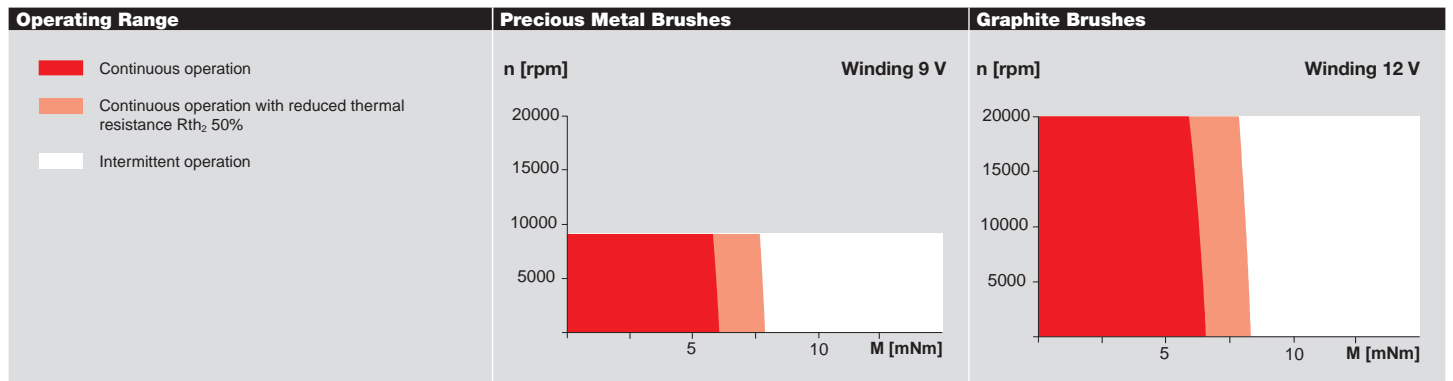


DCX 14 L brushed DC motor Ø14 mm

Configurable



Key Data	Precious Metal Brushes	Graphite Brushes
Typical Speed/torque gradient	rpm/mNm 424	489
Max. nominal torque	mNm 6.34	6.88
Max. speed	rpm 8680	17000
Max. continuous output power/assigned power rating	W 5.3/3	10/6
Max. efficiency	% 78	81
Ambient temperature	°C -30 ... 85	-40 ... 100
Mech. time constant	ms 4.08	4.66
Therm. time constant winding	s 10.3	10.3
Rotor inertia	gcm ² 0.92	0.92
Max. axial load (dynamic)	N Ball bearings: 0.8/Sinterlager: 0.1	Ball bearings: 0.8/Sleeve bearings: 0.1
Max. radial load, 5 mm from flange	N Ball bearings: 10/Sinterlager: 2	Ball bearings: 10/Sleeve bearings: 2
Typical noise level	dBA 44	44
Weight	g 26	26



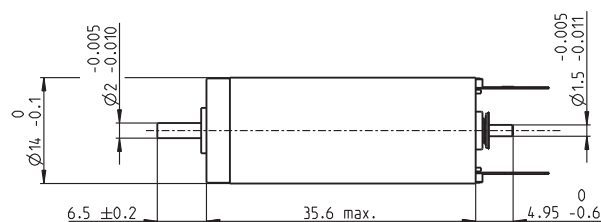
Specifications	Precious Metal Brushes						Graphite Brushes					
	3	6	9	12	18	24	4.5	6	9	12	18	24
Nominal voltage	V						V					
No load speed	rpm 7720	7730	7740	7740	7720	7730	11400	10200	11600	10300	11600	10300
No load current	mA 76.3	38.2	25.5	19.1	12.70	9.55	74	47.8	37.4	24.0	18.7	12.0
Nominal current	A 1.20	0.88	0.602	0.45	0.28	0.22	1.54	1.19	0.914	0.645	0.489	0.31
Torque constant	mNm/A 3.65	7.3	10.9	14.6	21.9	29.2	3.65	5.47	7.3	10.9	14.6	21.9
Speed constant	rpm/V 2620	1310	872	654	436	327	2620	1740	1310	872	654	436
Terminal resistance	Ω 0.664	2.33	5.02	8.9	22.5	37.1	0.921	1.57	2.630	5.36	9.26	23.00
Terminal inductance	mH 0.025	0.101	0.227	0.403	0.91	1.61	0.025	0.057	0.101	0.227	0.403	0.908

Configuration	dcx.maxonmotor.com
Bearing	Ball bearings preloaded/sleeve bearings
Commutation	Precious metal brushes with CLL/graphite brushes
Flange front/back	Standard flange/configurable flange/no flange
Shaft front/back	Length/diameter/flat face
Electric connection	Terminals or cable/alignment of connection/cable length/connector type

maxon Modular System	Page	Dimensions Standard Configuration	M 1:1
maxon gear	Number of stages		
GPX 14	1-2		25
GPX 16	3		26-27

maxon sensor	
ENX 10 QUAD	38
ENX 10 EASY	38

maxon motor control	
ESCON 36/2 DC	44
EPOS2 24/2 (DC/EC)	44
EPOS2 Module 36/2	44
EPOS2 P 24/5	44
EPOS3 70/10 EtherCAT	44
MAXPOS 50/5	44



Shortest configuration possible: 34 mm