

MOTOR DATA @ 230 VAC (TRAP)

| MOTOR PARAMETERS | UNITS | VALUE |
|--------------------------------------|--|---------------|
| HORSEPOWER | HP RATED | 2.1 |
| KILOWATTS | KW RATED | 1.6 |
| MAX. OPERATING SPEED | N MAX | 4200 |
| SPEED @ RATED TORQUE | RPM | 3000 |
| * CONTINUOUS RATED TORQUE @ 3000 RPM | IN-LBS[Nm] | 45.0[15.1] |
| * CONTINUOUS STALL TORQUE | IN-LBS[Nm] | 54.0[16.1] |
| CONTINUOUS LINE CURRENT | AMPS | 8.7 |
| PEAK TORQUE | IN-LBS[Nm] | 189.1[21.3] |
| PEAK CURRENT | AMPS | 30.5 |
| MAX. THEORETICAL ACCEL. | RAD/SEC ² | 48,487 |
| TORQUE SENSITIVITY | Kt[IN-LBS/AMP][Nm/AMP] | 6.2[7.1] |
| BACK EMF (LINE TO LINE) | Vrms/krpm | 55.0 |
| D.C. RESISTANCE (P-P) | OHMS | .82 |
| INDUCTANCE (P-P) | MILLIHENRIES | 6.1 |
| ROTOR INERTIA W/BRAKE | Jm[IN-LBS-SEC ²][Kg-M ²] | .0039[.00044] |
| STATIC FRICTION | Tf[IN-LBS][Nm] | 1.0[.11] |

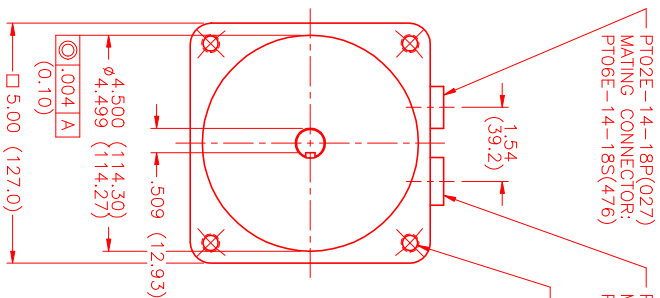
*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

MECHANICAL NOTES:

1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 23.7 LBS. [10.8 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. INCHES (MILLIMETERS)

FAILSAFE BRAKE:

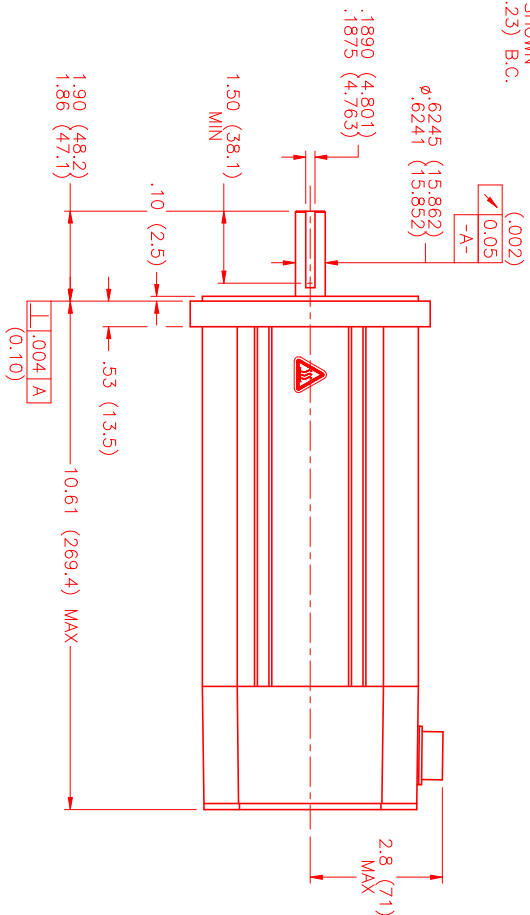
MIN HOLDING TORQUE: 240 IN-LBS
INPUT VOLTAGE: 24 VOLTS



PT02E-14-18P(027)
MATING CONNECTOR:
PT06E-14-18S(476)

PT02E-16-8P(027)
MATING CONNECTOR:
PT06E-16-8S(476)

3/8-16UNC-2B THRU
(4) EQ SPD AS SHOWN
ON Ø5.875 (149.23) B.C.



CONNECTION CHART

MOTOR/BRAKE CONNECTOR:
PT02E-16-8P(027)
(270-00032)

| MOTOR/BRAKE | WIRE LEADS |
|-------------|---------------|
| PIN | WIRE FUNCTION |
| A | ΦR |
| B | ΦS |
| C | ΦT |
| D | PE GND |
| E | BRK SHLD |
| F | BRK (+) |
| G | BRK (-) |
| H | - |

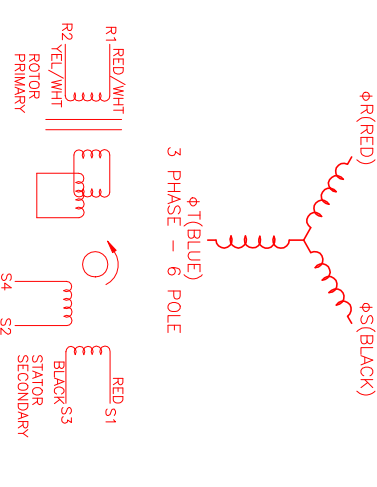
RESOLVER/THERM CONNECTOR:

PT02E-14-18P(027)
(270-00024)

| RES/THERM | WIRE FUNCTION | WIRE COLOR |
|-----------|---------------|------------|
| PIN | WIRE FUNCTION | WIRE COLOR |
| A | RES | BLACK |
| B | THERM | BLACK |
| C | THERM | BLACK |
| D | SIN | YELLOW |
| E | COS | YELLOW |
| F | COS GND | BLACK |
| G | SIN GND | BLACK |
| H | COS | RED |
| R | SIN GND | BLUE |
| E | REF GND | RED/WHIT |
| D | REF | GRN/YEL |
| P | RES. SHLD | GRN/YEL |
| A | GND | GRN/YEL |
| B | - | - |
| C | - | - |
| J | - | - |
| K | - | - |
| L | - | - |
| M | - | - |
| T | - | - |

| REV. | DESCRIPTION | DATE | APPD. |
|------|-------------|---------|-------|
| 1 | PRELIMINARY | 1/11/99 | MVS |

TITLE: * /230/ENG/RES/CONN/BRK
DRAWING NUMBER: MPM1141ATG6G1R



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER

| NO. | PART NUMBER | DESCRIPTION | QTY. |
|------------------|-------------|-------------|------|
| UNLESS SPECIFIED | | | |
| DATE: 1/11/99 | | | |
| BY: MVS | | | |
| CHECKED: | | | |
| APPROVED: | | | |

MVS
MVS Systems Corporation
Automation Division

SCALE: 1/2:1
DRAWING NUMBER: MPM1141ATG6G1R