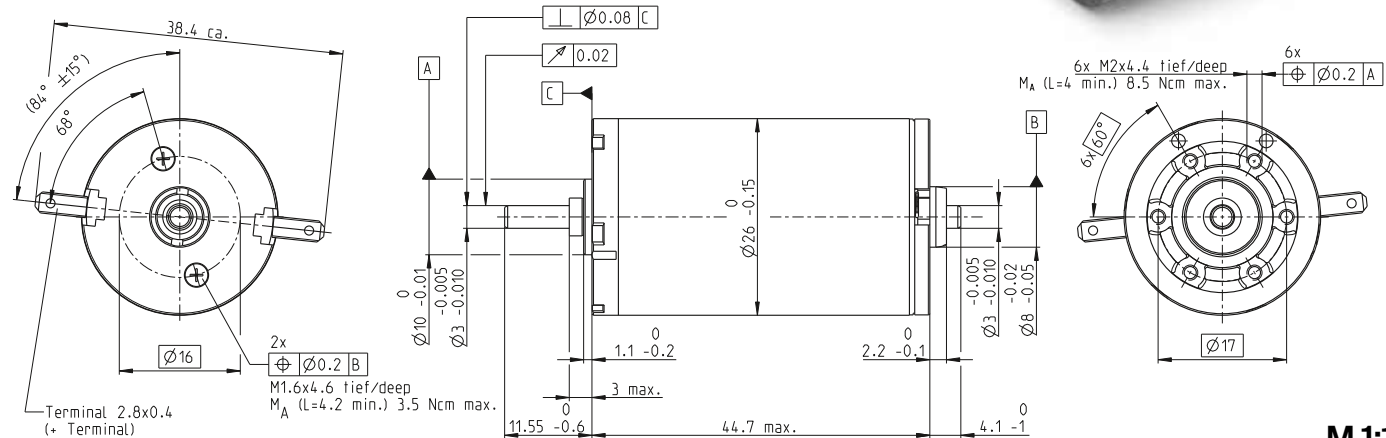


DC-max 26 S Ø26 mm, graphite brushes, DC motor

Key Data: 22/29 W, 28.3 mNm, 11000 rpm



M 1:1

Motor data

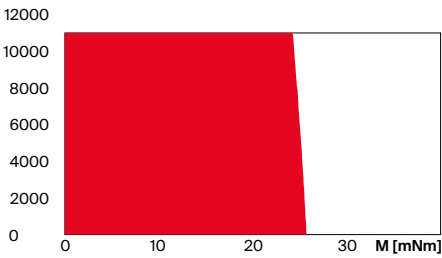
1. Nominal voltage	V	24	48
2. No load speed	rpm	8920	8730
3. No load current	mA	53	25.7
4. Nominal speed	rpm	8100	7840
5. Nominal torque	mNm	26.3	28.3
6. Nominal current (max. continuous current)	A	1.08	0.567
7. Stall torque	mNm	287	277
8. Stall current	A	11.2	5.31
9. Max. efficiency	%	87	87
10. Terminal 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

Operating range

n [rpm] Winding 24 V



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

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) (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) (shaft supported)	N	80
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
396_GPX 26 A/C	1-2 [3]	498_ENX 13 GAMA
397_GPX 26 LN/LZ	1-2 [3]	507_ENX 10 QUAD
399_GPX 32 A/C	3	509_ENX 16 EASY
400_GPX 32 LN/LZ	3	511_ENX 16 EASY Abs.

Details on catalog page 40

Motor Control

- 550_ESCON Module 24/2
- 550_ESCON 36/2 DC
- 551_ESCON Module 50/5
- 553_ESCON 50/5
- 557_ESCON2 Nano 24/2
- 557_ESCON2 Micro 60/5
- 563_EPOS4 Micro 24/5
- 564_EPOS4 Module 24/1.5
- 564_EPOS4 Module 50/5
- 565_EPOS4 Compact 24/5 3-axes
- 566_EPOS4 Compact 24/1.5
- 567_EPOS4 Compact 50/5
- 569_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