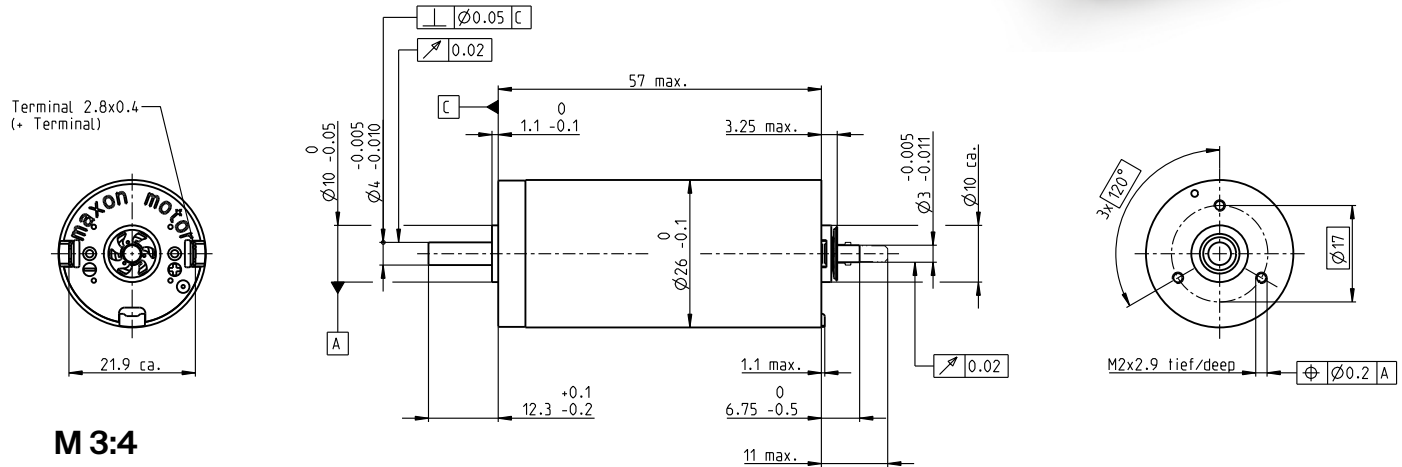


DCX 26 L Graphite Brushes

DC motor Ø26 mm

DCX

Key Data: 40/74 W, 59.8 mNm, 14 400 rpm



M 3:4

Motor Data							
1. Nominal voltage	V	12	18	24	36	48	60
2. No load speed	rpm	10600	11100	10700	11100	10700	10900
3. No load current	mA	131	93	65.7	46.5	32.9	27.3
4. Nominal speed	rpm	9460	10000	9690	10000	9730	10000
5. Nominal torque (max. continuous torque)	mNm	46.9	54.3	57.8	54	59.1	59.8
6. Nominal current (max. continuous current)	A	4.5	3.59	2.76	1.79	1.41	1.17
7. Stall torque	mNm	532	653	695	639	697	750
8. Stall current	A	49.7	42.2	32.4	20.6	16.2	14.3
9. Max. efficiency	%	88	90	91	90	91	91
10. Terminal resistance	Ω	0.242	0.427	0.74	1.75	2.95	4.19
11. Terminal inductance	mH	0.032	0.067	0.129	0.268	0.514	0.768
12. Torque constant	mNm/A	10.7	15.5	21.4	31	42.9	52.4
13. Speed constant	rpm/V	890	616	445	308	223	182
14. Speed/torque gradient	rpm/mNm	20.1	17	15.4	17.4	15.3	14.6
15. Mechanical time constant	ms	4.5	3.79	3.45	3.53	3.4	3.16
16. Rotor inertia	gcm ²	21.4	21.3	21.4	19.4	21.2	20.7

Thermal data			Operating Range	
Thermal resistance housing-ambient	K/W	10.2	n [rpm]	Winding 18 V
Thermal resistance winding-housing	K/W	3.01		
Thermal time constant winding	s	24		
Thermal time constant motor	s	620	16000	
Ambient temperature ball bearings	°C	-40...+100		
Ambient temperature sleeve bearings	°C	-30...+100	12000	
Max. winding temperature	°C	155		

Mechanical data ball bearings				
23. Max. speed	rpm	14400		
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		
28. Max. radial load [mm from flange]	N	20.5 [5]		

Mechanical data sleeve bearings			maxon Modular System		Details on catalog page 32	
23. Max. speed	rpm	8600	maxon gear	Stages [opt.]	maxon sensor	maxon motor control
24. Axial play	mm	0...0.2	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. 50/5
28. Max. radial load [mm from flange]	N	500	348_GPX 32 LN/LZ	3	437_ENX 16 EASY XT	501_EPOS4 50/5
			349_GPX 32 HP	4	438_ENX 16 EASY Abs.	504_EPOS2 P 24/5
					439_ENX 16 EASY Abs. XT	
					443_ENX 16 RIO	
					470_ENC AEDL 5810	
					471_ENC 30 HEDS 5540	
					477_ENC 30 HEDL 5540	

Other specifications			Configuration	
29. Number of pole pairs		1		
30. Number of commutator segments		11		
31. Weight of motor	g	170		
32. Typical noise level	dBA	44		

Motor specifications may vary for version with sintered bearing (max. winding temperature 125°C).

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