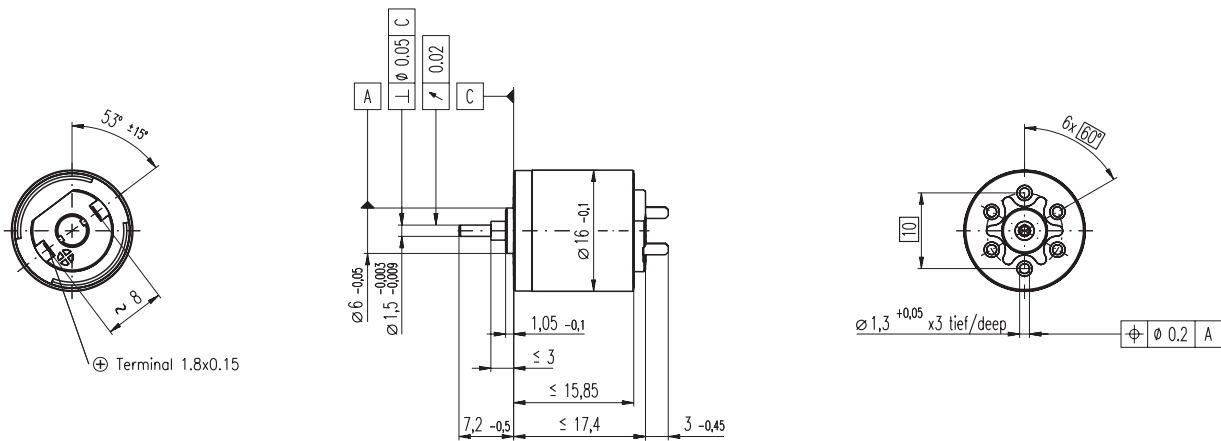


A 2516 $\varnothing 16$ mm, Precious Metal Brushes, 0.8 Watt



M 1:1

- Stock program
- Standard program
- Special program (on request)

Order Number

2516. ... -11.111-000 (Insert winding number)

Winding number

805	800	804
-----	-----	-----

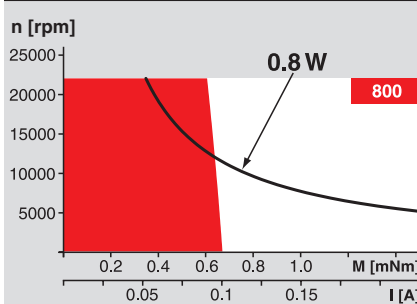
Motor Data

		805	800	804	
Values at nominal voltage					
1	Nominal voltage	V	4.5	12.0	24.0
2	No load speed	rpm	16600	16100	18200
3	No load current	mA	31.4	11.4	7.00
4	Nominal speed	rpm	6940	4990	7400
5	Nominal torque (max. continuous torque)	mNm	0.759	0.654	0.661
6	Nominal current (max. continuous current)	A	0.329	0.105	0.0603
7	Stall torque	mNm	1.32	0.964	1.13
8	Starting current	A	0.542	0.147	0.0968
9	Max. efficiency	%	60	54	56
Characteristics					
10	Terminal resistance	Ω	8.30	81.5	248
11	Terminal inductance	mH	0.128	0.926	2.95
12	Torque constant	mNm / A	2.43	6.55	11.7
13	Speed constant	rpm / V	3930	1460	817
14	Speed / torque gradient	rpm / mNm	13400	18200	17300
15	Mechanical time constant	ms	66.0	72.6	72.2
16	Rotor inertia	gcm ²	0.470	0.382	0.398

Specifications

Thermal data		
17	Thermal resistance housing-ambient	25.5 K / W
18	Thermal resistance winding-housing	28.2 K / W
19	Thermal time constant winding	5.78 s
20	Thermal time constant motor	158 s
21	Ambient temperature	-20 ... +65°C
22	Max. permissible winding temperature	+85°C
Mechanical data (sleeve bearings)		
23	Max. permissible speed	22000 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.012 mm
26	Max. axial load (dynamic)	0.5 N
27	Max. force for press fits (static)	40 N
28	Max. radial loading, 5 mm from flange	1.4 N

Operating Range



Comments

- Continuous operation**
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.
- Short term operation**
The motor may be briefly overloaded (recurring).
- Assigned power rating**

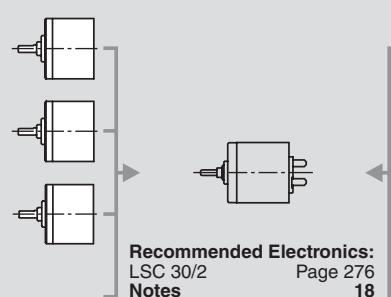
Other specifications

29	Number of pole pairs	1
30	Number of commutator segments	5
31	Weight of motor	12.4 g

Values listed in the table are nominal.
Explanation of the figures on page 49.

maxon Modular System

- Spur Gearhead**
 $\varnothing 16$ mm
0.01 - 0.03 Nm
Page 219
- Spur Gearhead**
 $\varnothing 16$ mm
0.015 - 0.04 Nm
Page 220
- Spur Gearhead**
 $\varnothing 16$ mm
0.06 - 0.1 Nm
Page 221 / 222



Overview on page 16 - 21

- Encoder MEnc**
 $\varnothing 13$ mm
16 CPT, 2 channels
Page 270