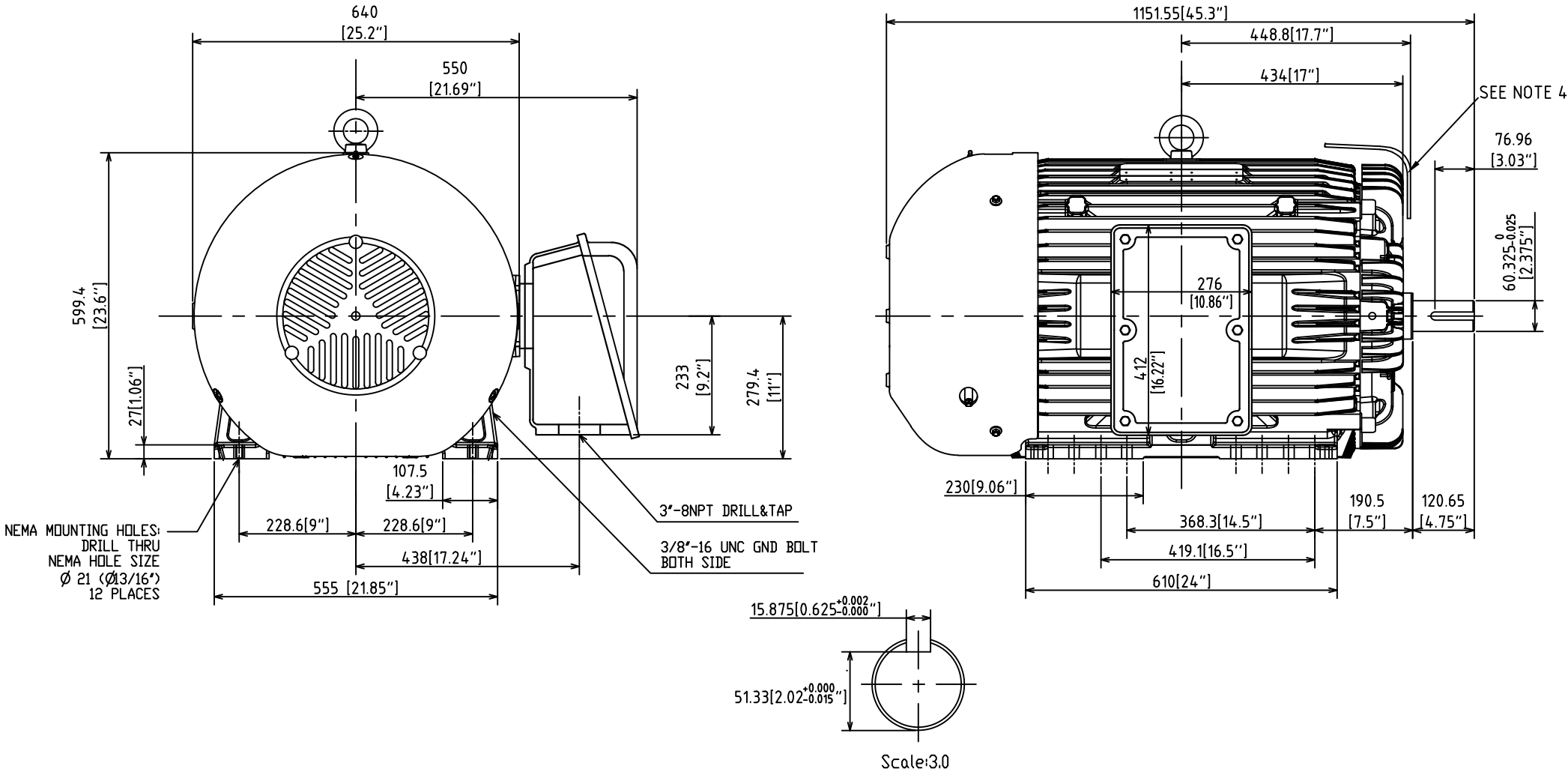


| UNITS: INCHES | NOTES: |
|---|---|
| ROTATION FROM NDE | 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS |
| [X] CCW [ ] CW | 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE. |
| | 3. KEY DIMENSIONS EQUAL 5/8"-5/8"-3" (MOTOR SUPPLIED WITH KEY) |
| | 4. AIR DEFLECTOR TO BE USED ON 2P-150HP & 2P 125HP MOTORS |

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE [ ] PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED [X] CERTIFIED

TOSHIBA

PETRO-CHEMICAL DUTY EQP Global 841

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TOSHIBA INTERNATIONAL CORPORATION

# TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNT 3 PHASE INDUCTION MOTOR S444/5TS F1 ASSEMBLY

DRAWING #: MDSLV702-11

REV. DATE: 03/16/23 REV. #: 0 PER.: S.NGO

REV. DESCRIP.: ADD AIR DEFLECTOR

| Issued Date | 5/11/2023 | Transmit # | |
|---|---|---|---|
| Issued By | dschoeck | Issued Rev | |

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# TYPICAL MOTOR PERFORMANCE DATA

**Model:** 1502XDSB41B-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 150 | 110 | 2 | 3575 | S445TS | 460 | 60 | 3 | 166 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| TEFC | 56 | F | 1.15 | CONT | 95.0 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| Full Load | 150.00 | 111.9 | 166 | 95.8 | 88.3 |
| ¾ Load | 112.50 | 83.9 | 126 | 94.9 | 87.7 |
| ½ Load | 75.00 | 55.9 | 88 | 93.0 | 85.1 |
| ¼ Load | 37.50 | 28.0 | 54 | 87.3 | 73.8 |
| No Load | | | 44.9 | | |
| Locked Rotor | | | 1066 | | 24.1 |

| Torque | | | | Rotor wk² Inertia |
|---|---|---|---|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | (lb-ft²) |
| 220 | 155 | 105 | 255 | 43.88 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|---|---|---|---|---|---|
| Cold | Hot | | DE | NDE | |
| 35 | 13 | 84 | 6313C3 | 6313C3 | |

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

**Motor Options:**
Product Family:EQP Global 841
Mounting:Footed,Shaft:TS Shaft

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

**Tag:**

All characteristics are average expected values.

| | | | |
|---|---|---|---|
| Issued Date | 5/11/2023 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

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# SPEED TORQUE/CURRENT CURVE

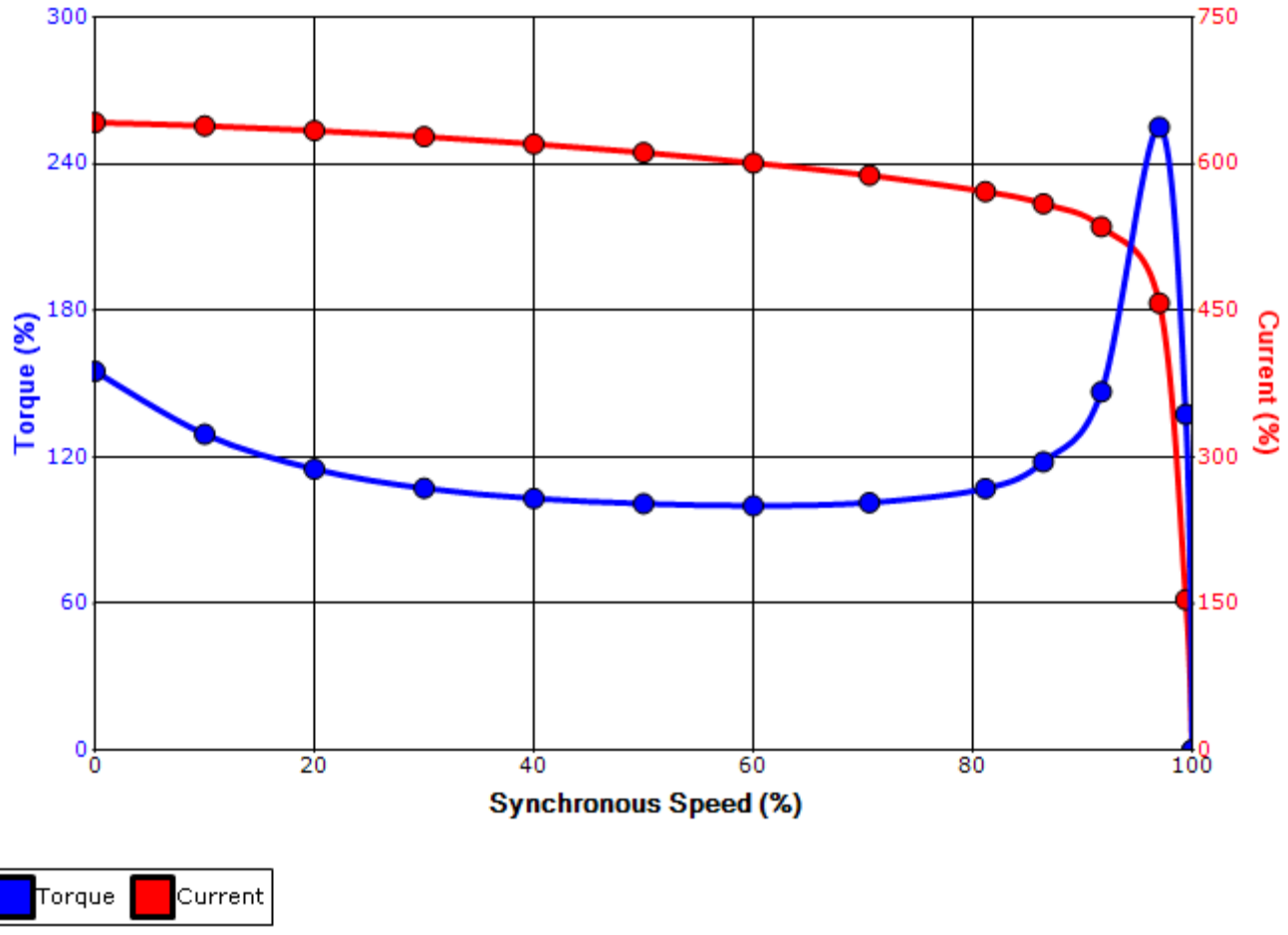
**Model:** 1502XDSB41B-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 150 | 110 | 2 | 3575 | S445TS | 460 | 60 | 3 | 166 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| TEFC | 56 | F | 1.15 | CONT | 95.0 | B | | 40 C |

| Locked Rotor Amps | Rotor wk² Inertia (lb-ft²) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 1066 | 43.88 | 220 | 155 | 105 | 255 |

## Design Values




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

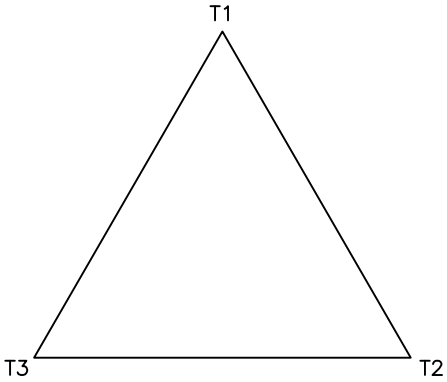
**Tag:**

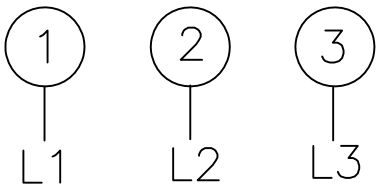
All characteristics are average expected values.

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

| | | | | | |
|---|---|---|---|---|---|
| Engineering | mcampbell | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 11/8/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

# Motor Connection Diagram
## 3 Leads - Delta Connection




Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.
If multiple cables represent a single lead, each one of them will be labeled with the appropriate lead number.