

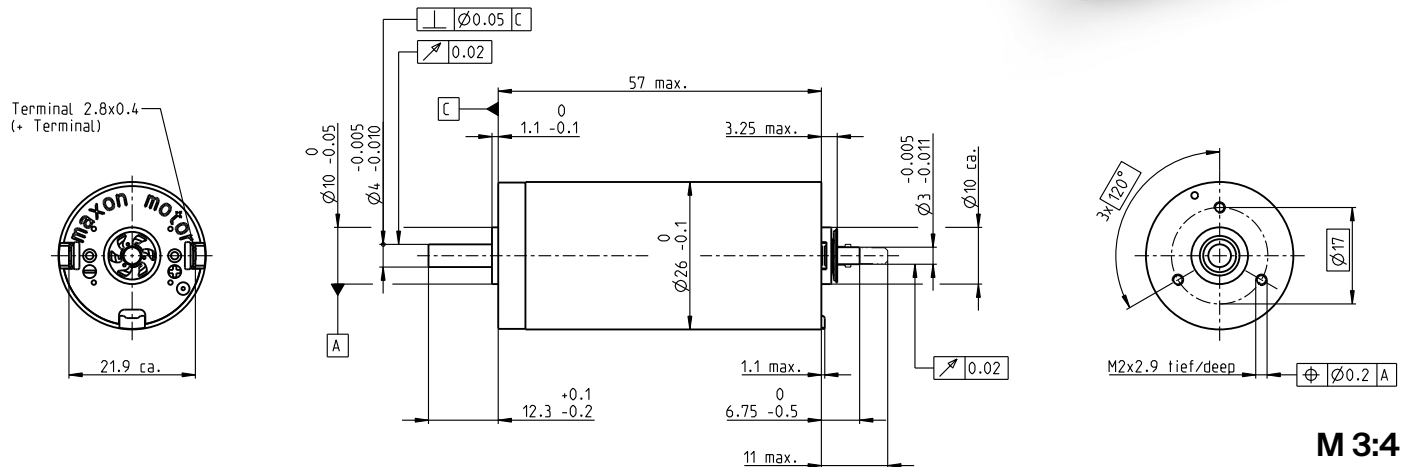
# DCX 26 L Precious Metal Brushes

## DC motor Ø26 mm

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 (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

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

### Mechanical data sleeve bearings

23. Max. speed	rpm	5900	maxon Modular System				Details on catalog page 32
24. Axial play	mm	0...0.2	maxon gear				maxon motor control
Preload	N	0	344_GPX 26 A/C	1-2 [3]	433_ENX 10 EASY	486_ESCON 36/2 DC	
25. Radial play	mm	0.02	345_GPX 26 LN/LZ	1-2 [3]	433_ENX 10 QUAD	487_ESCON Module 50/5	
26. Max. axial load (dynamic)	N	0.1	346_GPX 26 HP	2-3 [4]	434_ENX 10 EASY XT	489_ESCON 50/5	
27. Max. force for press fits (static)	N	80	347_GPX 32 A/C	3	436_ENX 16 EASY	496_EPOS4 Mod./Comp. 24/1.5	
(static, shaft supported)	N	500	348_GPX 32 LN/LZ	3	437_ENX 16 EASY XT	496_EPOS4 Mod./Comp. 50/5	
28. Max. radial load [mm from flange]	N	5.5 [5]	349_GPX 32 HP	4	438_ENX 16 EASY Abs.	501_EPOS4 50/5	
					439_ENX 16 EASY Abs. XT	504_EPOS2 P 24/5	
					443_ENX 16 RIO		
					470_ENC AEDL 5810		
					471_ENC 30 HEDS 5540		
					477_ENC 30 HEDL 5540		

### Other specifications

29. Number of pole pairs		1	Configuration				
30. Number of commutator segments		11	Bearing: Ball bearings preloaded/sleeve bearings				
31. Weight of motor	g	170	Commutation: Precious metal brushes with CLL/graphite brushes				
32. Typical noise level	dBA	48	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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