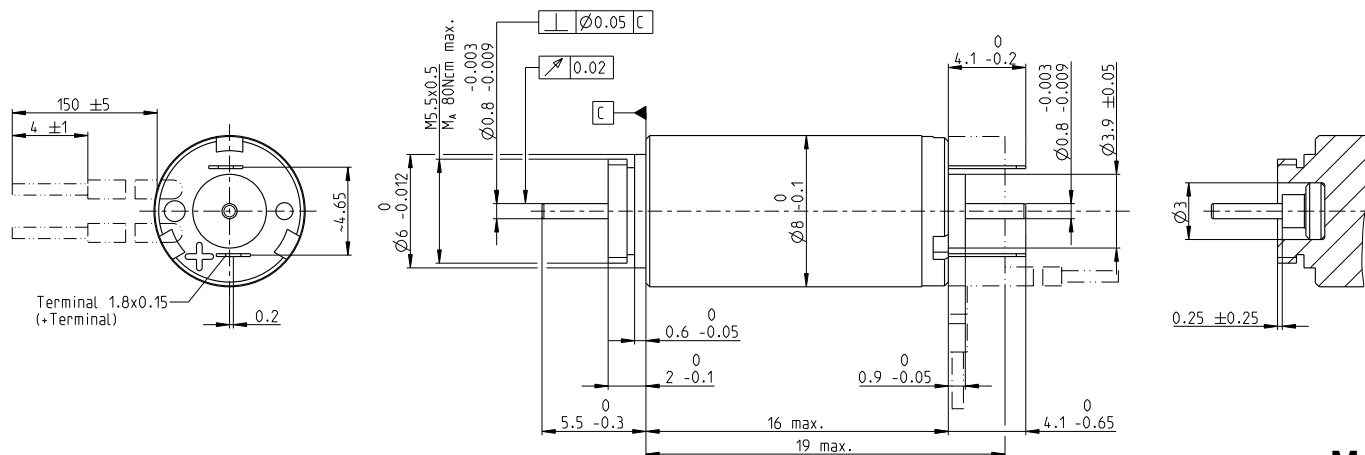


RE 8 Ø8 mm, precious metal brushes, 0.5 watt

RE



M 5:2

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

Part numbers

	B with cables	462207	463219	463220	463221	463222	463223
A with terminals		347723	347724	347725	347728	347726	347727

Motor data							
Values at nominal voltage							
1 Nominal voltage	V	2.4	4.2	6	7.2	9	12
2 No load speed	rpm	13900	14200	13300	14300	14400	15600
3 No load current	mA	19.2	11.2	7.3	6.66	5.35	4.44
4 Nominal speed	rpm	4320	4480	3500	4220	4760	5410
5 Nominal torque	mNm	0.63	0.624	0.616	0.596	0.626	0.589
6 Nominal current (max. continuous current)	A	0.412	0.237	0.155	0.134	0.113	0.0865
7 Stall torque	mNm	0.925	0.932	0.857	0.866	0.957	0.925
8 Stall current	A	0.581	0.34	0.207	0.187	0.166	0.13
9 Max. efficiency	%	67	67	66	66	68	67
Characteristics							
10 Terminal resistance	Ω	4.13	12.3	29	38.5	54.3	92.2
11 Terminal inductance	mH	0.03	0.09	0.206	0.257	0.4	0.606
12 Torque constant	mNm/A	1.59	2.74	4.15	4.63	5.77	7.11
13 Speed constant	rpm/V	6000	3490	2300	2060	1650	1340
14 Speed/torque gradient	rpm/mNm	15600	15700	16100	17200	15500	17400
15 Mechanical time constant	ms	6.31	6.3	6.34	6.44	6.29	6.49
16 Rotor inertia	gcm ²	0.0388	0.0383	0.0375	0.0358	0.0387	0.0355

Specifications	Operating range	Comments
Thermal data 17 Thermal resistance housing-ambient 48 K/W 18 Thermal resistance winding-housing 22 K/W 19 Thermal time constant winding 2.96 s 20 Thermal time constant motor 21.3 s 21 Ambient temperature -20...+65°C 22 Max. winding temperature +85°C Mechanical data (sleeve bearings) 23 Max. speed 23 000 rpm 24 Axial play 0.02 - 0.1 mm 25 Radial play 0.012 mm 26 Max. axial load (dynamic) 0.15 N 27 Max. force for press fits (static) 10 N 28 Max. radial load, 4 mm from flange 0.6 N	n [rpm] 	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 4.0 g
- Values listed in the table are nominal.
Explanation of the figures on page 94.

Modular system

Details on catalog page 48

Gear	Sensor
413_GP 8 A	499_ENX 8 IMR
467_GP 8 S	534_Encoder 8 OPT
468_GP 8 S	

Motor Control
550_ESCON Module 24/2
550_ESCON 36/2 DC
557_ESCON2 Nano 24/2
564_EPOS4 Module 24/1.5
566_EPOS4 Compact 24/1.5