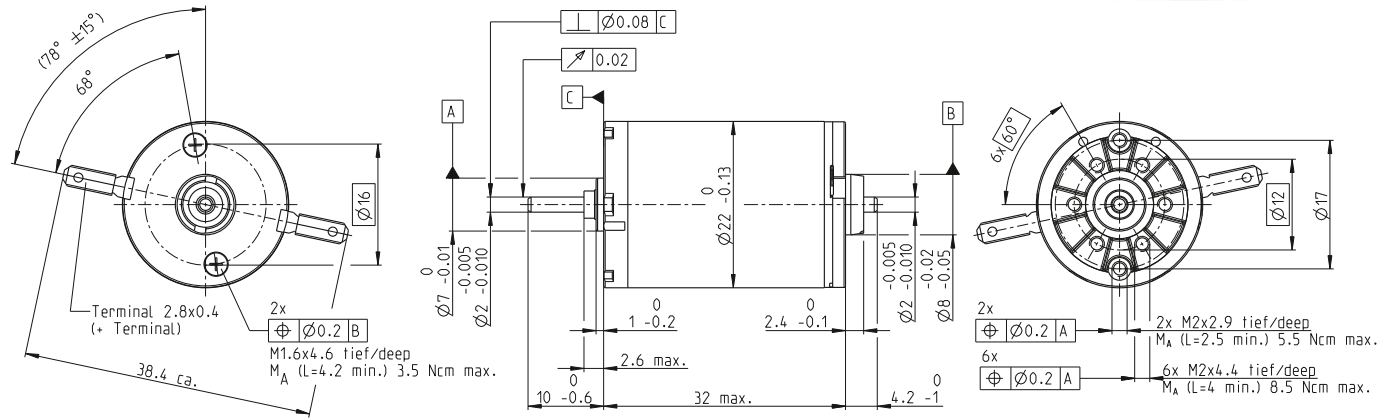


DC-max 22 S Ø22 mm, graphite brushes, DC motor

Key data: 8/10 W, 12.6 mNm, 9000 rpm



M 1:1

Motor data

1.	Nominal voltage	V	6	12	24
2.	No load speed	rpm	7030	7140	7330
3.	No load current	mA	58.8	29.5	15.1
4.	Nominal speed	rpm	4950	5240	5350
5.	Nominal torque	mNm	11.5	12.6	11.8
6.	Nominal current (max. continuous current)	A	1.52	0.825	0.398
7.	Stall torque	mNm	42.4	49.4	44.6
8.	Stall current	A	5.39	3.14	1.45
9.	Max. efficiency	%	76	80	80
10.	Terminal resistance	Ω	1.11	3.83	16.6
11.	Terminal inductance	mH	0.069	0.274	1.05
12.	Torque constant	mNm/A	7.88	15.8	30.8
13.	Speed constant	rpm/V	1210	606	310
14.	Speed/torque gradient	rpm/mNm	171	147	167
15.	Mechanical time constant	ms	9.09	8.57	8.20
16.	Rotor inertia	gcm ²	5.07	5.57	4.69

Thermal data

17.	Thermal resistance housing-ambient	K/W	20
18.	Thermal resistance winding-housing	K/W	6
19.	Thermal time constant winding	s	16.8
20.	Thermal time constant motor	s	538
21.	Ambient temperature	°C	-30...+85
22.	Max. winding temperature	°C	125

Mechanical data ball bearings

23.	Max. speed	rpm	9000
24.	Axial play	mm	0.05...0.15
	Preload	N	0
25.	Radial play	mm	0.025
26.	Max. axial load (dynamic)	N	3.3
27.	Max. force for press fits (static) (shaft supported)	N	45
28.	Max. radial load [mm from flange]	N	12.3 [5]

Mechanical data sleeve bearings

23.	Max. speed	rpm	9000
24.	Axial play	mm	0.05...0.15
	Preload	N	0
25.	Radial play	mm	0.012
26.	Max. axial load (dynamic)	N	1
27.	Max. force for press fits (static) (shaft supported)	N	80
28.	Max. radial load [mm from flange]	N	2.8 [5]

Other specifications

29.	Number of pole pairs	1
30.	Number of commutator segments	9
31.	Weight of motor	g 53.8

Configuration

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

