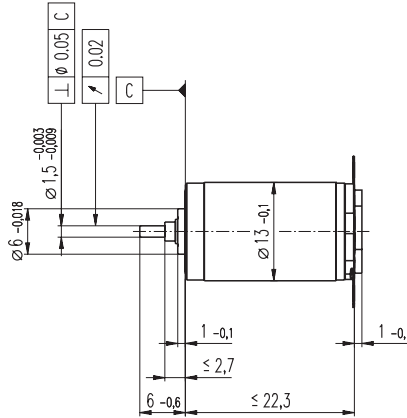
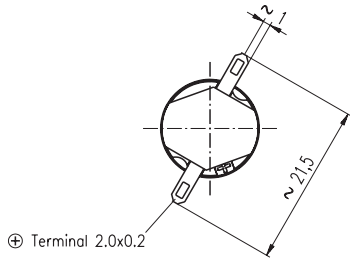


RE 13 $\varnothing 13$ mm, Graphite Brushes, 1.5 Watt



M 1:1

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

Order Number

118521	118522	118523	118524	118525	118526	118527	118528	118529	118530	118531	118532	118533	118534	118535
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Motor Data		118521	118522	118523	118524	118525	118526	118527	118528	118529	118530	118531	118532	118533	118534	118535	
Values at nominal voltage																	
1	Nominal voltage	V	1.2	1.5	2.4	3.0	3.6	4.2	4.8	6.0	7.2	9.0	12.0	12.0	15.0	18.0	20.0
2	No load speed	rpm	12800	12900	13600	13200	13000	13300	12300	12700	12300	12300	13300	12400	13200	14000	13300
3	No load current	mA	472	388	257	196	158	139	110	92.2	73.5	59.0	49.1	44.6	38.8	35.1	29.6
4	Nominal speed	rpm	11900	11200	10300	8420	7770	8270	7180	7550	7100	7110	8150	7060	7990	9010	8150
5	Nominal torque (max. continuous torque)	mNm	0.205	0.337	0.724	1.06	1.24	1.28	1.30	1.27	1.29	1.28	1.23	1.25	1.23	1.23	1.22
6	Nominal current (max. continuous current)	A	0.720	0.720	0.720	0.720	0.66	0.591	0.486	0.394	0.321	0.256	0.202	0.189	0.160	0.142	0.121
7	Stall torque	mNm	3.13	2.85	3.21	3.17	3.32	3.61	3.34	3.35	3.27	3.24	3.41	3.13	3.36	3.65	3.35
8	Starting current	A	4.00	2.97	2.17	1.65	1.41	1.34	1.01	0.836	0.658	0.524	0.445	0.382	0.347	0.333	0.264
9	Max. efficiency	%	43	41	44	44	45	47	46	45	45	45	44	45	47	45	
Characteristics																	
10	Terminal resistance	Ω	0.300	0.504	1.11	1.81	2.55	3.14	4.76	7.18	10.9	17.2	27.0	31.4	43.2	54.0	75.8
11	Terminal inductance	mH	0.0061	0.0091	0.0216	0.0362	0.0545	0.0719	0.108	0.158	0.243	0.377	0.579	0.661	0.921	1.19	1.59
12	Torque constant	mNm / A	0.783	0.958	1.48	1.92	2.35	2.70	3.31	4.00	4.96	6.18	7.66	8.18	9.66	11.0	12.7
13	Speed constant	rpm / V	12200	9970	6450	4990	4060	3540	2890	2380	1920	1540	1250	1170	988	871	751
14	Speed / torque gradient	rpm / mNm	4670	5250	4820	4720	4400	4120	4150	4270	4240	4300	4390	4480	4420	4290	4480
15	Mechanical time constant	ms	17.4	15.9	14.5	14.2	13.9	13.7	13.6	13.6	13.6	13.6	13.7	13.7	13.7	13.5	13.7
16	Rotor inertia	gcm ²	0.356	0.290	0.288	0.287	0.301	0.317	0.313	0.305	0.306	0.303	0.298	0.292	0.295	0.302	0.292

Specifications	Operating Range	Comments
<p>Thermal data</p> <p>17 Thermal resistance housing-ambient 46 K / W</p> <p>18 Thermal resistance winding-housing 14 K / W</p> <p>19 Thermal time constant winding 5.35 s</p> <p>20 Thermal time constant motor 345 s</p> <p>21 Ambient temperature -20 ... +85°C</p> <p>22 Max. permissible winding temperature +125°C</p> <p>Mechanical data (sleeve bearings)</p> <p>23 Max. permissible speed 16000 rpm</p> <p>24 Axial play 0.05 - 0.15 mm</p> <p>25 Radial play 0.014 mm</p> <p>26 Max. axial load (dynamic) 0.8 N</p> <p>27 Max. force for press fits (static) 15 N</p> <p>28 Max. radial loading, 5 mm from flange 1.4 N</p> <p>Other specifications</p> <p>29 Number of pole pairs 1</p> <p>30 Number of commutator segments 7</p> <p>31 Weight of motor 15 g</p>	<p>Operating Range</p>	<p>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.</p> <p>Short term operation The motor may be briefly overloaded (recurring).</p> <p>Assigned power rating</p>

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

Recommended Electronics:
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