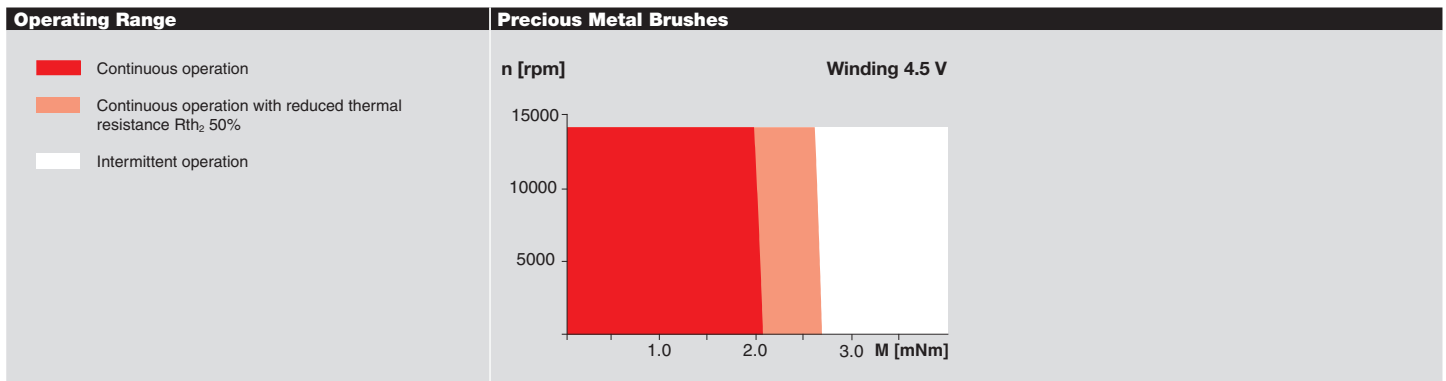


DCX 10 L brushed DC motor Ø10 mm

Configurable



Key Data		Precious Metal Brushes
Typical Speed/torque gradient	rpm/mNm	2555
Max. nominal torque	mNm	2.21
Max. permissible speed	rpm	14300
Max. continuous output power/assigned power rating	W	3/1.5
Max. efficiency	%	76
Ambient temperature	°C	-30 ... +85
Mech. time constant	ms	3.63
Therm. time constant winding	s	3.9
Rotor inertia	gcm ²	0.14
Max. axial loading (dynamic)	N	Ball bearings: 0.5/Sleeve bearings: 0.1
Max. radial loading, 5 mm from flange	N	Ball bearings: 1.5/Sleeve bearings: 0.8
Typical noise level	dBA	37
Weight	g	11



Specifications	Precious Metal Brushes							
	1.5	3	4.5	6	9	12		
Nominal voltage	V	1.5	3	4.5	6	9	12	
No load speed	rpm	11500	12100	11900	12100	11900	11200	
No load current	mA	75.0	40.4	26.3	20.2	13.1	9.04	
Nominal current	A	0.924	0.916	0.646	0.436	0.304	0.211	
Torque constant	mNm/A	1.22	2.32	3.54	4.63	7.07	10.0	
Speed constant	rpm/V	7830	4120	2700	2060	1350	955	
Terminal resistance	Ω	0.385	1.47	2.93	6.43	13.2	27.4	
Terminal inductance	mH	0.006	0.021	0.050	0.086	0.199	0.399	

Configuration	dcx.maxonmotor.com
Bearing	Sleeve bearings/ball bearings preloaded
Commutation	Precious metal brushes with or without CLL
Flange front/back	Standard flange/Flange with thread holes/no flange
Shaft front/back	Length
Electric connection	Terminals or cable/cable length/connector type

maxon Modular System	Page	Dimensions Standard Configuration	M 1.5:1
maxon gear			
GPX 10	66		
maxon sensor			
ENX 10 EASY	74		
ENX 10 QUAD	74		
maxon motor control			
ESCON 36/2 DC	342		
EPOS2 24/2 (DC/EC)	350		
EPOS2 Module 36/2	350		
EPOS2 P 24/5	354		
Shortest configuration possible: 24.4 mm			