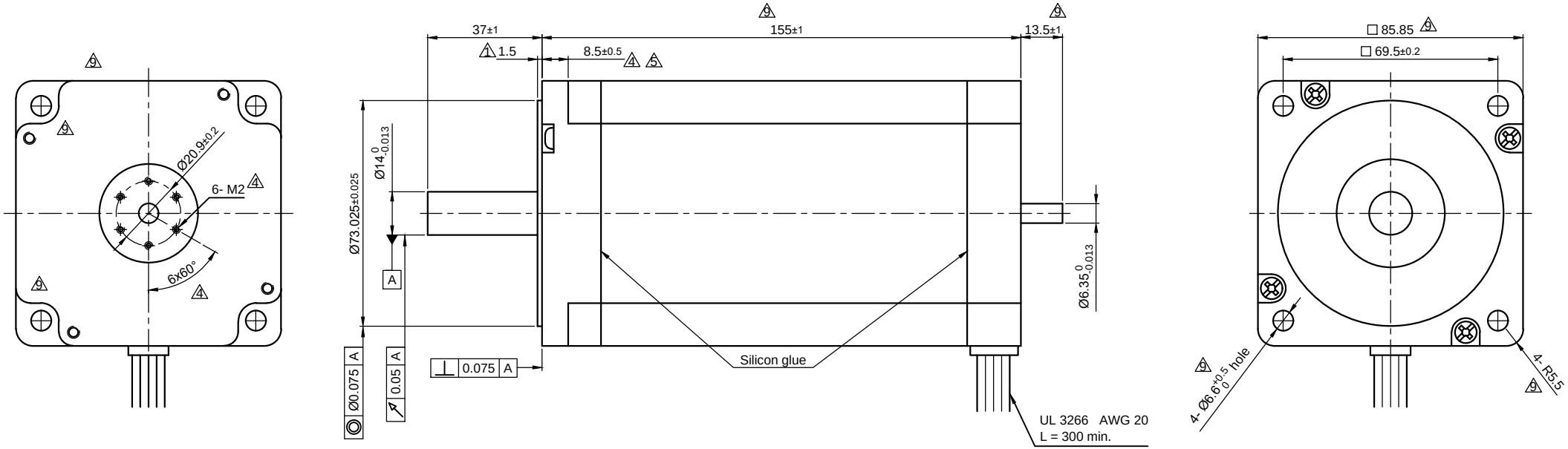
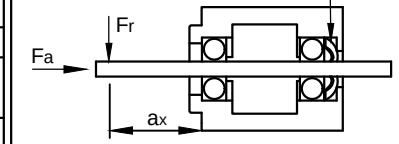



| MOTOR SPECIFICATION | | CONNECTION | | |
|---|---|---|---|---|
| | | UNIPOLAR | SERIES | PARALLEL |
| Voltage | V DC | 5.03 3 | | |
| Current per Winding | A | 6.7 | 4.7 | 9.5 |
| Resistance per Phase (25°C) ±15% | Ω 3 | 0.75 | 1.5 | 0.375 |
| Inductance per Phase (1 kHz) ±20% | mH | 4.9 | 19.6 | 4.9 |
| Holding Torque | Nm | 8.5 7 | 12 6 7 | 12 7 6 |
| Step Angle ±5% | ° | 1.8 8 | | |
| Rotor Inertia | kg m² | 400 x10$^{-6}$ | | |

| TYPE OF CONNECTION | | | | |
|---|---|---|---|---|
| Unipolar | Series | Parallel | Wire Colour | Winding |
| A | A | A | RD | A |
| COM | | | RD/WH | |
| | | | BK/WH | A\ |
| A\ | A\ | A\ | BK | |
| B | B | B | GN | B |
| COM | | | GN/WH | |
| | | | YE/WH | B\ |
| B\ | B\ | B\ | YE | |

A-Shaft — Preload Spring — B-Shaft




| | | | |
|---|---|---|---|
| Max. Axial Force | Fa | N | 65 |
| Max. Radial Force | Fr (a1 = 5 mm) | N | 535 |
| Max. Radial Force | Fr (a2 = 20 mm) | N | 200 |
| Axial Play | Fa = 10 N | mm | 0.075 |
| Radial Play | Fr = 5 N | mm | 0.025 |

| GENERAL MOTOR SPECIFICATION | | |
|---|---|---|
| Ambient Temperature | °C | -20 ...50 |
| Max. Temperature Rise (at standstill - 2 phases energized) | °C | 80 |
| Max. Ambient Humidity (non condensing) | % | 85 |
| Insulation Class 8 | | B |
| Insulation Resistance | MΩ | 100 |
| Dielectric Strength (for 1 min - coil to case) | V AC | 500 |

| ISO 8015 | ISO 1302 | ISO 2768 cK | ISO 13715 |
|---|---|---|---|

| | | Date | Name |
|---|---|---|---|
| Drawn | | 04.12.2017 | Import |
| Checked | | 30.01.2019 | Lamfich._S |
| Approved | | 30.01.2019 | Lamfich._S |

| REV | Rev. Text | Name | Rel. Date |
|---|---|---|---|
| 09 | cha. m. length/rev. draw. | Schneid_A | 30.01.2019 |

Nanotec® PLUG & DRIVE

Weight: 5.4 kg

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State: Released | Rev: 09 | P