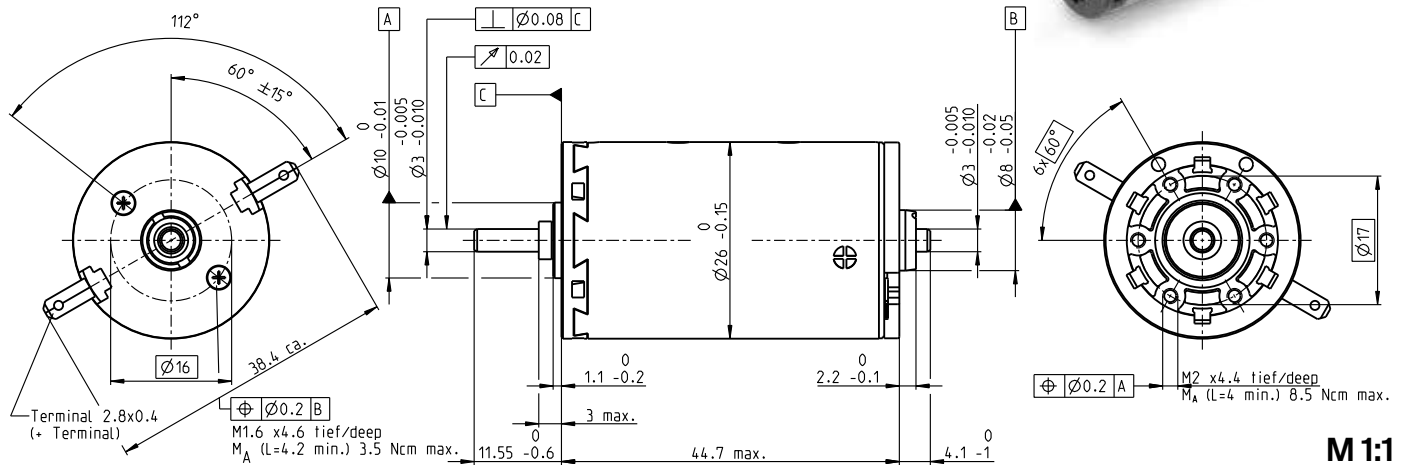


DC-max 26 S Ø26 mm, precious metal brushes, DC motor

Key Data: 9/12 W, 28.8 mNm, 6700 rpm



DC-max



M 1:1

Motor Data

1. Nominal voltage	V	12	24
2. No load speed	rpm	4460	4370
3. No load current	mA	27.1	13.2
4. Nominal speed	rpm	3790	3450
5. Nominal torque (max. continuous torque)	mNm	20.8	28.8
6. Nominal current (max. continuous current)	A	0.84	0.564
7. Stall torque	mNm	140	138
8. Stall current	A	5.49	2.64
9. Max. efficiency	%	87	87
10. Terminal resistance	Ω	2.19	9.08
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	31.9	31.8
15. Mechanical time constant	ms	4.99	5.06
16. Rotor inertia	gcm ²	14.9	15.2

Thermal data

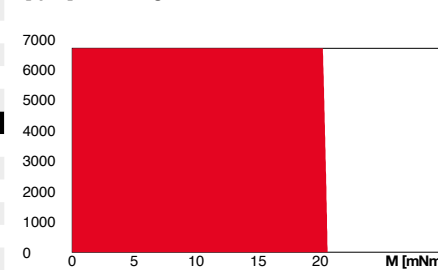
17. Thermal resistance housing-ambient	K/W	13.2
18. Thermal resistance winding-housing	K/W	3.2
19. Thermal time constant winding	s	17.8
20. Thermal time constant motor	s	350
21. Ambient temperature	°C	-30...65
22. Max. winding temperature	°C	85

Mechanical data ball bearings

23. Max. speed	rpm	6700
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

Operating Range

n [rpm] Winding 12 V



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

Mechanical data sleeve bearings

23. Max. speed	rpm	6700
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

maxon Modular System

maxon gear	Stages [opt.]
354_GPX 26 A/C	1-2 [3]
355_GPX 26 LN/LZ	1-2 [3]
357_GPX 32 A/C	3
358_GPX 32 LN/LZ	3

maxon sensor
447_ENX 10 QUAD
450_ENX 16 EASY
452_ENX 16 EASY Abs.

Details on catalog page 34

maxon motor control
500_ESCON Module 24/2
500_ESCON 36/2 DC
501_ESCON Module 50/5
503_ESCON 50/5
509_EPOS4 Micro 24/5
510_EPOS4 Mod./Comp. 24/1.5
510_EPOS4 Mod./Comp. 50/5
511_EPOS4 Comp. 24/5 3-axes
515_EPOS4 50/5
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