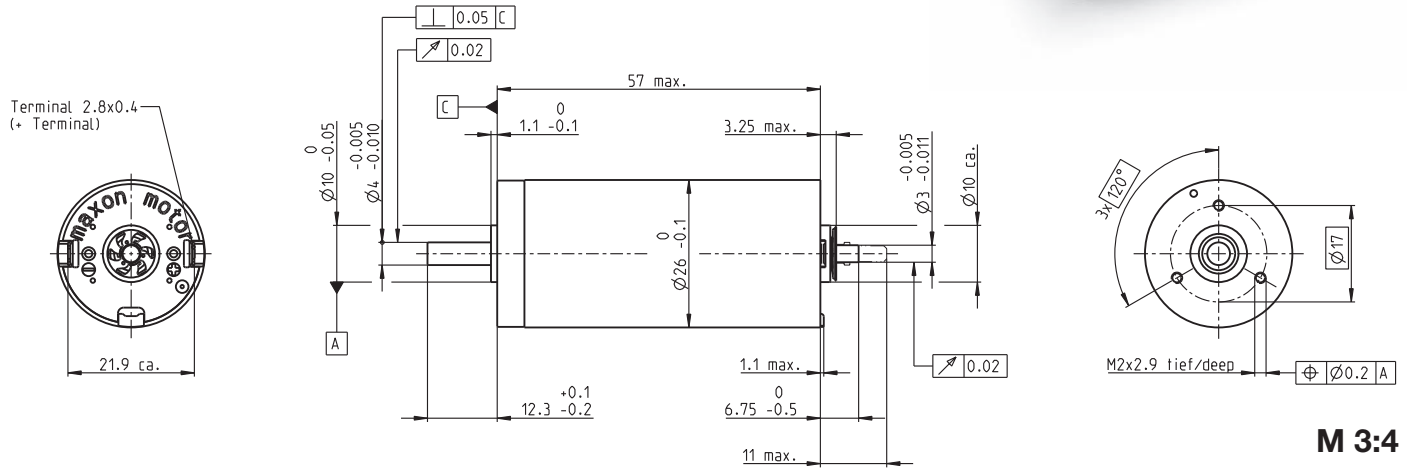


DCX 26 L Precious Metal Brushes

DC motor Ø26 mm

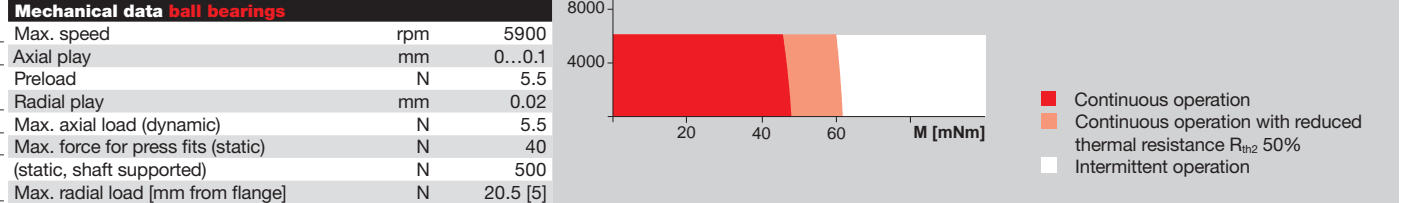
18/29 W 52.3 mNm 5900 rpm



M 3:4

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	2.20	2.20	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	31.0	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	15.0
15_	Mechanical time constant	ms	3.23	3.13	3.11	3.09	3.10	3.11
16_	Rotor inertia	gcm ²	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	
21_	Ambient temperature ball bearings	°C	-40...+85	
21_	Ambient temperature sleeve bearings	°C	-30...+85	
22_	Max. winding temperature	°C	100	



Mechanical data ball bearings			maxon Modular System				
23_	Max. speed	rpm	5900	maxon gear	Stages	maxon sensor	maxon motor control
24_	Axial play	mm	0...0.1	134_GPX 26 A/C	1-2	146_ENX 10 QUAD	416_ESCON 36/2 DC
	Preload	N	5.5	135_GPX 26 LN/LZ	1-2	147_ENX 16 EASY	417_ESCON Module 50/5
25_	Radial play	mm	0.02	136_GPX 26 HP	2-3	148_ENX 16 EASY Abs.	418_ESCON 50/5
26_	Max. axial load (dynamic)	N	5.5	137_GPX 32 A/C	3	404_ENC 30 HEDL 5540	424_EPOS2 24/2 (DC/EC)
27_	Max. force for press fits (static)	N	40	138_GPX 32 LN/LZ	3	407_ENC AEDL 5810	424_EPOS2 Module 36/2
	(static, shaft supported)	N	500	139_GPX 32 HP	4		425_EPOS2 24/5
28_	Max. radial load [mm from flange]	N	20.5 [5]				425_EPOS2 50/5
							428_EPOS2 P 24/5
							435_MAXPOS 50/5

Mechanical data sleeve bearings			Other specifications			
23_	Max. speed	rpm	5900	29_	Number of pole pairs	1
24_	Axial play	mm	0...0.2	30_	Number of commutator segments	11
	Preload	N	0	31_	Weight of motor	g 170
25_	Radial play	mm	0.02	32_	Typical noise level	dBA 48
26_	Max. axial load (dynamic)	N	0.1			
27_	Max. force for press fits (static)	N	80			
	(static, shaft supported)	N	500			
28_	Max. radial load [mm from flange]	N	5.5 [5]			

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