

MOTOR DATA @ 120 VAC (TRAP)

| MOTOR PARAMETERS | UNITS | VALUE |
|--------------------------------------|---------------------------------------------------|---------------|
| HORSEPOWER | HP RATED | 1.7 |
| KILOWATTS | KW RATED | 1.3 |
| MAX. OPERATING SPEED | N MAX | 2800 |
| SPEED @ RATED TORQUE | N RATED | 2250 |
| * CONTINUOUS RATED TORQUE @ 2250 RPM | IN-LBS[Nm] | 48.0[5.4] |
| * CONTINUOUS STALL TORQUE | IN-LBS[Nm] | 54.0[6.1] |
| CONTINUOUS LINE CURRENT | AMPS | 11.3 |
| PEAK TORQUE | Tpk IN-LBS[Nm] | 189.1[21.3] |
| PEAK CURRENT | AMPS | 39.4 |
| MAX. THEORETICAL ACCEL. | RAD/SEC ² | 54,029 |
| TORQUE SENSITIVITY | Kt [IN-LBS/AMP][Nm/AMP] | 4.8[0.55] |
| BACK EMF (LINE TO LINE) | ±10% Vrms/Krpm | 43.0 |
| D.C. RESISTANCE (P-P) | ±10% OHMS | 0.57 |
| INDUCTANCE (P-P) | ±10% MILLIHENRIES | 4.0 |
| ROTOR INERTIA | Jm [IN-LBS-SEC ²][Kg-M ²] | .0035[.00039] |
| STATIC FRICTION | Tf IN-LBS[Nm] | 1.0[.11] |

CONNECTION CHART

MOTOR CONNECTOR:
PT02E-14-5P(027)
(270-00026)

ENCODER/THERM CONNECTOR:
PT02E-14-18P(027)
(270-00024)

| MOTOR WIRE LEADS | | |
|------------------|---------------|------------|
| PIN | WIRE FUNCTION | WIRE COLOR |
| A | φR | RED |
| B | φS | BLACK |
| C | φT | BLUE |
| D | PE GND | GRN/YEL |
| E | - | - |

| ENC/THERM WIRE LEADS | | |
|----------------------|---------------|------------|
| PIN | WIRE FUNCTION | WIRE COLOR |
| T | GROUND | BLACK |
| K | +5VDC | RED |
| B | CH A | BLUE |
| C | CH A \ | BLUE/BLK |
| N | CH B | GREEN |
| P | CH B \ | GRN/BLK |
| M | CH Z | YELLOW |
| U | CH Z \ | YEL/BLK |
| E | CH U | BROWN |
| R | CH U \ | BRN/BLK |
| F | CH V | GRAY |
| S | CH V \ | GRAY/BLK |
| G | CH W | WHITE |
| H | CH W \ | WHT/BLK |
| D | GND/CABLE | SHLD |
| A | THERM | BLACK |
| L | THERM | BLACK |
| J | GND | GRN/YEL |

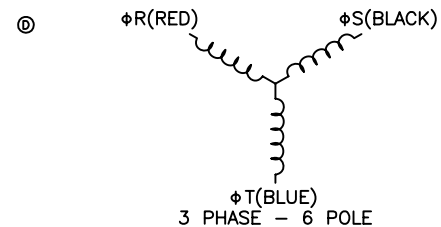
| TITLE: | | DRAWING NUMBER: | |
|---------------------|---------------|-----------------|-------|
| KE=43.0/CONN/ENG/TD | | MPM1141-489 | |
| REVISIONS | | | |
| REV. | DESCRIPTION | DATE | APPD. |
| A | N.P.R. - 19 | 9/26/95 | SW |
| B | E.C.O. - 512 | 3/15/99 | ELS |
| C | E.C.O. - 5093 | 10/14/03 | AAJ |
| D | ECO 1965 | 11/26/08 | RT |

*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:

- AXIAL LOAD: 50 LBS MAX
- RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 17.8 LBS. [8.1 Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- INCHES (MILLIMETERS)

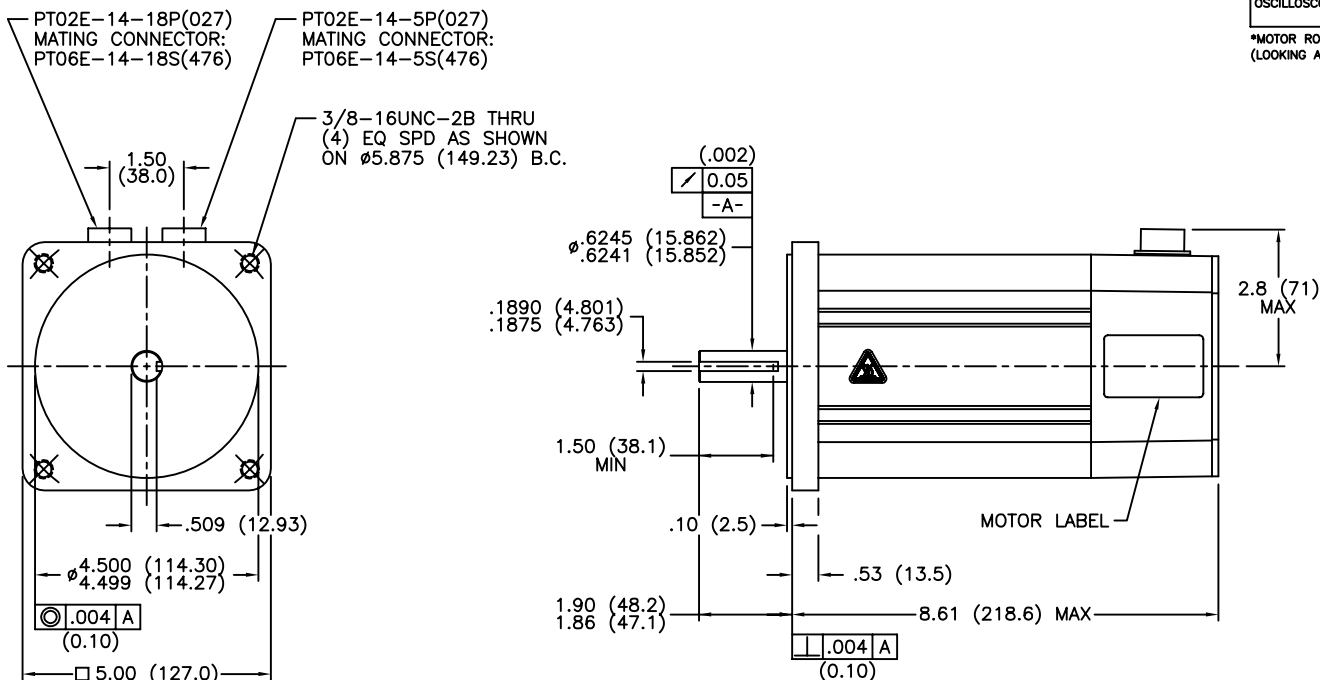
ENCODER: (290-00052)
OIH48-2000P6LREP.B



MOTOR & HALL POSITION CHART

| HALL LEADS | BROWN | GRAY | WHITE |
|--------------------------|----------------------|---------------------|-----------------------|
| MOTOR LEADS | BLACK respect to RED | RED respect to BLUE | BLUE respect to BLACK |
| VIEW ON THE OSCILLOSCOPE | | | |

*MOTOR ROTATION CCW (COUNTER CLOCKWISE) (LOOKING AT THE FACE OF THE MOTOR)
WAVE REPRESENTING STATOR OUTPUT
WAVE REPRESENTING HALL SENSOR



| NO. | PART NUMBER | DESCRIPTION | QTY. |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------|------|
| TOLERANCES UNLESS SPECIFIED: DECIMAL XX ± .008 DECIMAL XX ± .010 DECIMAL XX ± .030 FRACTION ± 1/64 ANGLE ± 1/2° | | | |
| DRAWN: ELS DATE: 3/11/99 | | TITLE: KE=43/CONN/D2000L MATERIAL: | |
| APPROVED: | | DRAWING NUMBER: MPM1141-489 SCALE: 1/2:1 | |

INTEK