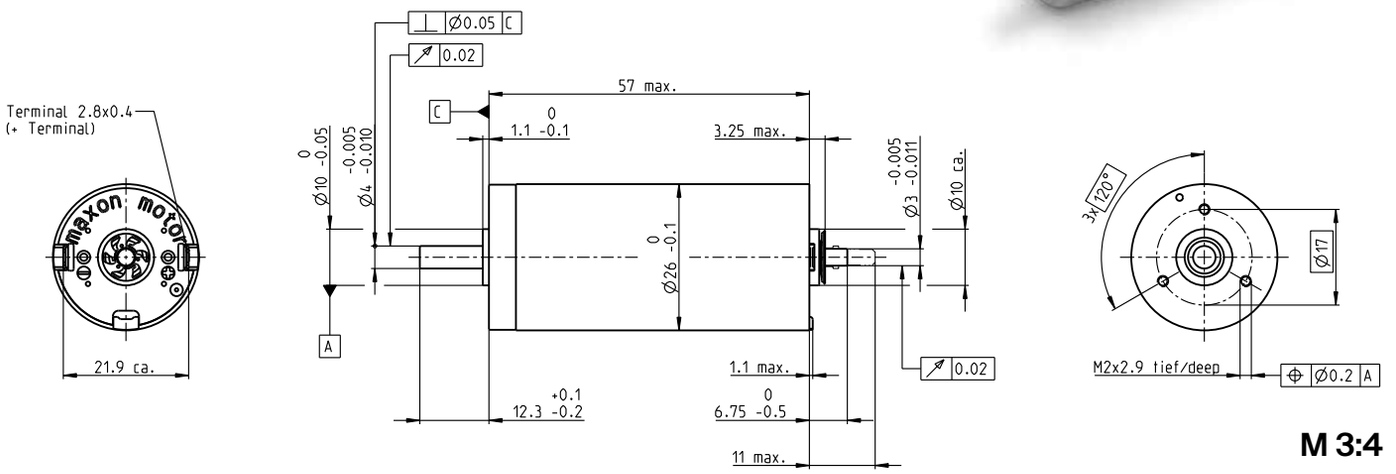
DCX 26 L ∅26 mm, precious metal brushes, DC motor

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





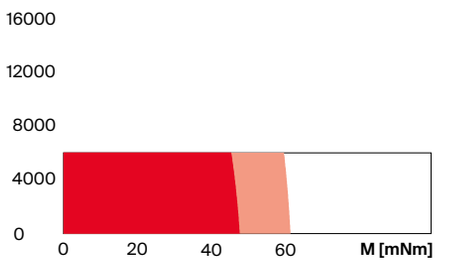
M 3:4

	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	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	gcm²	21.3	21.4	19.4	21.2	20.1	19.7

	Thermal data		
17_	Thermal resistance housing-ambient	K/W	10.2
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
	Ambient temperature sleeve bearings	°C	-30...+85
22_	Max. winding temperature	°C	100
	Mechanical data ball bearings		
23_	Max. speed	rpm	5900
24_	Axial play	mm	0...0.1
	Preload	N	5.5
25_	Radial play	mm	0.02
26_	Max. axial load (dynamic)	N	5.5
27_	Max. force for press fits (static)	N	40
	(shaft supported)	N	500
28_	Max. radial load [mm from flange]	N	20.5 [5]
	Mechanical data sleeve bearings		
23_	Max. speed	rpm	5900
24_	Axial play	mm	0...0.2
	Preload	N	0
25_	Radial play	mm	0.02
26_	Max. axial load (dynamic)	N	0.1
27_	Max. force for press fits (static)	N	80
	(shaft supported)	N	500
28_	Max. radial load [mm from flange]	N	5.5 [5]
	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

Operating range

n [rpm] Winding 18 V



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

Modular system Details on catalog page 40

Gear	Stages [opt.]
396_GPX 26 A/C	1–2 [3]
397_GPX 26 LN/LZ	1–2 [3]
398_GPX 26 HP	2–3 [4]
399_GPX 32 A/C	3
400_GPX 32 LN/LZ	3
401_GPX 32 HP	4

Sensor
- 507_ENX 10 EASY/QUAD
- 508_ENX 10 EASY XT
- 509_ENX 16 EASY
- 510_ENX 16 EASY XT
- 511_ENX 16 EASY Abs.
- 512_ENX 16 EASY Abs. XT
- 518_ENX 22 EMT
- 519_ENX 16 RIO
- 535_ENC 30 HEDS 5540
- 539_ENC 30 HEDL 5540

Motor Control
- 550_ESCON 36/2 DC
- 551_ESCON Module 50/5
- 553_ESCON 50/5
- 557_ESCON2 Nano 24/2
- 557_ESCON2 Micro 60/5
- 563_EPOS4 Micro 24/5
- 564_EPOS4 Module 24/1.5
- 564_EPOS4 Module 50/5
- 565_EPOS4 Compact 24/5 3-axes
- 566_EPOS4 Compact 24/1.5
- 567_EPOS4 Compact 50/5
- 569_EPOS4 50/5
- 570_EPOS4 Disk 60/8

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

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