RE 10 Ø10 mm, Precious Metal Brushes, 1.5 Watt

0.104

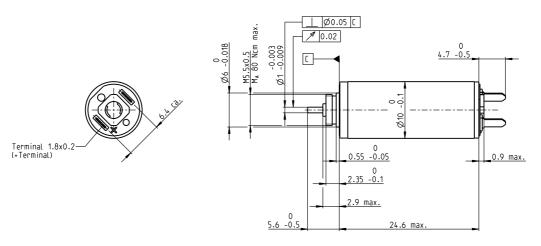
acm²

10 g

0.102

0.102

0.1



M 3:2

Stock program **Part Numbers** Standard program Special program (on request) | 118392 | 118393 | 118394 | 118395 | <mark>118396 |</mark> 118397 | 118398 | 118399 | 118400 **Motor Data** Values at nominal voltage Nominal voltage 2 No load speed rpm 13000 10700 12800 10600 12400 9880 12200 11100 12500 3 No load current mΑ 23.9 18.5 15.5 12.1 11.1 8.33 7.27 6.42 5.67 4 Nominal speed 6840 4430 6530 4210 6160 3880 6080 4990 6510 rpm 5 Nominal torque (max. continuous torque) mNm 1.5 1.49 1.48 1.47 1.5 1.57 1.53 1.54 1.54 6 Nominal current (max. continuous current) 0.713 0.582 0.462 0.379 0.338 0.282 0.226 0.207 0.176 7 Stall torque 3.12 2.52 3.04 2.47 2.61 3.08 2.83 3.24 mNm 8 Stall current 0.963 0.619 0.66 0.444 1.44 0.919 0.458 0.371 9 Max. efficiency % 76 74 76 76 76 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 mΗ 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 4.62 4.61 4.6 4.58 4.56 4.59 4.56 4.56 4.59 ms

Specifications Thermal data 37.5 K/W Thermal resistance housing-ambient Thermal resistance winding-housing 9.0 K/W 19 Thermal time constant winding 2.22 s Thermal time constant motor 135 s Ambient temperature -20...+65°C 22 Max. winding temperature +85°C Mechanical data (sleeve bearings) 19000 rpm 23 Max. speed 0.05 - 0.15 mm Axial play Radial play 0.012 mm 26 Max. axial load (dynamic) 0.15 N

Other specifications

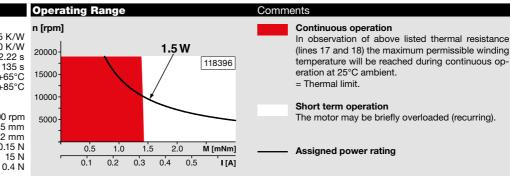
- 29 Number of pole pairs
- 30 Number of commutator segments

Max. force for press fits (static)
Max. radial load, 4 mm from flange

31 Weight of motor

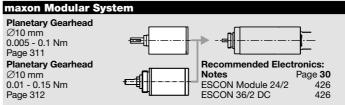
16 Rotor inertia

Values listed in the table are nominal. Explanation of the figures on page 64.



0.11

0.111



0.113

0.105

0.109

Overview on page 28-36