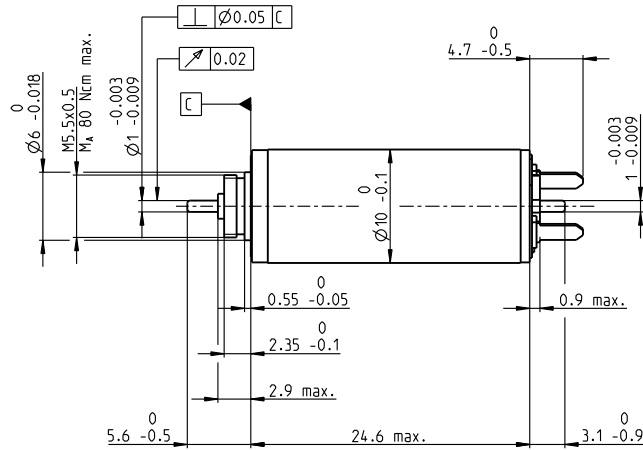
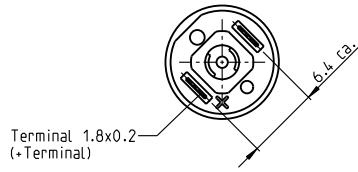


RE 10 Ø10 mm, precious metal brushes, 1.5 watt

RE

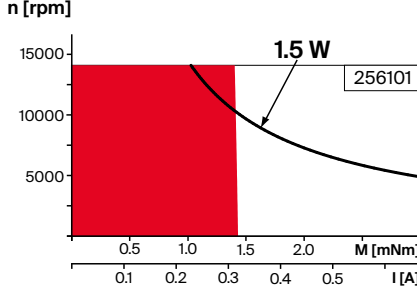


M 3:2

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

Part numbers

		256096	256097	256099	256100	256101	256102	256103	256104	256105	
Motor data											
Values at nominal voltage											
1	Nominal voltage	V	2.4	2.4	4.5	4.5	6	7.2	9	10	12
2	No load speed	rpm	10400	8560	12800	10600	12400	11900	12200	12300	12500
3	No load current	mA	21.7	17	15.1	11.8	10.8	8.55	7.06	6.45	5.5
4	Nominal speed	rpm	4170	2230	6530	4210	6160	5900	6080	6250	6510
5	Nominal torque	mNm	1.51	1.49	1.48	1.47	1.5	1.56	1.53	1.54	1.55
6	Nominal current (max. continuous current)	A	0.715	0.583	0.462	0.379	0.339	0.282	0.226	0.207	0.176
7	Stall torque	mNm	2.49	2.02	3.04	2.47	3.01	3.13	3.08	3.14	3.24
8	Stall current	A	1.15	0.771	0.919	0.619	0.66	0.549	0.444	0.412	0.36
9	Max. efficiency	%	75	73	76	75	76	77	77	77	77
Characteristics											
10	Terminal resistance	Ω	2.08	3.11	4.9	7.27	9.09	13.1	20.3	24.3	33.3
11	Terminal inductance	mH	0.017	0.025	0.04	0.059	0.077	0.12	0.178	0.215	0.299
12	Torque constant	mNm/A	2.16	2.62	3.3	3.99	4.56	5.7	6.95	7.63	9
13	Speed constant	rpm/V	4410	3640	2890	2400	2100	1680	1370	1250	1060
14	Speed / torque gradient	rpm/mNm	4240	4330	4280	4370	4180	3860	4010	3980	3930
15	Mechanical time constant	ms	4.62	4.61	4.6	4.59	4.58	4.56	4.59	4.56	4.56
16	Rotor inertia	gcm ²	0.104	0.102	0.102	0.1	0.105	0.113	0.109	0.11	0.111

Specifications	Operating range	Comments
Thermal data	n [rpm]	Continuous operation
17 Thermal resistance housing-ambient		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.
18 Thermal resistance winding-housing		= Thermal limit.
19 Thermal time constant winding		
20 Thermal time constant motor		
21 Ambient temperature		
22 Max. winding temperature		
Mechanical data (sleeve bearings)		Short term operation
23 Max. speed		The motor may be briefly overloaded (recurring).
24 Axial play		
25 Radial play		
26 Max. axial load (dynamic)		
27 Max. force for press fits (static)		
28 Max. radial load, 4 mm from flange		Assigned power rating

Other specifications

- 29 Number of pole pairs
- 30 Number of commutator segments
- 31 Weight of motor

Values listed in the table are nominal.
Explanation of the figures on page 94.

1	Modular system		Details on catalog page 48
7	Gear	Sensor	Motor Control
10 g	414_GP 10 A	497_ENX 10 GAMA	550_ESCON Module 24/2
		500_ENX 10 IMR	550_ESCON 36/2 DC
		532_Encoder MR 16 CPT	557_ESCON2 Nano 24/2
			564_EPOS4 Module 24/1.5
			566_EPOS4 Compact 24/1.5