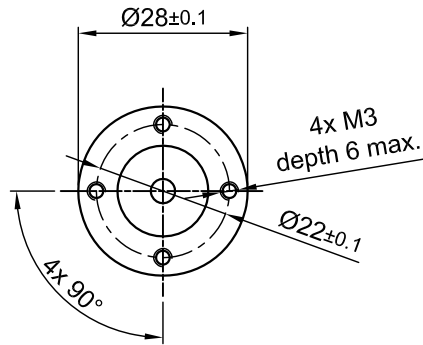
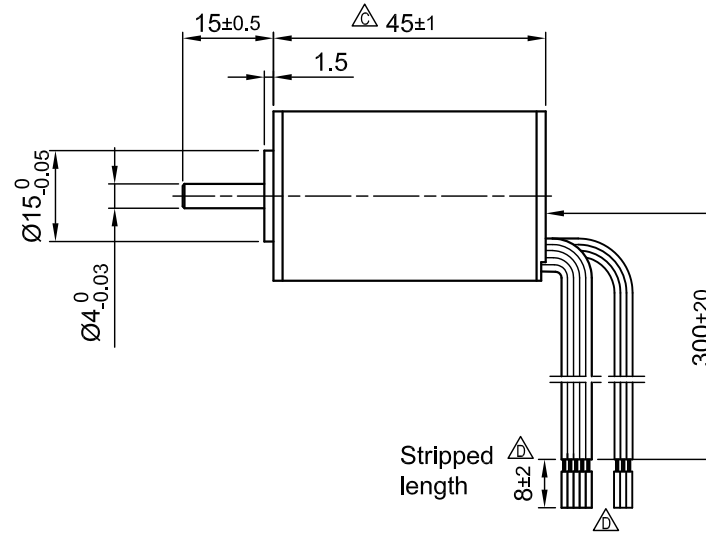


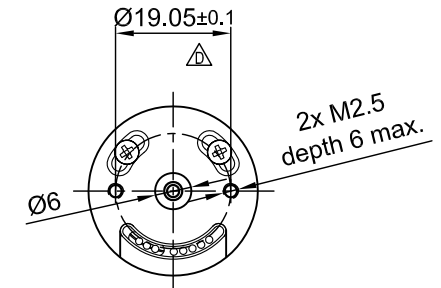
Front view and mounting



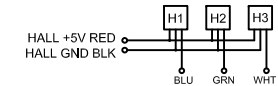
Side view



Rear view



HALL CONNECTION

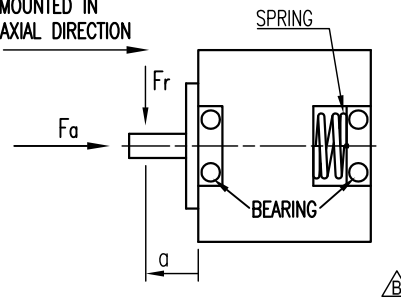


| SPECIFICATION                         | CONNECTION | STAR                  |
|---------------------------------------|------------|-----------------------|
| NO. OF POL./PHASE                     |            | 2/3                   |
| VOLTAGE RATED (VDC)                   |            | 24                    |
| CURRENT RATED/PEAK (AMP)              |            | 0.86/ 2.6             |
| RESISTANCE/ LINE TO LINE (Ohms) @25°C |            | 4.5 ±10%              |
| INDUCTANCE/ LINE TO LINE (mH) @1KHz   |            | 0.42 ±20%             |
| TORQUE RATED/PEAK (mNm)               |            | 18/55                 |
| TORQUE CONSTANT (mNm/A)               |            | 21                    |
| POWER RATED (W)                       |            | 15                    |
| SPEED RATED/NO LOAD (RPM)             |            | 8000/10000 ±10%       |
| ROTOR INERTIA (kg-m²)                 |            | 0.88x10 <sup>-6</sup> |
| WEIGHT (kg)                           |            | 0.14                  |

|                                                                                    |
|------------------------------------------------------------------------------------|
| TEMPERATURE RISE: MAX.80°C                                                         |
| 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

ROTOR SPRING-MOUNTED IN AXIAL DIRECTION

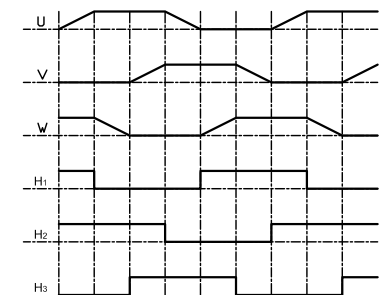


|                        |              |        |
|------------------------|--------------|--------|
| AXIAL-FORCE $F_a$ (N)  | $F_a=2$ max. |        |
| DISTANCE $a$ (mm)      | 10           |        |
| RADIAL-FORCE $F_r$ (N) | 5 max.       |        |
|                        | AXIAL        | RADIAL |
| SHAFT PLAY (mm)        | 0.14         | 0.02   |
| AT LOAD MAX: (N)       | 4            | 4      |

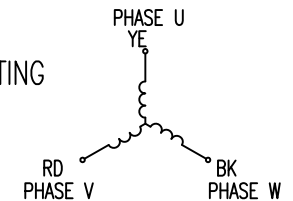
WIRING DIAGRAM

|                   | COLOR | FUNCTION | LEAD GAUGE   |
|-------------------|-------|----------|--------------|
| MOTOR 2 POL.      | YE    | U        | UL1332 AWG22 |
|                   | RD    | V        |              |
|                   | BK    | W        |              |
| HALL 6 IMPL. REV. | RD    | +5V      | UL1332 AWG26 |
|                   | BU    | H1       |              |
|                   | GN    | H2       |              |
|                   | WH    | H3       |              |
|                   | BK    | GND      |              |

CW FROM OUTPUT SHAFT



THREE-PHASE CONNECTING STAR CONNECTION



|     |             |          |      |                                                                                                                                 |                                           |                                     |           |      |               |                    |
|-----|-------------|----------|------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------|-----------|------|---------------|--------------------|
| D   | —           | 13.09.16 | A.S. |  <b>Nanotec</b> <sup>®</sup><br>PLUG & DRIVE |                                           |                                     | APVD      | G.S. | 03.09.15      | BRUSHLESS DC MOTOR |
| C   | —           | 25.08.16 | A.S. |                                                                                                                                 |                                           |                                     | CHKD      |      |               |                    |
| B   | —           | 18.05.16 | A.S. | Surface<br>specification<br>DIN ISO 1302                                                                                        | General<br>tolerances<br>DIN ISO 2768- cH | Work piece<br>edge<br>DIN ISO 13715 | DRN       | A.S. | 03.09.15      | DWG.NO             |
| REV | DESCRIPTION | DATE     | DRN  |                                                                                                                                 |                                           |                                     | SIGNATURE | DATE | DS28M024080—A |                    |