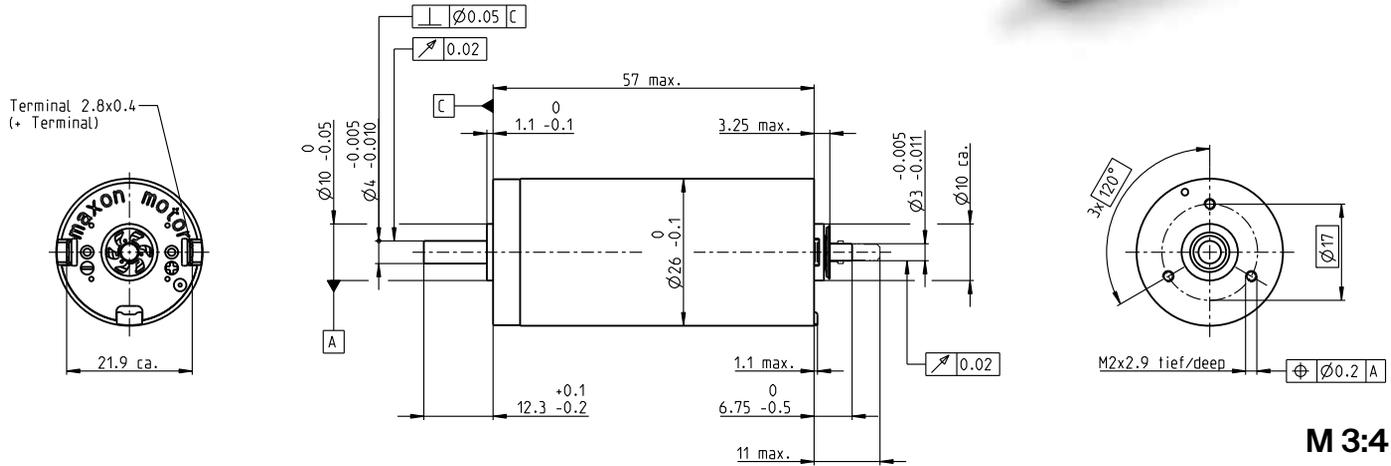


# DCX 26 L Ø26 mm, precious metal brushes, DC motor

Key Data: 18/29 W, 52.3 mNm, 5900 rpm

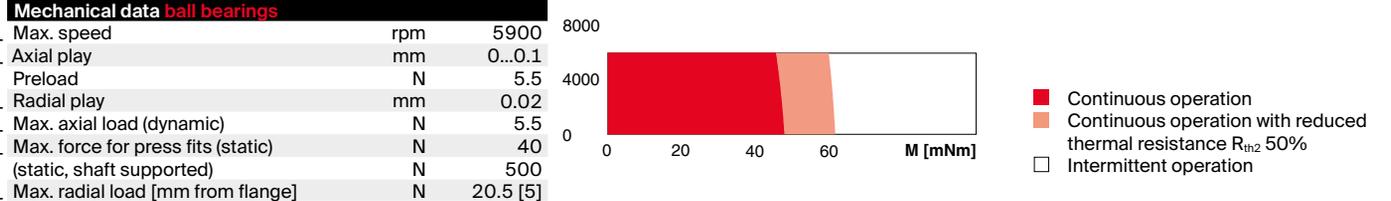


DCX



Motor Data								
1_	Nominal voltage	V	9	12	18	24	36	48
2_	No load speed	rpm	5530	5330	5530	5330	5430	5320
3_	No load current	mA	80.5	56.8	40.2	28.4	19.5	14.2
4_	Nominal speed	rpm	5060	4690	4770	4600	4680	4570
5_	Nominal torque (max. continuous torque)	mNm	32.9	46.1	49.8	52.3	50.8	50.3
6_	Nominal current (max. continuous current)	A	2.2	2.2	1.64	1.25	0.822	0.599
7_	Stall torque	mNm	384	384	362	384	370	355
8_	Stall current	A	24.8	17.9	11.7	8.95	5.86	4.14
9_	Max. efficiency	%	89	89	89	89	89	89
10_	Terminal resistance	Ω	0.363	0.671	1.54	2.68	6.15	11.6
11_	Terminal inductance	mH	0.067	0.129	0.268	0.514	1.11	2.06
12_	Torque constant	mNm/A	15.5	21.4	31	42.9	63.2	85.8
13_	Speed constant	rpm/V	616	445	308	223	151	111
14_	Speed/torque gradient	rpm/mNm	14.4	13.9	15.3	13.9	14.7	15
15_	Mechanical time constant	ms	3.23	3.13	3.11	3.09	3.1	3.11
16_	Rotor inertia	gcm <sup>2</sup>	21.3	21.4	19.4	21.2	20.1	19.7

Thermal data			Operating Range	
17_	Thermal resistance housing-ambient	K/W	10.2	n [rpm] Winding 18 V
18_	Thermal resistance winding-housing	K/W	3.01	
19_	Thermal time constant winding	s	24	
20_	Thermal time constant motor	s	620	16000
21_	Ambient temperature ball bearings	°C	-40...+85	12000
21_	Ambient temperature sleeve bearings	°C	-30...+85	
22_	Max. winding temperature	°C	100	



Mechanical data sleeve bearings		maxon Modular System		Details on catalog page 34	
23_	Max. speed	rpm	5900	maxon gear	Stages [opt.]
24_	Axial play	mm	0..0.2	354_GPX 26 A/C	1-2 [3]
24_	Preload	N	0	355_GPX 26 LN/LZ	1-2 [3]
25_	Radial play	mm	0.02	356_GPX 26 HP	2-3 [4]
26_	Max. axial load (dynamic)	N	0.1	357_GPX 32 A/C	3
27_	Max. force for press fits (static)	N	80	358_GPX 32 LN/LZ	3
27_	(static, shaft supported)	N	500	359_GPX 32 HP	4
28_	Max. radial load [mm from flange]	N	5.5 [5]	maxon sensor	maxon motor control
29_	Number of pole pairs		1	447_ENX 10 EASY	500_ESCON 36/2 DC
30_	Number of commutator segments		11	447_ENX 10 QUAD	501_ESCON Module 50/5
31_	Weight of motor	g	170	448_ENX 10 EASY XT	503_ESCON 50/5
32_	Typical noise level	dBA	48	450_ENX 16 EASY	509_EPOS4 Micro 24/5
				451_ENX 16 EASY XT	510_EPOS4 Mod./Comp. 24/1.5
				452_ENX 16 EASY Abs.	510_EPOS4 Mod./Comp. 50/5
				453_ENX 16 EASY Abs. XT	511_EPOS4 Comp. 24/5 3-axes
				458_ENX 16 RIO	515_EPOS4 50/5
				485_ENC AEDL 5810	516_EPOS4 Disk 60/8
				486_ENC 30 HEDS 5540	520_EPOS2 P 24/5
				492_ENC 30 HEDL 5540	

**Other specifications**

29\_ Number of pole pairs 1

30\_ Number of commutator segments 11

31\_ Weight of motor g 170

32\_ Typical noise level dBA 48

**Configuration**

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