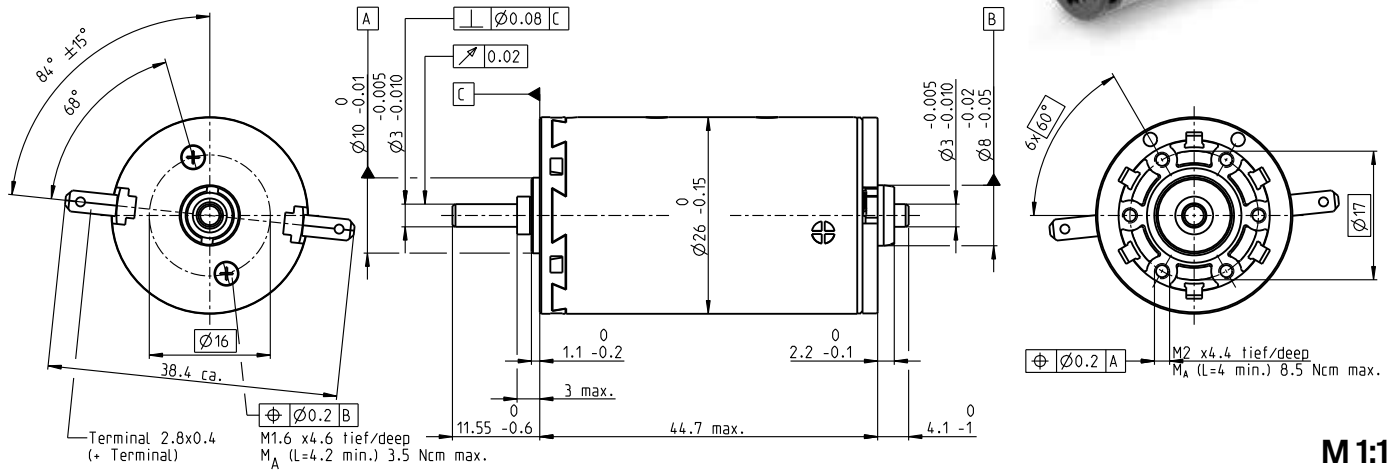


DC-max 26 S Ø26 mm, graphite brushes, DC motor

Key Data: 22/29 W, 32.7 mNm, 11000 rpm

DC-max



M 1:1

Motor Data

1. Nominal voltage	V	24	48
2. No load speed	rpm	8920	8730
3. No load current	mA	53	25.7
4. Nominal speed	rpm	8100	7840
5. Nominal torque (max. continuous torque)	mNm	26.3	28.3
6. Nominal current (max. continuous current)	A	1.08	0.567
7. Stall torque	mNm	287	277
8. Stall current	A	11.2	5.31
9. Max. efficiency	%	87	87
10. Terminal resistance	Ω	2.14	9.04
11. Terminal inductance	mH	0.278	1.16
12. Torque constant	mNm/A	25.6	52.2
13. Speed constant	rpm/V	373	183
14. Speed/torque gradient	rpm/mNm	31.2	31.6
15. Mechanical time constant	ms	4.89	5.04
16. Rotor inertia	gcm ²	14.9	15.2

Thermal data

17. Thermal resistance housing-ambient	K/W	13.2
18. Thermal resistance winding-housing	K/W	3.2
19. Thermal time constant winding	s	17.8
20. Thermal time constant motor	s	350
21. Ambient temperature	°C	-30...85
22. Max. winding temperature	°C	100

Mechanical data ball bearings

23. Max. speed	rpm	11000
24. Axial play	mm	0.1...0.2
Preload	N	0
25. Radial play	mm	0.025
26. Max. axial load (dynamic)	N	5
27. Max. force for press fits (static) (static, shaft supported)	N	75
28. Max. radial load [mm from flange]	N	1200

Mechanical data sleeve bearings

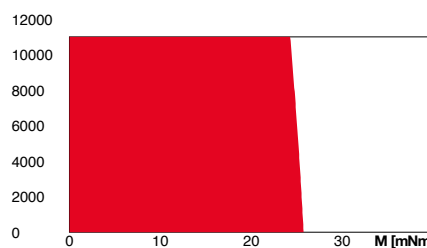
23. Max. speed	rpm	11000
24. Axial play	mm	0.1...0.2
Preload	N	0
25. Radial play	mm	0.012
26. Max. axial load (dynamic)	N	1.7
27. Max. force for press fits (static) (static, shaft supported)	N	80
28. Max. radial load [mm from flange]	N	1200

Other specifications

29. Number of pole pairs		1
30. Number of commutator segments		13
31. Weight of motor	g	120

Operating Range

n [rpm] Winding 24 V



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

maxon Modular System

Details on catalog page 34

23. Max. speed	rpm	11000	maxon gear	Stages [opt.]	maxon sensor	maxon motor control
24. Axial play	mm	0.1...0.2	354_GPX 26 A/C	1-2 [3]	447_ENX 10 QUAD	500_ESCON Module 24/2
Preload	N	0	355_GPX 26 LN/LZ	1-2 [3]	450_ENX 16 EASY	500_ESCON 36/2 DC
25. Radial play	mm	0.012	357_GPX 32 A/C	3	452_ENX 16 EASY Abs.	501_ESCON Module 50/5
26. Max. axial load (dynamic)	N	1.7	358_GPX 32 LN/LZ	3		503_ESCON 50/5
27. Max. force for press fits (static) (static, shaft supported)	N	80				509_EPOS4 Micro 24/5
28. Max. radial load [mm from flange]	N	1200				510_EPOS4 Mod./Comp. 24/1.5
Other specifications						510_EPOS4 Mod./Comp. 50/5
29. Number of pole pairs		1				511_EPOS4 Comp. 24/5 3-axes
30. Number of commutator segments		13				515_EPOS4 50/5
31. Weight of motor	g	120				520_EPOS2 P 24/5

Configuration

Bearing: Sleeve bearings/ball bearings
Commutation: Precious metal brushes with CLL/Graphite Brushes
Shaft front/back: Length
Electric connection: Terminals/cable

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