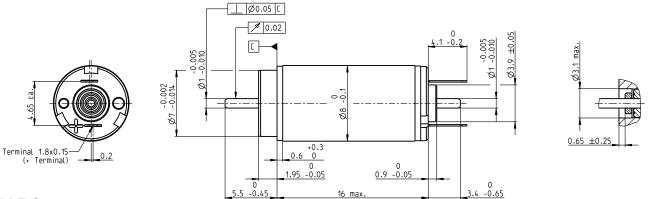
DCX 8 M Precious Metal Brushes DC motor Ø8 mm



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



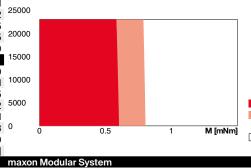


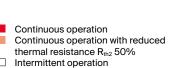
171 0.2

Motor Data								
 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 (max. continuou	us torque) mNm	0.653	0.649	0.641	0.62	0.652	0.614	
6_ Nominal current (max. continuo	us 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	Α	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	
Thermal data		0	perating Rang	e				

n [rpm] Winding 6 V

IO_ KOLOI IIIEILIA	gciii	0.030
Thermal data		
17_ Thermal resistance housing-ambient	K/W	101
18_ Thermal resistance winding-housing	K/W	16.9
19_ Thermal time constant winding	S	2.31
20_ Thermal time constant motor	S	162
21_ Ambient temperature ball bearings	°C	-30+85
Ambient temperature sleeve bearings	°C	-30+85
22_ Max. winding temperature	°C	100
Mechanical data ball bearings		
23_ Max. speed	rpm	17300
24_ Axial play	mm	00.1
Preload	N	0.5
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		
23_ Max. speed	rpm	17300
24_ Axial play	mm	0.020.1
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	10
(static, shaft supported)	N	100
28_ Max. radial load [mm from flange]	N	0.4 [5]
Other specifications		
29_ Number of pole pairs		1
30_ Number of commutator segments		5
31_ Weight of motor	g	4.4
32_ Typical noise level	dBA	_

maxon gearStages [opt.]maxon sensor322_GPX 8 A1-5430_ENX 8 MAG

maxon motor control 486_ESCON Module 24/2 486_ESCON 36/2 DC 498_EPOS4 Mod./Comp. 24/1.5

Details on catalog page 32

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)