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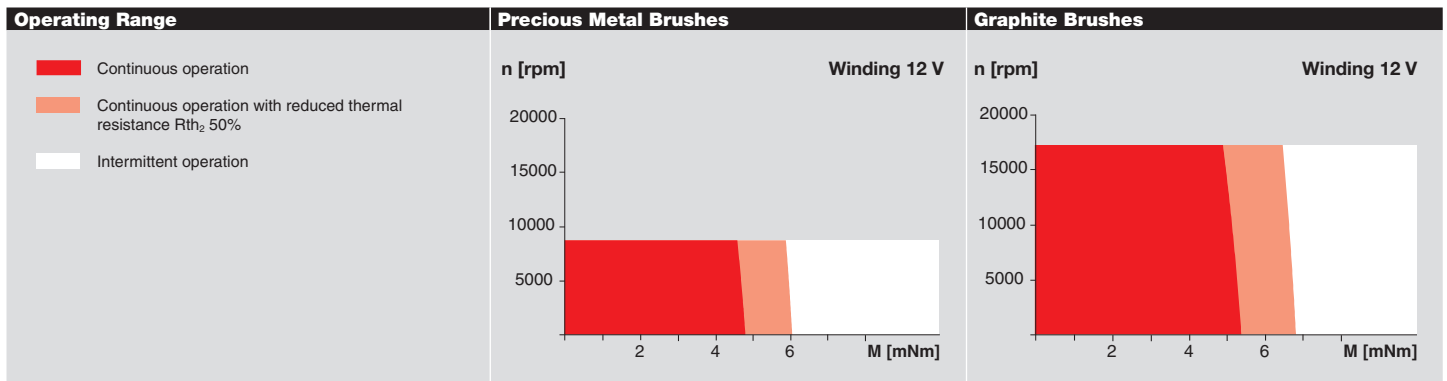
**NEW**

# DCX 16 S brushed DC motor Ø16 mm

Configurable



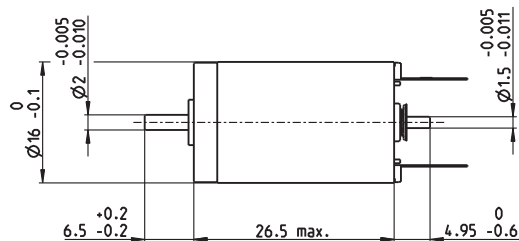
Key Data		Precious Metal Brushes	Graphite Brushes
Typical Speed/torque gradient	rpm/mNm	584	587
Max. nominal torque	mNm	5.3	5.72
Max. permissible speed	rpm	8680	17000
Max. continuous output power/assigned power rating	W	4.5/2.5	9.5/4.5
Max. efficiency	%	77	80
Ambient temperature	°C	-30 ... 85	-40 ... 100
Mech. time constant	ms	6.11	6.13
Therm. time constant winding	s	9.6	9.6
Rotor inertia	gcm <sup>2</sup>	1.00	1.00
Max. axial loading (dynamic)	N	Ball bearings: 0.8/Sinterlager: 0.1	Ball bearings: 0.8/Sleeve bearings: 0.1
Max. radial loading, 5 mm from flange	N	Ball bearings: 10/Sinterlager: 2.5	Ball bearings: 10/Sleeve bearings: 2.5
Typical noise level	dBA	40	38
Weight	g	23	23



Specifications	Precious Metal Brushes							Graphite Brushes					
	3	4.5	6	9	12	24	6	9	12	18	24	48	
Nominal voltage	V												
No load speed	rpm	6320	6320	6610	6320	6260	6250	12700	12700	13300	12700	12700	12600
No load current	mA	44.6	29.7	23.4	14.9	11.00	5.51	64	42.6	33.9	21.3	16.0	7.9
Nominal current	A	1.20	0.784	0.65	0.389	0.299	0.144	1.30	0.851	0.705	0.423	0.327	0.157
Torque constant	mNm/A	4.45	6.67	8.53	13.3	18	36	4.45	6.67	8.53	13.3	17.8	36.0
Speed constant	rpm/V	2150	1430	1120	715	531	265	2150	1430	1120	715	536	265
Terminal resistance	Ω	1.20	2.80	4.06	11.4	19.2	83.1	1.22	2.82	4.08	11.4	19.1	83.2
Terminal inductance	mH	0.036	0.080	0.131	0.320	0.581	2.32	0.036	0.080	0.131	0.320	0.569	2.32

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
<b>maxon gear</b>			
GPX 16	67		
<b>maxon sensor</b>			
ENX 10 QUAD	74		
ENX 10 EASY	74		
ENX 16 EASY	75		
<b>maxon motor control</b>			
ESCON 36/2 DC	342		
EPOS2 24/2 (DC/EC)	350		
EPOS2 Module 36/2	350		
EPOS2 P 24/5	354		
EPOS3 70/10 EtherCAT	357		
MAXPOS 50/5	360		



Shortest configuration possible: 24.9 mm