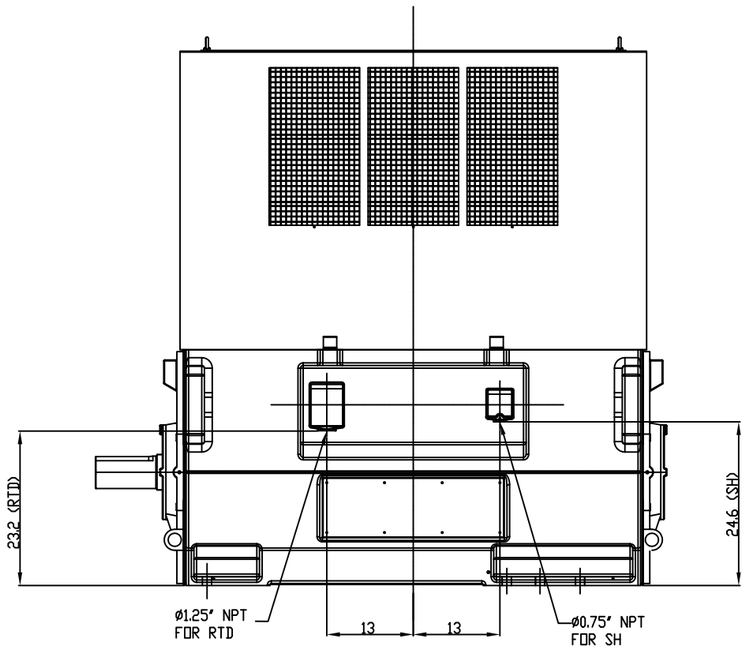


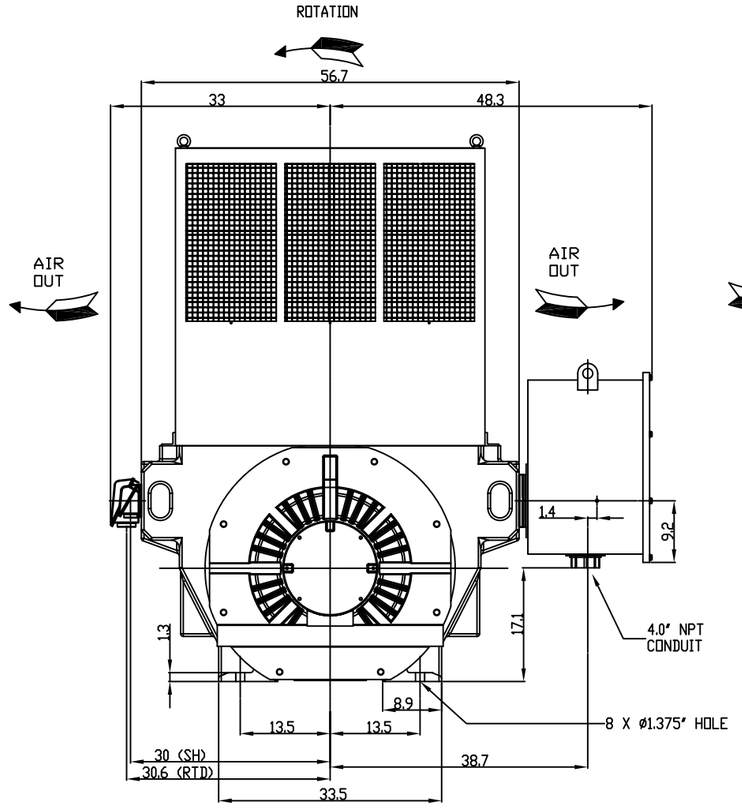


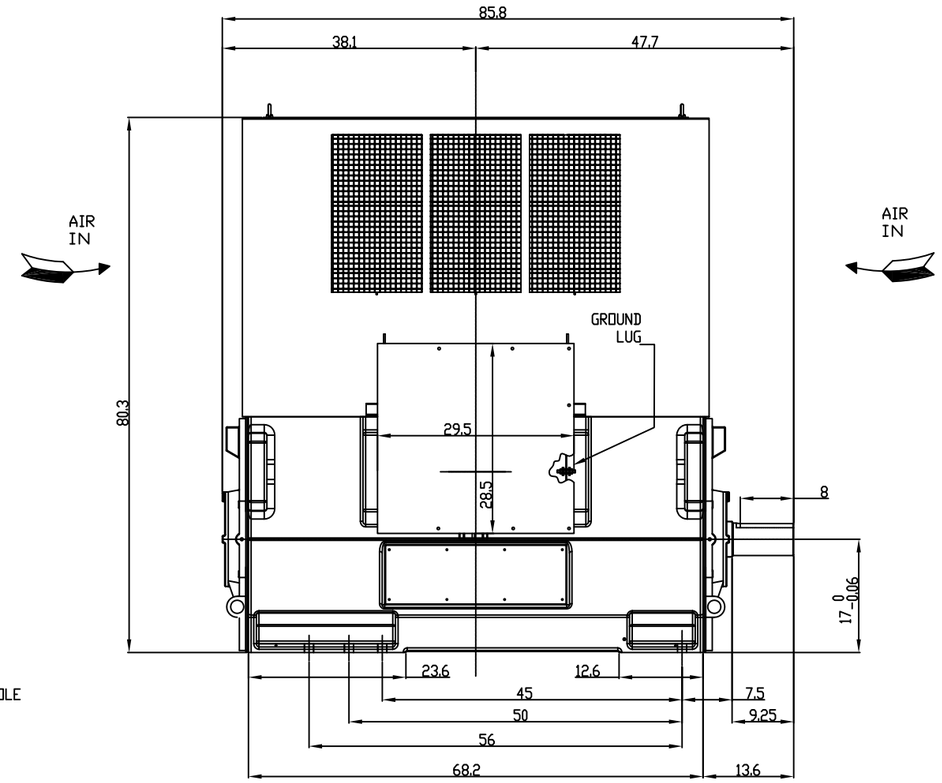


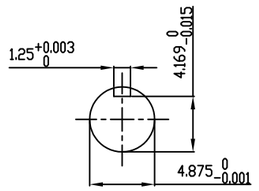


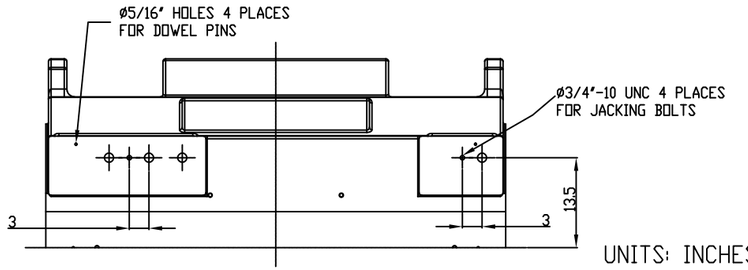


UNITS: INCHES

## TECHNICAL INFORMATION

1. BEARING LUBRICATION DE: MOBIL POLYREX EM OR EQUIVALENT
   ODE: MOBIL POLYREX EM OR EQUIVALENT
2. BEARING TYPE DE: 6328 INS
   ODE: 6328 INS
3. WINDING TEMP. DETECTORS
   NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)
   LOCATION: IN STATOR SLOT
4. BEARING TEMP. DETECTORS
   NUMBER AND TYPE: _____
5. SPACE HEATER 1 PHASE
   VOLTS: 120 WATTS: 800
6. ROTATION: CCW VIEWED FROM NON DRIVE END
   THIS MOTOR IS UNI DIRECTIONAL
7. MOTOR PAINT COLOR: GRAY
8. APPROX. WEIGHT: 14,000 Lbs
9. ACCESORIES:

PRELIMINARY
FOR QUOTATION ONLY
DO NOT BUILD
FROM THIS DRAWING

**DRAWING LIST**

MAIN TERMINAL BOX
130P-7550-68

| AUX TERMINAL BOX FOR | |
|---|---|
| SPACE HEATER | 130-7520-50 |
| R.T.D. | 130-7522-51 |
| THERMISTOR | N/A |
| PRODUCTION # | N/A |

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 0 | FIRST ISSUE | RC | 06/16/14 |

# MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR

| CUSTOMER NAME | | | | P.O. NO. | MOTOR TAG NO. | |
|---|---|---|---|---|---|---|
| | | | | | | |
| **OUTPUT** | **POLE** | **VOLTAGE** | **FREQUENCY** | **FULL LOAD SPEED** | **TOSHIBA MODEL NO.** | |
| HP | 4 | V | Hz | ($min^{-1}$) | | |
| **TYPE** | **FORM** | **INS. CLASS** | **RATING** | **FRAME** | **S.F.** | **ENCLOSURE** |
| | | F | CONT. | 6810US | | WP-I |

TOSHIBA INTERNATIONAL CORPORATION
HOUSTON, TEXAS U.S.A.

| 3rd ANGLE PROJ. | PREPARED BY: | DATE: | CHECKED BY: | DATE: | DRAWING NO.: | REV. |
|---|---|---|---|---|---|---|
| | R. CANTU | 06/16/14 | | | MDSL0086-62 | 0 |

| Issued Date | 4/23/2015 | Transmit # | |
|---|---|---|---|
| Issued By | dschoeck | Issued Rev | |

TOSHIBA
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# TYPICAL MOTOR PERFORMANCE DATA

**Model:** M505WPAL11E-C

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 2500 | 1865 | 4 | 1780 | 6810US | 4000 | 60 | 3 | 309 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| WP-I | 23 | F | 1.15 | CONT | 96.3 | - | F | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| Full Load | 2500 | 1864.3 | 308.8 | 96.3 | 90.5 |
| ¾ Load | 1875.00 | 1398.2 | 231.9 | 96.2 | 90.4 |
| ½ Load | 1250.00 | 932.1 | 160.7 | 95.7 | 87.5 |
| ¼ Load | 625.00 | 466.1 | 97.8 | 93.5 | 73.6 |
| No Load | | | 52.6 | | 4.5 |
| Locked Rotor | | | 1865.30 | | 16.3 |

| Torque | | | | Rotor wk² Inertia |
|---|---|---|---|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | (lb-ft²) |
| 7377 | 70 | 80 | 225 | 1143.40 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|---|---|---|---|---|---|
| Cold | Hot | | DE | NDE | |
| 35 | 15 | - | 6328C3 INS | 6328C3 INS | |

*Bearings are the only recommended spare part(s).

**Motor Options:**
Mounting:Footed,Shaft:US Shaft

| | |
|---|---|
| Customer | |
| Customer PO | |
| Sales Order | |
| Project # | |

**Tag:**

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
|---|---|---|---|---|---|
| Engr. Date | 7/10/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

| | | | |
|---|---|---|---|
| Issued Date | 4/23/2015 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

TOSHIBA
Leading Innovation >>>

# SPEED TORQUE/CURRENT CURVE

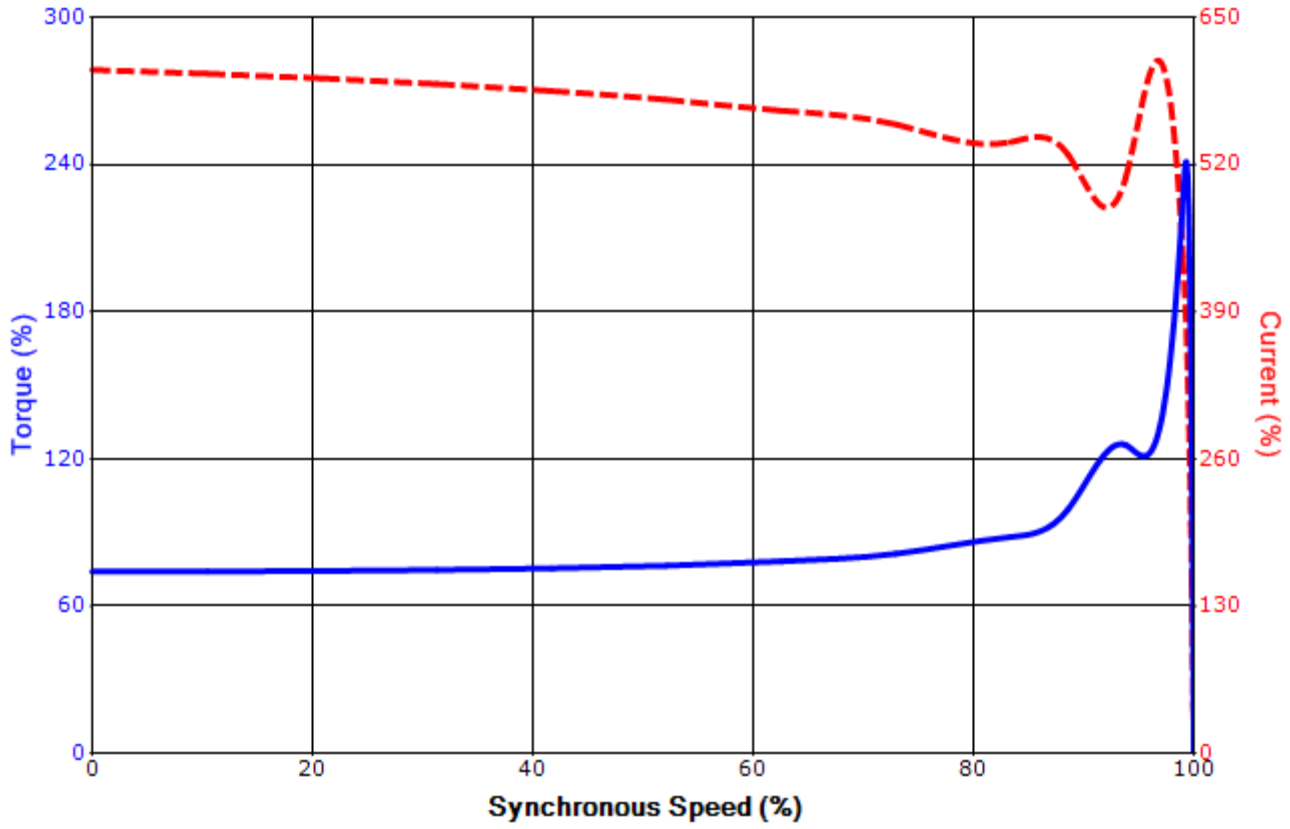
**Model:** M505WPAL11E-C

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 2500 | 1865 | 4 | 1780 | 6810US | 4000 | 60 | 3 | 309 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| WP-I | 23 | F | 1.15 | CONT | 96.3 | - | F | 40 C |

| Locked Rotor Amps | Rotor wk² Inertia (lb-ft²) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 1865.30 | 1143.40 | 7377 | 70 | 80 | 225 |

## Design Values




| | | | | |
|---|---|---|---|---|
| Customer | | wk² Load Inertia (lb-ft²) | - | |
| Customer PO | | Load Type | - | |
| Sales Order | | Voltage (%) | 100 | |
| Project # | | Accel. Time | - | |

**Tag:**

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

| | | | | | |
|---|---|---|---|---|---|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 7/10/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |