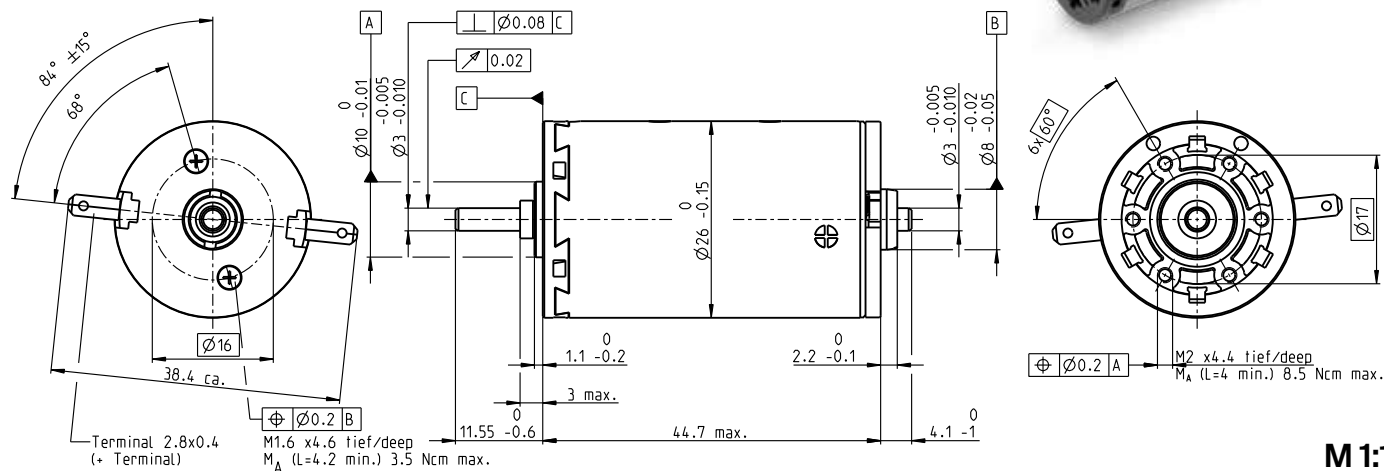


DC-max 26 S Ø26 mm, graphite brushes, DC motor

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	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	178
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)	N	75
(static, shaft supported)	N	1200
28. Max. radial load [mm from flange]	N	20 [5]

Mechanical data sleeve bearings

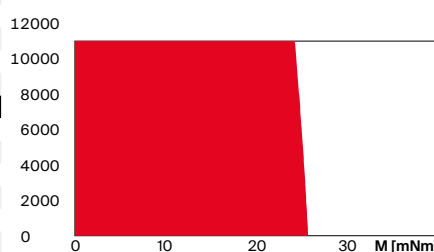
23. Max. speed	rpm	11000
24. Axial play	mm	0.1...0.2
Preload	N	0
25. Radial play	mm	0.012
26. Max. axial load (dynamic)	N	1.7
27. Max. force for press fits (static)	N	80
(static, shaft supported)	N	1200
28. Max. radial load [mm from flange]	N	5.5 [5]

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

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)	N	80
(static, shaft supported)	N	1200
28. Max. radial load [mm from flange]	N	5.5 [5]

Other specifications

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

Modular System

Gear	Stages [opt.]	Sensor
380_GPX 26 A/C	1-2 [3]	473_ENX 10 QUAD
381_GPX 26 LN/LZ	1-2 [3]	475_ENX 16 EASY
383_GPX 32 A/C	3	477_ENX 16 EASY Abs.
384_GPX 32 LN/LZ	3	

Details on catalog page 36

Motor Control

532_ESCON Module 24/2
532_ESCON 36/2 DC
533_ESCON Module 50/5
535_ESCON 50/5
541_EPOS4 Micro 24/5
542_EPOS4 Module 24/1.5
542_EPOS4 Module 50/5
542_EPOS4 Compact 24/1.5
542_EPOS4 Compact 50/5
543_EPOS4 Compact 24/5 3-axes
547_EPOS4 50/5

Configuration

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