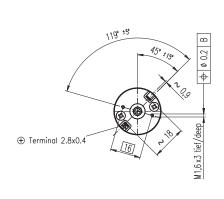
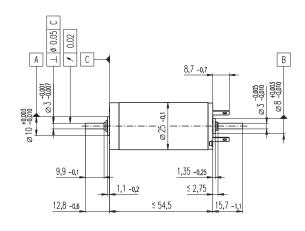
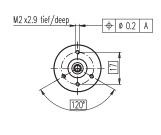
RE 25 Ø25 mm, Graphite Brushes, 20 Watt







M 1:2

Stock program Order Number Standard program Special program (on request) according to dimensional drawing 118749 118750 118751 118752 118753 118754 118755 118756 118757 shaft length 15.7 shortened to 4 mm 302002 302003 302004 302005 302006 302007 302001 302008 302009 **Motor Data** Values at nominal voltage 1 Nominal voltage 9.0 18.0 24.0 30.0 42.0 48.0 48.0 48.0 15.0 11100 10300 5050 10000 9650 10200 9550 9860 8230 No load speed rnm 3 No load current mΑ 110 60.7 53.9 36.9 30.5 25.2 20.1 15.2 8.51 4 Nominal speed rpm 8980 8470 8890 8360 8680 9950 9190 7070 3870 5 Nominal torque (max. continuous torque) mNm 11.1 20.6 23.1 26.7 27.2 27.6 28.4 29.4 30.8 6 Nominal current (max. continuous current) Α 1.50 1.50 1.47 0.983 0.799 0.667 0.548 0.352 7 Stall torque mNm 244 237 233 257 263 299 280 222 136 1.52 Starting current 30.7 16.6 11.0 9.21 8.39 6.38 4.03 Α 14.3 9 Max. efficiency 83 84 86 86 88 88 87 85 % 77 Characteristics 10 Terminal resistance Ω 0.293 0.902 1 26 2 19 3 26 5 00 7 53 11.9 31 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 7.97 14.3 16.3 23.4 28.5 35.7 43.8 55.0 89.7 Speed constant rpm / V 1200 669 585 407 335 268 218 173 106 14 Speed / torque gradient rpm / mNm 44.1 42.3 45.3 38.1 38.2 37.5 37.4 37.6 37.5 15 Mechanical time constant 5.36 4.58 4.49 4.28 4.20 4.13 4.11 4.10 4.09 ms

10.3

acm²

11

130 g

11.6

9.45

10.7

10.5

10.5

10.5

16 Rotor inertia Specifications

Thermal data

17 Thermal resistance housing-ambient
18 Thermal resistance winding-housing
19 Thermal time constant winding
20 Thermal time constant motor
21 Ambient temperature
31 K / W
3.1 K / W
3.2 M - W
3.3 M - W
3.4 M - W
3.5 M - W
3.5 M - W
3.6 M - W
3.7 M - W
3.7

Max. permissible winding temperature +125°C

Mechanical data (ball bearings)

 23
 Max. permissible speed
 14000 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 loading, 5 mm from flange
 16 N

Other specifications

29 Number of pole pairs

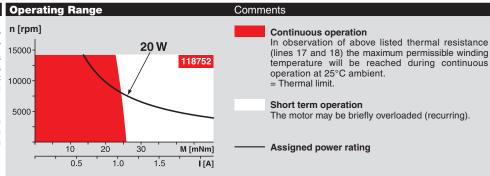
30 Number of commutator segments

31 Weight of motor

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

Option

Preloaded ball bearings



10.4

10.4

