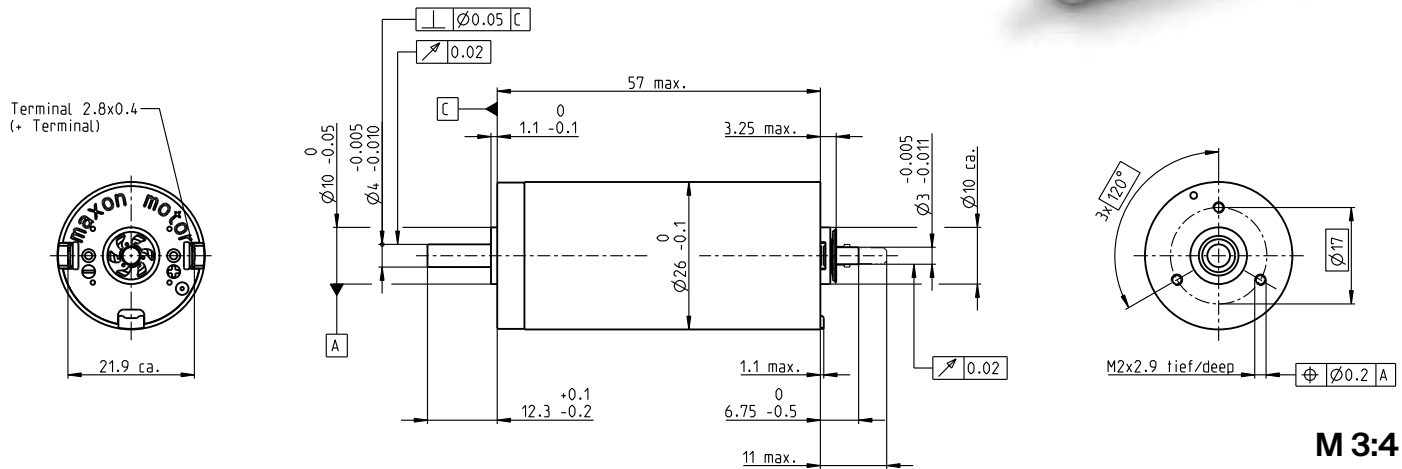


DCX 26 L Ø26 mm, precious metal brushes, DC motor

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



DCX



M 3:4

Motor Data

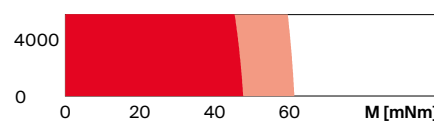
1_	Nominal voltage	V	9	12	18	24	36	48
2_	No load speed	rpm	5530	5330	5530	5330	5430	5320
3_	No load current	mA	80.5	56.8	40.2	28.4	19.5	14.2
4_	Nominal speed	rpm	5060	4690	4770	4600	4680	4570
5_	Nominal torque	mNm	32.9	46.1	49.8	52.3	50.8	50.3
6_	Nominal current (max. continuous current)	A	2.2	2.2	1.64	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 ²	21.3	21.4	19.4	21.2	20.1	19.7

Thermal data

17_	Thermal resistance housing-ambient	K/W	10.2	Operating Range				
18_	Thermal resistance winding-housing	K/W	3.01	n [rpm] Winding 18 V				
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

23_	Max. speed	rpm	5900	8000				
24_	Axial play	mm	0..0.1	4000				
25_	Radial play	mm	0.02	0				
26_	Max. axial load (dynamic)	N	5.5	0				
27_	Max. force for press fits (static)	N	40	0				
27_	(static, shaft supported)	N	500	0				
28_	Max. radial load [mm from flange]	N	20.5 [5]	0				



■ Continuous operation
 ■ Continuous operation with reduced thermal resistance R_{th2} 50%
 □ Intermittent operation

Mechanical data sleeve bearings

23_	Max. speed	rpm	5900	Modular System		Details on catalog page 36	
24_	Axial play	mm	0..0.2	Gear	Stages [opt.]	Sensor	Motor Control
24_	Preload	N	0	380_GPX 26 A/C	1-2 [3]	473_ENX 10 EASY	532_ESCON 36/2 DC
25_	Radial play	mm	0.02	381_GPX 26 LN/LZ	1-2 [3]	473_ENX 10 QUAD	533_ESCON Module 50/5
26_	Max. axial load (dynamic)	N	0.1	382_GPX 26 HP	2-3 [4]	474_ENX 10 EASY XT	535_ESCON 50/5
27_	Max. force for press fits (static)	N	80	383_GPX 32 A/C	3	475_ENX 16 EASY	541_EPOS4 Micro 24/5
27_	(static, shaft supported)	N	500	384_GPX 32 LN/LZ	3	476_ENX 16 EASY XT	542_EPOS4 Module 24/1.5
28_	Max. radial load [mm from flange]	N	5.5 [5]	385_GPX 32 HP	4	477_ENX 16 EASY Abs.	542_EPOS4 Module 50/5
						478_ENX 16 EASY Abs. XT	543_EPOS4 Compact 24/5 3-axes
						486_ENX 16 RIO	544_EPOS4 Compact 24/1.5
						517_ENC AEDL 5810	545_EPOS4 Compact 50/5
						518_ENC 30 HEDS 5540	547_EPOS4 50/5
						524_ENC 30 HEDL 5540	548_EPOS4 Disk 60/8

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