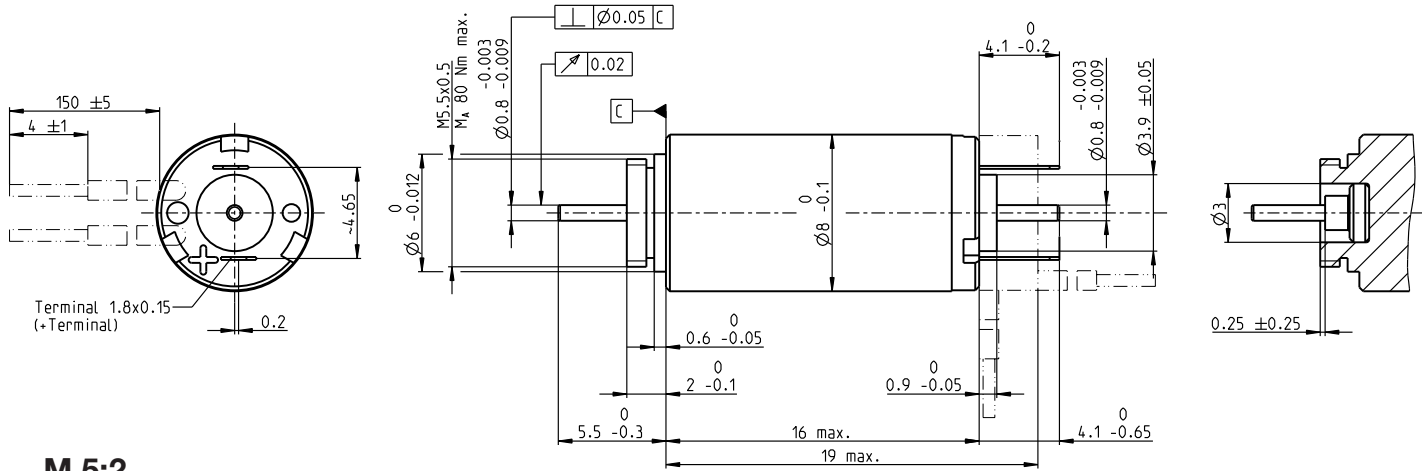


RE 8 Ø8 mm, Precious Metal Brushes, 0.5 Watt



M 5:2

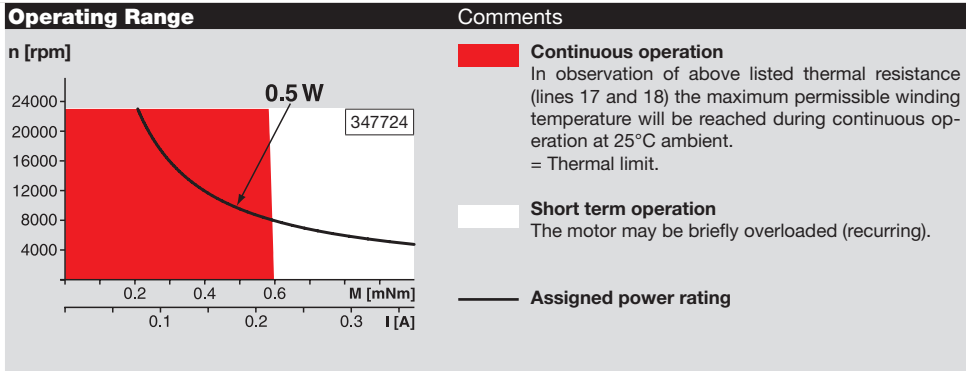
- Stock program
- Standard program
- Special program (on request)

		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 (max. continuous 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		
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	23000 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
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 151.



maxon Modular System		Overview on page 20-27
Planetary Gearhead Ø8 mm 0.01 - 0.1 Nm Page 312		for type A: Encoder MR 100 CPT, 2 channels Page 386 for type A: Encoder 8 OPT 50 CPT, 2 channels Page 395
Spindle Drive Ø8 mm Page 363-364		
Recommended Electronics: Notes Page 24		
ESCON Module 24/2 416 ESCON 36/2 DC 416 EPOS2 24/2 424 EPOS2 Module 36/2 424		