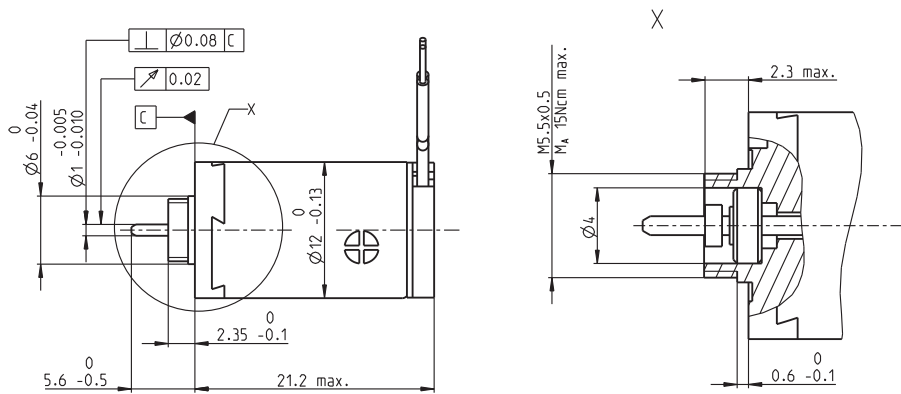
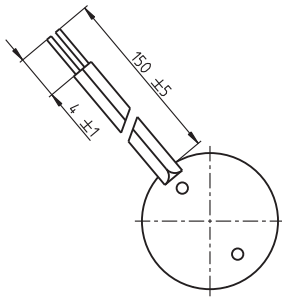


A-max 12 Ø12 mm, Precious Metal Brushes CLL, 0.75 Watt

Kabel AWG 28/7
cable UL Style 1061

⊕ Kabel rot
cable red



M 3:2

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

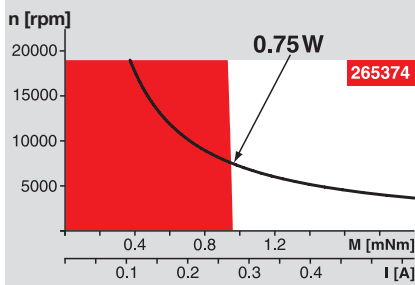
Part Numbers

| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 200937 | 265374 | 265375 | 265376 | 265377 | 265378 |
|--------|--------|--------|--------|--------|--------|

| Motor Data | | | | | | | | | | |
|---------------------------|---|------------------|-------|-------|-------|-------|-------|--------|--|--|
| Values at nominal voltage | | | | | | | | | | |
| | | 3 | 4.5 | 6 | 9 | 12 | 15 | | | |
| 1 | Nominal voltage | V | 3 | 4.5 | 6 | 9 | 12 | 15 | | |
| 2 | No load speed | rpm | 13900 | 11900 | 12800 | 12100 | 12300 | 13800 | | |
| 3 | No load current | mA | 21.1 | 11.5 | 9.47 | 5.87 | 4.5 | 4.2 | | |
| 4 | Nominal speed | rpm | 5980 | 4380 | 5260 | 4470 | 4610 | 5030 | | |
| 5 | Nominal torque (max. continuous torque) | mNm | 0.897 | 0.961 | 0.948 | 0.941 | 0.931 | 0.804 | | |
| 6 | Nominal current (max. continuous current) | A | 0.465 | 0.282 | 0.225 | 0.141 | 0.107 | 0.0836 | | |
| 7 | Stall torque | mNm | 1.58 | 1.55 | 1.63 | 1.52 | 1.52 | 1.29 | | |
| 8 | Stall current | A | 0.789 | 0.438 | 0.374 | 0.22 | 0.168 | 0.129 | | |
| 9 | Max. efficiency | % | 70 | 71 | 71 | 70 | 70 | 68 | | |
| Characteristics | | | | | | | | | | |
| 10 | Terminal resistance | Ω | 3.8 | 10.3 | 16 | 40.9 | 71.6 | 116 | | |
| 11 | Terminal inductance | mH | 0.085 | 0.264 | 0.403 | 1.01 | 1.74 | 2.13 | | |
| 12 | Torque constant | mNm/A | 2.01 | 3.53 | 4.36 | 6.92 | 9.06 | 10 | | |
| 13 | Speed constant | rpm/V | 4760 | 2710 | 2190 | 1380 | 1050 | 952 | | |
| 14 | Speed / torque gradient | rpm/mNm | 9030 | 7880 | 8060 | 8170 | 8330 | 11000 | | |
| 15 | Mechanical time constant | ms | 20.6 | 20.3 | 20.4 | 20.4 | 20.5 | 21.1 | | |
| 16 | Rotor inertia | gcm ² | 0.218 | 0.246 | 0.241 | 0.238 | 0.235 | 0.183 | | |

Specifications Operating Range Comments

| | |
|--|----------------|
| Thermal data | |
| 17 Thermal resistance housing-ambient | 44.5 K/W |
| 18 Thermal resistance winding-housing | 15 K/W |
| 19 Thermal time constant winding | 5.03 s |
| 20 Thermal time constant motor | 245 s |
| 21 Ambient temperature | -30...+65°C |
| 22 Max. winding temperature | +85°C |
| Mechanical data (sleeve bearings) | |
| 23 Max. speed | 19000 rpm |
| 24 Axial play | 0.05 - 0.15 mm |
| 25 Radial play | 0.012 mm |
| 26 Max. axial load (dynamic) | 0.15 N |
| 27 Max. force for press fits (static) | 15 N |
| 28 Max. radial load, 4 mm from flange | 0.4 N |



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

| | |
|---|------|
| Other specifications | |
| 29 Number of pole pairs | 1 |
| 30 Number of commutator segments | 7 |
| 31 Weight of motor | 11 g |
| CLL = Capacitor Long Life Alignment of the electronic connections not specified. | |
| Values listed in the table are nominal. Explanation of the figures on page 151. | |

maxon Modular System Overview on page 20–27

| | |
|---|--|
| <p>Planetary Gearhead Ø10 mm 0.01 - 0.15 Nm Page 314</p> <p>Spur Gearhead Ø12 mm 0.01 - 0.03 Nm Page 315</p> <p>Planetary Gearhead Ø13 mm 0.05 - 0.15 Nm Page 316</p> <p>Planetary Gearhead Ø13 mm 0.2 - 0.35 Nm Page 317</p> | <p>Recommended Electronics: Notes Page 24</p> <p>ESCON Module 24/2 416</p> <p>ESCON 36/2 DC 416</p> |
|---|--|