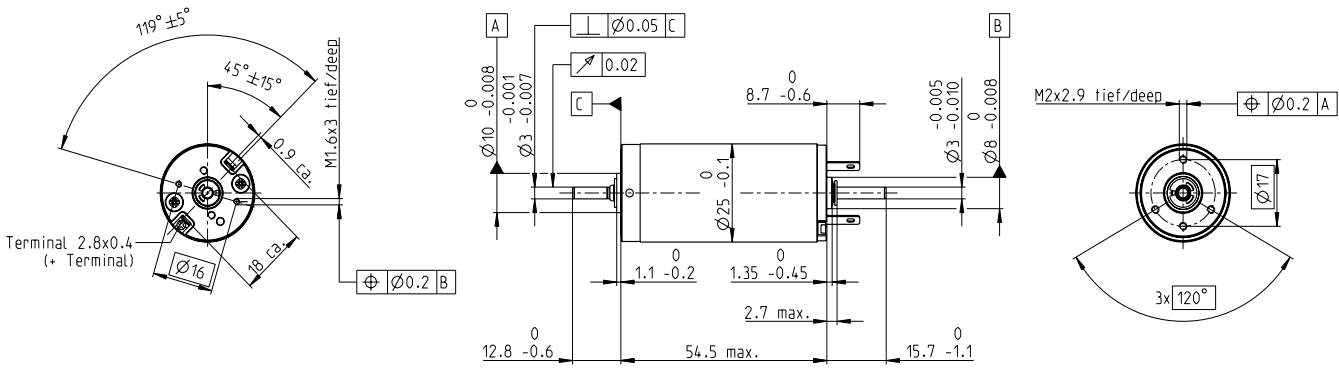


RE 25 Ø25 mm, precious metal brushes CLL, 10 watt

RE



M 1:2

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

Part numbers

Motor data		118740	118741	118742	118743	118744	118745	118746	118747	118748
Values at nominal voltage										
1 Nominal voltage	V	4.5	8	9	12	15	18	24	32	48
2 No load speed	rpm	5360	5320	5230	4850	4980	4790	5190	5510	5070
3 No load current	mA	79.7	44.4	38.7	26.3	21.8	9.88	14.4	11.7	6.96
4 Nominal speed	rpm	4980	4520	4220	3800	3920	3710	4130	4450	4000
5 Nominal torque	mNm	11.4	20.9	23.9	28.6	28.2	28.7	28	27.9	27.9
6 Nominal current (max. continuous current)	A	1.5	1.5	1.5	1.24	1.01	0.811	0.652	0.516	0.317
7 Stall torque	mNm	131	132	119	129	131	126	136	144	132
8 Stall current	A	16.5	9.23	7.31	5.5	4.57	3.52	3.1	2.61	1.47
9 Max. efficiency	%	87	87	86	87	87	90	87	87	87
Characteristics										
10 Terminal resistance	Ω	0.273	0.867	1.23	2.18	3.28	5.11	7.73	12.3	32.6
11 Terminal inductance	mH	0.0275	0.0882	0.115	0.238	0.353	0.551	0.832	1.31	3.48
12 Torque constant	mNm/A	7.99	14.3	16.3	23.5	28.6	35.8	43.9	55.2	89.9
13 Speed constant	rpm/V	1200	668	584	406	334	267	217	173	106
14 Speed/torque gradient	rpm/mNm	40.9	40.5	44	37.7	38.3	38.2	38.3	38.5	38.6
15 Mechanical time constant	ms	4.99	4.4	4.37	4.25	4.23	4.22	4.22	4.22	4.23
16 Rotor inertia	gcm ²	11.7	10.4	9.49	10.8	10.6	10.6	10.5	10.5	10.5

Specifications	Operating range	Comments
Thermal data 17 Thermal resistance housing-ambient 14 K/W 18 Thermal resistance winding-housing 3.1 K/W 19 Thermal time constant winding 12.5 s 20 Thermal time constant motor 612 s 21 Ambient temperature -20...+85°C 22 Max. winding temperature +100°C	n [rpm] 10 W 118743	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
Mechanical data (ball bearings) 23 Max. speed 5500 rpm 24 Axial play 0.05 - 0.15 mm 25 Radial play 0.025 mm 26 Max. axial load (dynamic) 3.2 N 27 Max. force for press fits (static) (static, shaft supported) 64 N 28 Max. radial load, 5 mm from flange 800 N 16 N		

Other specifications	Modular system	Details on catalog page 48
29 Number of pole pairs 1 30 Number of commutator segments 11 31 Weight of motor 130 g CLL = Capacitor Long Life Values listed in the table are nominal. Explanation of the figures on page 94. Option Preloaded ball bearings	Gear 425_GP 26 A 426_GP 32 BZ 427_GP 32 A 429_GP 32 C 435_KD 32 474-482_GP 32 S Sensor 505_ENX 25 IMR 535_Encoder HEDS 5540 537_Encoder HEDL 5540 542_DC-Tacho DCT 22	Motor Control 550_ESCON Module 24/2 550_ESCON 36/2 DC 551_ESCON Module 50/5 553_ESCON 50/5 557_ESCON2 Nano 24/2 557_ESCON2 Micro 60/5 563_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