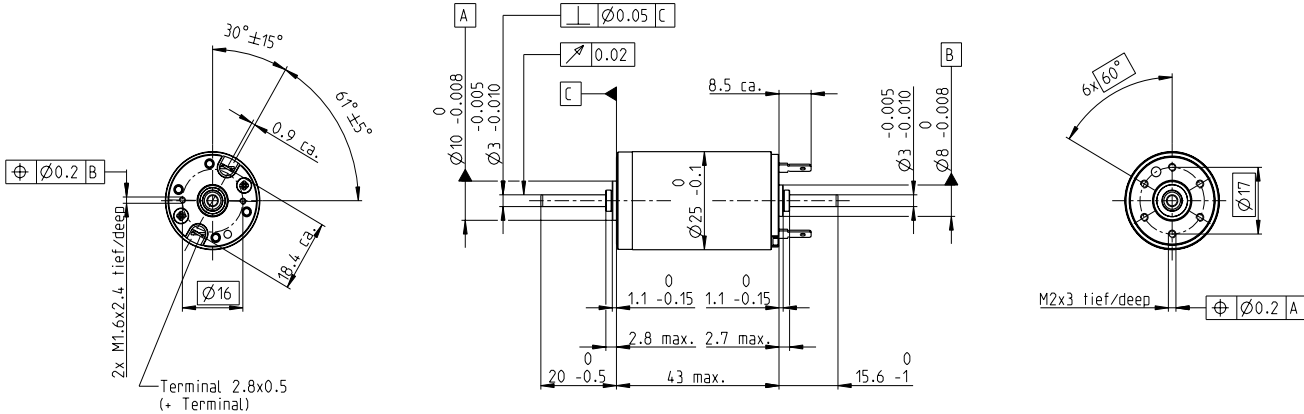


RE 25 Ø25 mm, graphite brushes, 20 watt

RE



M 1:2

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

Part numbers

Motor data	302534	339149	339150	339151	339152	339153	339154	339155	339156	339157	339158
Values at nominal voltage											
1 Nominal voltage	V	7.2	9	12	18	24	30	36	48	48	48
2 No load speed	rpm	10500	9710	9620	10400	10900	9210	10100	9540	8450	6720
3 No load current	mA	133	93.2	68.1	50.6	40.2	25	23.7	16.4	13.7	9.89
4 Nominal speed	rpm	8970	8260	8310	9190	9690	8010	8860	8360	7270	5530
5 Nominal torque	mNm	21.9	24.4	27.5	29.1	30.4	31.4	30.7	31.7	32.3	32.9
6 Nominal current (max. continuous current)	A	3.68	2.97	2.45	1.85	1.5	1.04	0.931	0.68	0.614	0.495
7 Stall torque	mNm	259	238	268	297	325	265	279	270	243	192
8 Stall current	A	42.1	28.1	23.2	18.4	15.6	8.61	8.24	5.67	4.51	2.84
9 Max. efficiency	%	79	81	84	86	88	88	88	89	88	88
Characteristics											
10 Terminal resistance	Ω	0.171	0.32	0.517	0.98	1.53	3.49	4.37	8.47	10.6	16.9
11 Terminal inductance	mH	0.016	0.031	0.057	0.112	0.186	0.407	0.493	0.979	1.25	1.97
12 Torque constant	mNm/A	6.15	8.46	11.5	16.1	20.8	30.8	33.8	47.7	53.8	67.7
13 Speed constant	rpm/V	1550	1130	828	591	460	311	282	200	177	141
14 Speed/torque gradient	rpm/mNm	43.2	42.8	37.1	35.9	34	35.2	36.5	35.6	35.1	35.2
15 Mechanical time constant	ms	6.52	6.06	5.62	5.36	5.24	5.17	5.16	5.13	5.12	5.14
16 Rotor inertia	gcm ²	14.4	13.5	14.5	14.3	14.7	14	13.5	13.8	13.9	13.3

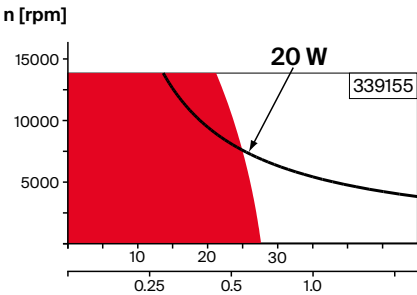
Specifications

- Thermal data
- 17 Thermal resistance housing-ambient 14.4 K/W
- 18 Thermal resistance winding-housing 5.1 K/W
- 19 Thermal time constant winding 27.7 s
- 20 Thermal time constant motor 543 s
- 21 Ambient temperature -30...+100°C
- 22 Max. winding temperature +155°C
- Mechanical data (ball bearings)
- 23 Max. speed 14000 rpm
- 24 Axial play 0.05 - 0.15 mm
- 25 Radial play 0.025 mm
- 26 Max. axial load (dynamic) 20 N
- 27 Max. force for press fits (static) (static, shaft supported) 60 N
- 28 Max. radial load, 5 mm from flange 1000 N

Other specifications

- 29 Number of pole pairs 1
- 30 Number of commutator segments 11
- 31 Weight of motor 115 g
- Values listed in the table are nominal.
- Explanation of the figures on page 94.

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

Modular system

Gear	Sensor	Motor Control
425_GP 26 A	505_ENX 25 IMR	550_ESCON Module 24/2
426_GP 32 BZ	536_Encoder HEDS 5540	550_ESCON 36/2 DC
427_GP 32 A	537_Encoder HEDL 5540	551_ESCON Module 50/5
429_GP 32 C	542_DC-Tacho DCT 22	553_ESCON 50/5
435_KD 32		557_ESCON2 Nano 24/2
474-482_GP 32 S	Accessories	557_ESCON2 Micro 60/5
	587_Brake AB 28	563_EPOS4 Micro 24/5
		564_EPOS4 Module 24/1.5
		564_EPOS4 Module 50/5
		565_EPOS4 Compact 24/5 3-axes
		566_EPOS4 Compact 24/1.5
		567_EPOS4 Compact 50/5
		569_EPOS4 50/5