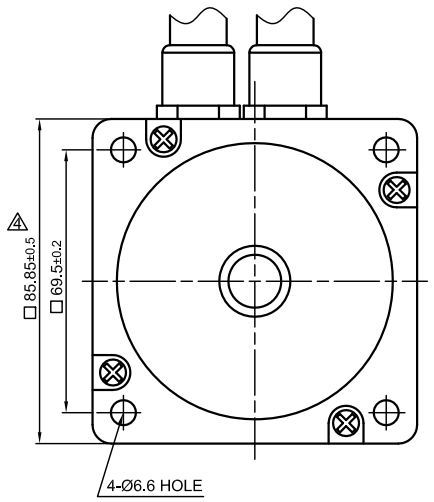
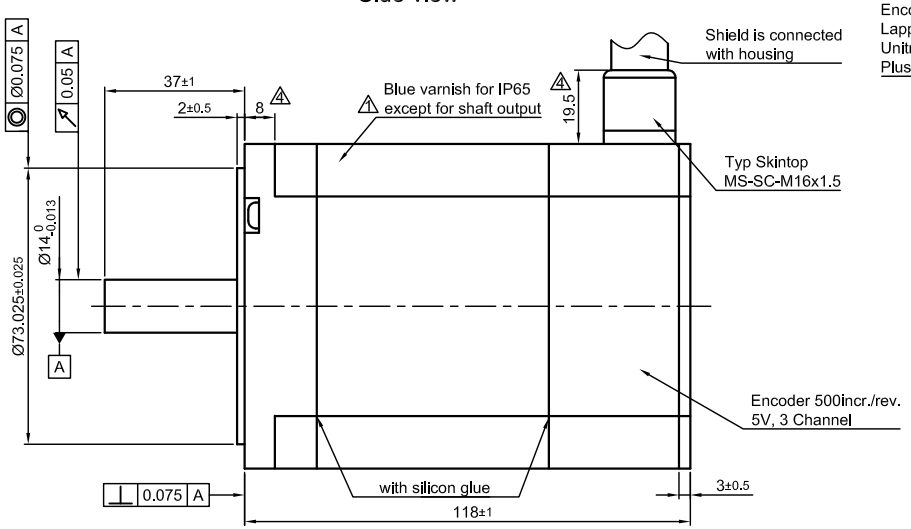
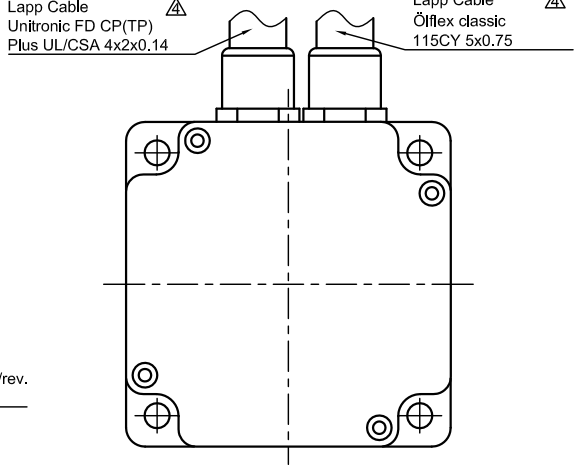
Front view and mounting




Side view




Rear view




| SPECIFICATION \ CONNECTION | BIPOLAR PARALLEL |
|---|---|
| VOLTAGE (VDC) | 2.1 |
| AMPS/PHASE | 6.36 |
| RESISTANCE/PHASE (Ohms)@25°C | 0.33±15% |
| INDUCTANCE/PHASE (mH) @1KHz | 3.0±20% |
| HOLDING TORQUE (Nm) [lb-in] | 5.94 [52.57] |
| DETENT TORQUE (Nm) [lb-in] | 0.21 [1.8585] |
| STEP ANGLE (°) | 1.8 |
| STEP ACCURACY (NON-ACCUM) | ±5% ⚠1 |
| ROTOR INERTIA (Kg-m²) [lb-in²] | 3.0x10⁻⁴ [1.025] |
| WEIGHT (Kg) [lb] | 3.5 [7.72] ⚠1 |

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]

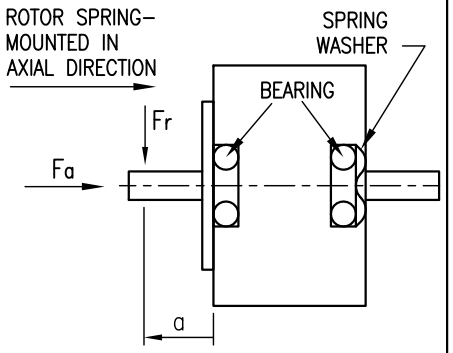
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

INSULATION CLASS B 130° [266°F]

DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)

AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

PERMISSIBLE RADIAL+AXIAL FORCE




| AXIAL-FORCE Fa (N) | Fa=65 | | | |
|---|---|---|---|---|
| DISTANCE a (mm) | 5 | 10 | 15 | 20 |
| RADIAL-FORCE Fr (N) | 535 | 355 | 256 | 200 |

| | AXIAL | RADIAL |
|---|---|---|
| SHAFT PLAY (mm) | 0.075 | 0.025 |
| AT LOAD MAX: (N) | 10 | 5.0 |

| CABLE MOTOR | |
|---|---|
| No. | ASSIGNMENt |
| 1 | A |
| 2 | A\ |
| 3 | B |
| 4 | B\ |
| 5 | GND/YEL-GRN |
| HOUSING | GND/SHIELDING |

| CABLE ENCODER ⚠3 | |
|---|---|
| COLOR | ASSIGNMENT |
| WHT | A |
| BRN | A\ |
| GRN | B |
| YEL | B\ |
| GRY | GND |
| PINK | I\ ⚠2 |
| BLU | I ⚠2 |
| RED | Vcc |

| REV | DESCRIPTION | DATE | DRN |
|---|---|---|---|
| 4 | revise drawing | 30.08.16 | A.S. |
| 3 | PIN NO. REMOVED | 22.05.12 | J.W. |
| 2 | PIN I AND I\ INTERCHANGED | 17.03.11 | J.W. |

Nanotec® PLUG & DRIVE

| Surface specification DIN ISO 1302 | General tolerances DIN ISO 2768- cH | Work piece edge DIN ISO 13715 |
|---|---|---|

| | | SIGNATURE | DATE |
|---|---|---|---|
| APVD | S.Ha. | 13.11.08 | |
| CHKD | | | |
| DRN | J.W. | 13.11.08 | |

# STEPPER MOTOR IN PROTECTION

DWG.NO

AP8918M6404-E