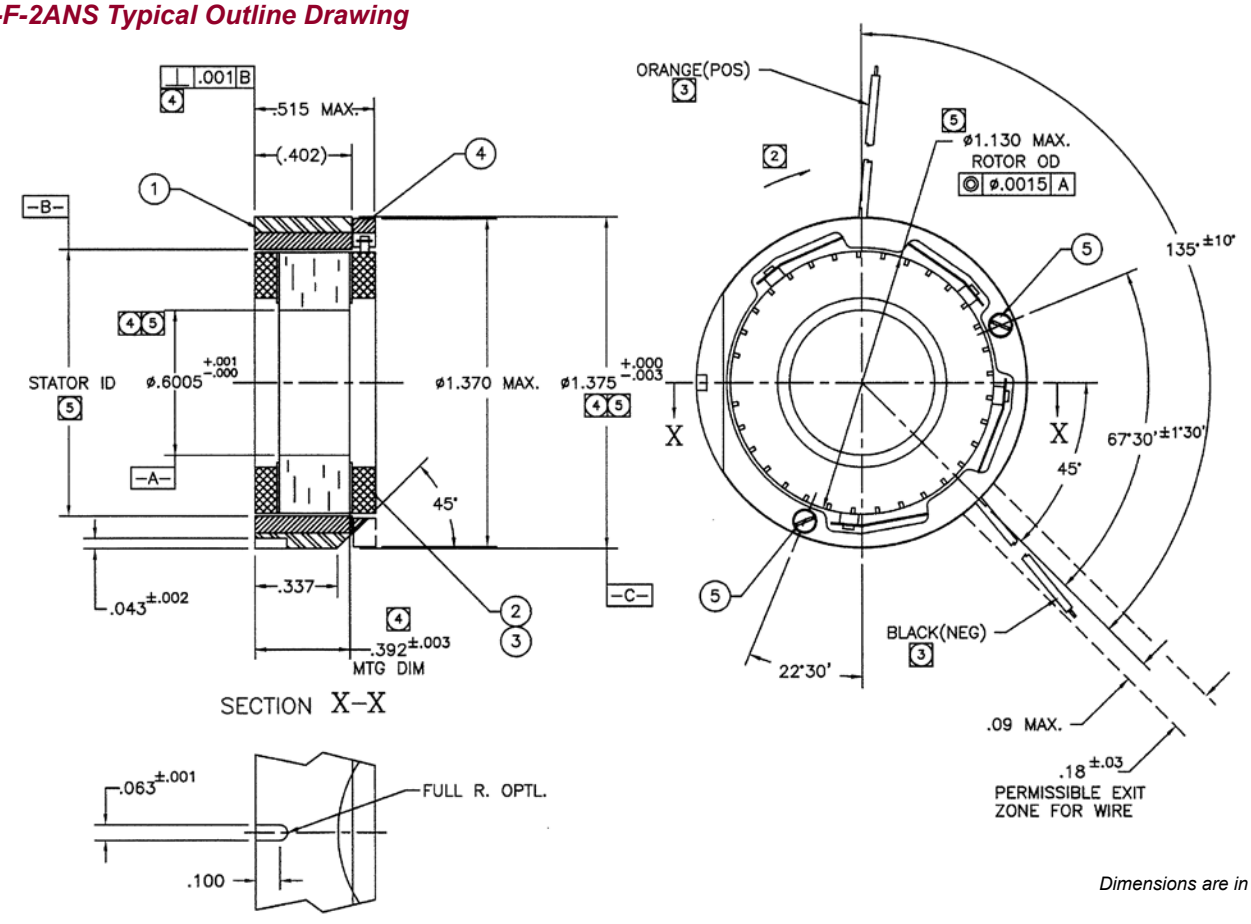
## D-1375-F-2ANS SPECIFICATIONS @ 25°C

| Size Constants | Value | Units |
|---|---|---|
| Peak Torque, $T_P$ | 43 | oz-in |
| Motor Constant, $K_M$ | 2.70 | oz-in/√W |
| Number of Poles | 8 | |
| Weight | 2.4 | oz (nom) |
| Motor Inertia, $J_M$ | 5.35E-04 | oz-in-s$^2$ |
| Friction Torque, $T_F$ | 0.88 | oz-in |
| Electrical Time Constant, $\tau_E$ | 0.172 | ms |
| Mechanical Time Constant, $\tau_M$ | 10.24 | ms |
| Temperature Rise, Housed TPR' | 17 | ° C/W |
| Ripple Torque, $T_R$ | 6 | max. avg. to peak (%) |
| **Winding Constants** | **Value** | **Units** |
| Torque Sensitivity, $K_T$ | 5.05 | oz-in/amp |
| Back EMF, $K_E$ | 0.036 | V per rad/s |
| Terminal Resistance, $R_M$ | 3.48 | ohms (nom) |
| Terminal Inductance, $L_M$ | 0.60 | mH (nom) |
| Voltage, Stalled at Peak Torque, $V_P$ | 30.0 | volts |
| Amps at Peak Torque, $I_P$ | 8.62 | amps |

### *D-1375-F-2ANS Typical Outline Drawing*




*Dimensions are in inches*