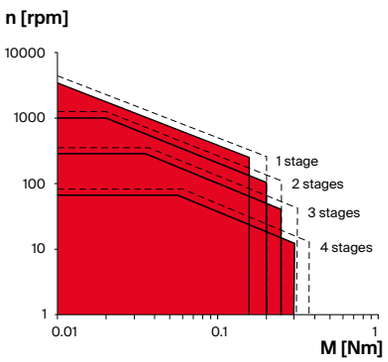
Key data		LN Noise reduced	LZ Backlash reduced
Max. transmittable power	W	3.2	3
Max. continuous torque	Nm	0.24	0.3
Max. continuous input speed	rpm	16000	16000
Ambient temperature	°C	-40...+85	-40...+100
Bearing at output		Ball bearing	Ball bearing
Typical noise level	dBA	-5 dBA compared to standard configuration	

Operating range (output shaft)

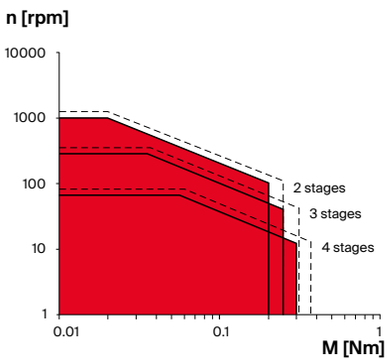
Continuous operation

Intermittent operation

LN Noise reduced



LZ Backlash reduced



Specifications		LN Noise reduced				LZ Backlash reduced		
Number of stages		1	2	3	4	2	3	4
Max. transmittable continuous power	W	3.2	1.6	0.8	0.3	2.0	1.0	0.4
Max. transmittable intermittent power	W	4.0	2.0	1.0	0.4	2.5	1.25	0.5
Max. continuous torque	Nm	0.13	0.16	0.20	0.24	0.20	0.25	0.30
Max. intermittent torque	Nm	0.16	0.20	0.25	0.30	0.25	0.31	0.38
Max. continuous input speed	rpm	14000	16000	16000	16000	16000	16000	16000
Max. intermittent input speed	rpm	17500	20000	20000	20000	20000	20000	20000
Max. efficiency	%	90	80	75	65	80	75	65
Average backlash no load	°	1.1	1.3	1.45	1.7	0.95	1.05	1.2
Max. axial load (dynamic)	N	20	20	20	20	20	20	20
Max. radial load, 5 mm from flange	N	30	45	60	60	45	60	60
Gearhead length L1[1]	mm	15.7	20.8	25.5	30.3	20.8	25.5	30.3
Weight	g	14	19	21	23	19	21	23

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

Modular system		Page			Page
DC motor	№ of stages [opt.]		**EC motor**	№ of stages [opt.]	
DCX 12 S	3–4	101	ECX SPEED 13 M	1–2 [3–4]	201–202
DCX 12 L	3–4	102	ECX SPEED 13 L	1–2 [3–4]	205–206
DCX 14 L	1–2 [3–4]	103–104			

[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.