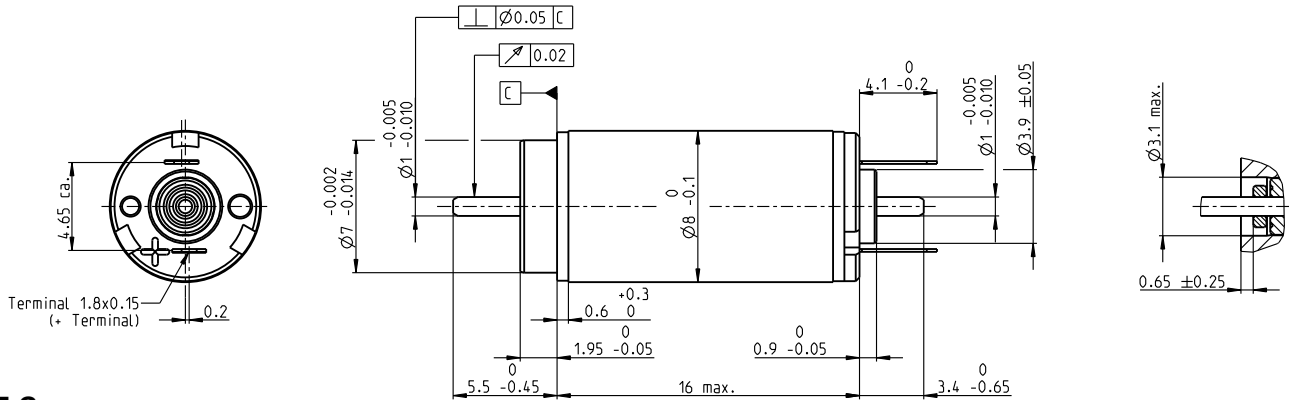


DCX 8 M $\varnothing 8$ mm, precious metal brushes, DC motor

Key Data: 0.5/1.0 W, 0.65 mNm, 17300 rpm

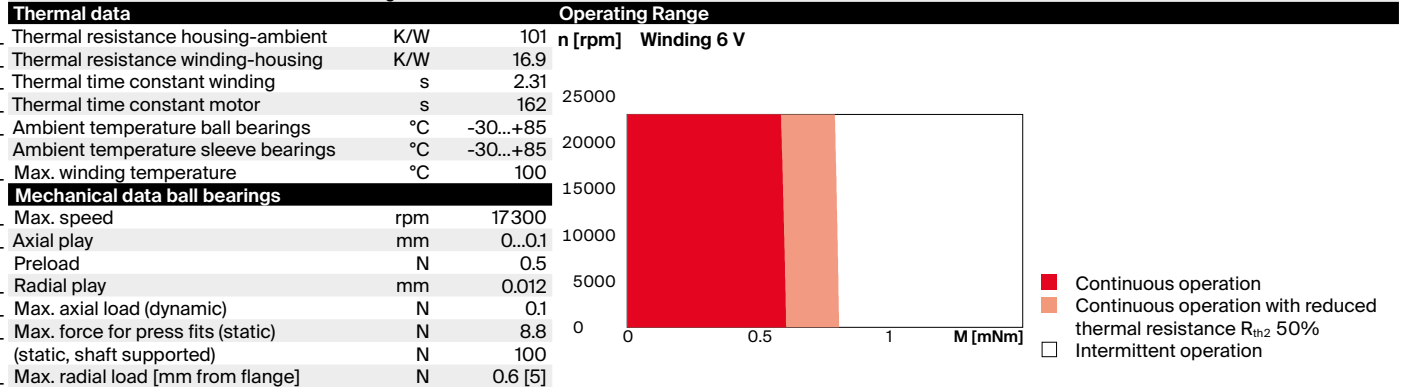


DCX



M 5:2

Motor Data								
1_	Nominal voltage	V	2.4	4.2	6	7.2	9	12
2_	No load speed	rpm	11500	11700	11000	11900	11900	12900
3_	No load current	mA	11.9	6.93	4.51	4.12	3.3	2.74
4_	Nominal speed	rpm	4780	4950	4190	4820	5190	5800
5_	Nominal torque	mNm	0.653	0.649	0.641	0.62	0.652	0.614
6_	Nominal current (max. continuous current)	A	0.345	0.199	0.13	0.113	0.0949	0.0728
7_	Stall torque	mNm	1.13	1.14	1.05	1.06	1.17	1.13
8_	Stall current	A	0.581	0.34	0.207	0.187	0.166	0.13
9_	Max. efficiency	%	74	74	73	73	74	74
10_	Terminal resistance	Ω	4.13	12	29	38.5	54.3	92.2
11_	Terminal inductance	mH	0.014	0.0411	0.0941	0.117	0.183	0.276
12_	Torque constant	mNm/A	1.95	3.360	5.08	5.67	7.07	8.71
13_	Speed constant	rpm/V	4900	2850	1880	1680	1350	1100
14_	Speed/torque gradient	rpm/mNm	10400	10500	10700	11400	10400	11600
15_	Mechanical time constant	ms	4.17	4.15	4.18	4.24	4.15	4.28
16_	Rotor inertia	gcm ²	0.038	0.0379	0.0372	0.035	0.038	0.035



Mechanical data ball bearings			Modular System			Details on catalog page 36
23_	Max. speed	rpm	17300	Gear	Stages [opt.]	Sensor
24_	Axial play	mm	0.02...0.1			
	Preload	N	0			
25_	Radial play	mm	0.012			
26_	Max. axial load (dynamic)	N	0.1			
27_	Max. force for press fits (static)	N	8.8			
	(static, shaft supported)	N	100			
28_	Max. radial load [mm from flange]	N	0.6 [5]			

Mechanical data sleeve bearings			Other specifications				
23_	Max. speed	rpm	17300	29_	Number of pole pairs	1	
24_	Axial play	mm	0.02...0.1	30_	Number of commutator segments	5	
	Preload	N	0	31_	Weight of motor	g	4.4
25_	Radial play	mm	0.012	32_	Typical noise level	dBA	-
26_	Max. axial load (dynamic)	N	0.1				
27_	Max. force for press fits (static)	N	10				
	(static, shaft supported)	N	100				
28_	Max. radial load [mm from flange]	N	0.4 [5]				

Configuration

Bearing: Sleeve bearings/ball bearings preloaded
 Commutation: Precious metal brushes with or without CLL
 Flange front/back: Standard flange
 Shaft front/back: Length
 Electric connection: Terminals or cables (encoder always with Flex)