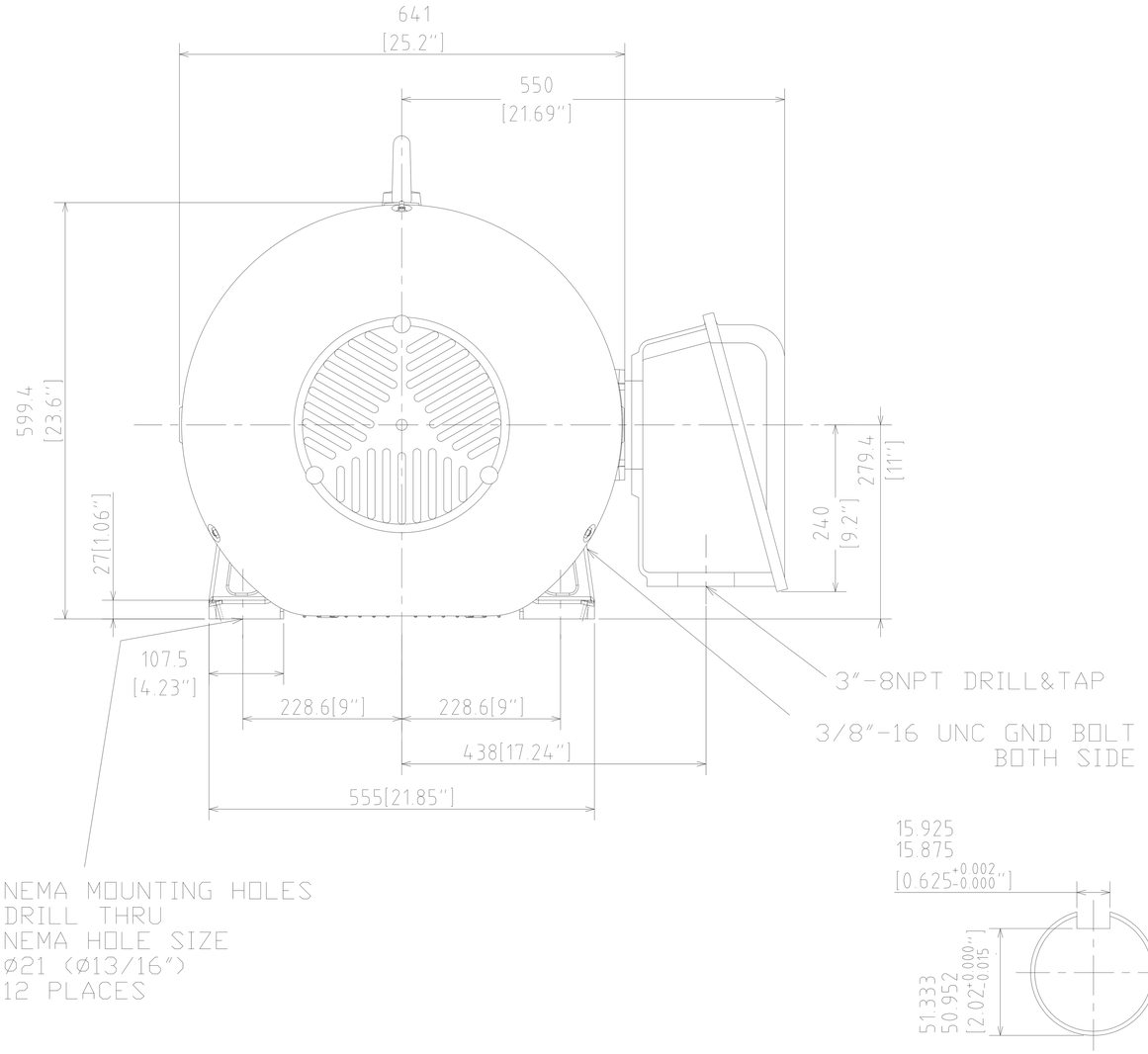


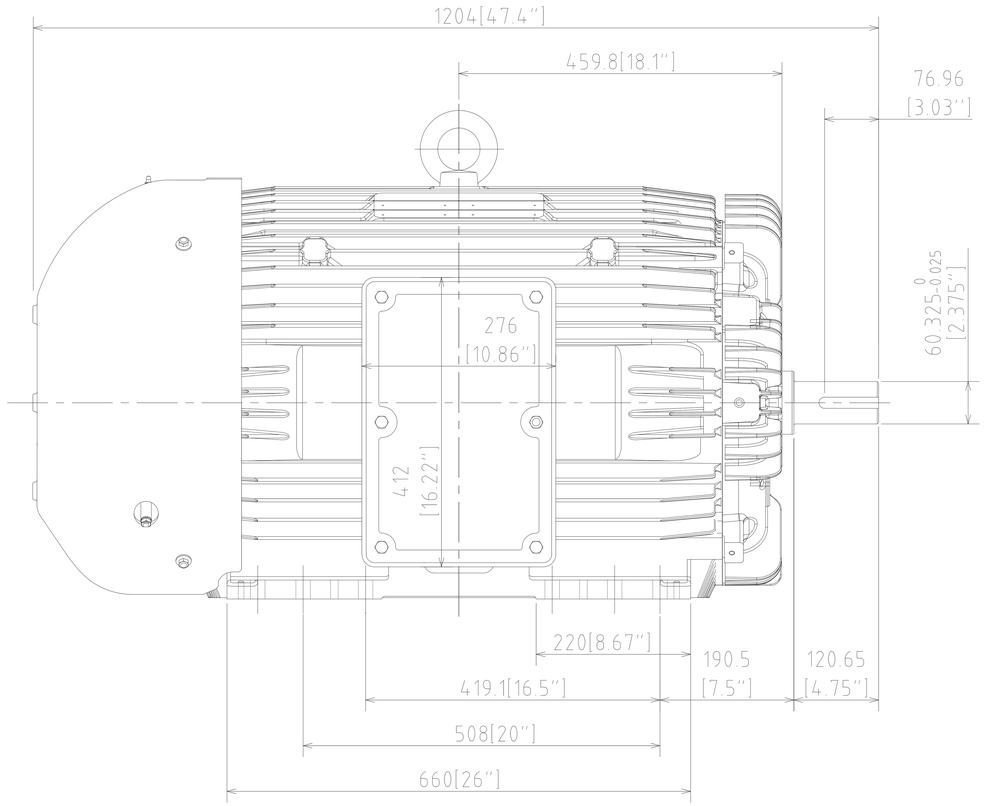


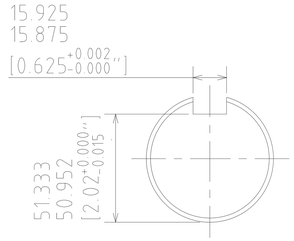


UNITS: INCHES

ROTATION FROM NDE

[X] CCW [ ] CW

NOTES:

1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
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)

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

SEVERE DUTY EQP Global SD

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TOSHIBA INTERNATIONAL CORPORATION

# TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNT 3 PHASE INDUCTION MOTOR S445/7TS F1 ASSEMBLY

DRAWING #: MDSLV700-12

REV. DATE: Nov-22-18 REV. #: ___ PER.: MAI HUYEN

REV. DESCRIP.:

| Issued Date | 1/21/2025 | Transmit # | |
|---|---|---|---|
| Issued By | dschoeck | Issued Rev | |

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# TYPICAL MOTOR PERFORMANCE DATA

**Model:** 2002SDSC41B-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 200 | 150 | 2 | 3580 | S447T | 575 | 60 | 3 | 178 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| TEFC | 55 | F | 1.15 | CONT | 95.4 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| Full Load | 200.00 | 149.1 | 177 | 96.1 | 87.7 |
| ¾ Load | 150.00 | 111.9 | 136 | 95.1 | 86.3 |
| ½ Load | 100.00 | 74.6 | 98 | 93.0 | 81.8 |
| ¼ Load | 50.00 | 37.3 | 64 | 87.1 | 67.2 |
| No Load | | | 48.1 | | 7.3 |
| Locked Rotor | | | 1182 | | 23.9 |

| Torque | | | | Rotor wk² Inertia |
|---|---|---|---|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | (lb-ft²) |
| 293 | 165 | 125 | 265 | 52.63 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|---|---|---|---|---|---|
| Cold | Hot | | DE | NDE | |
| 25 | 11 | 87 | 6313C3 | 6313C3 | |

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

**Motor Options:**
Product Family:EQP Global SD
Mounting:Footed,Shaft:T 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 | 9/4/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

| | | | |
|---|---|---|---|
| Issued Date | 1/21/2025 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

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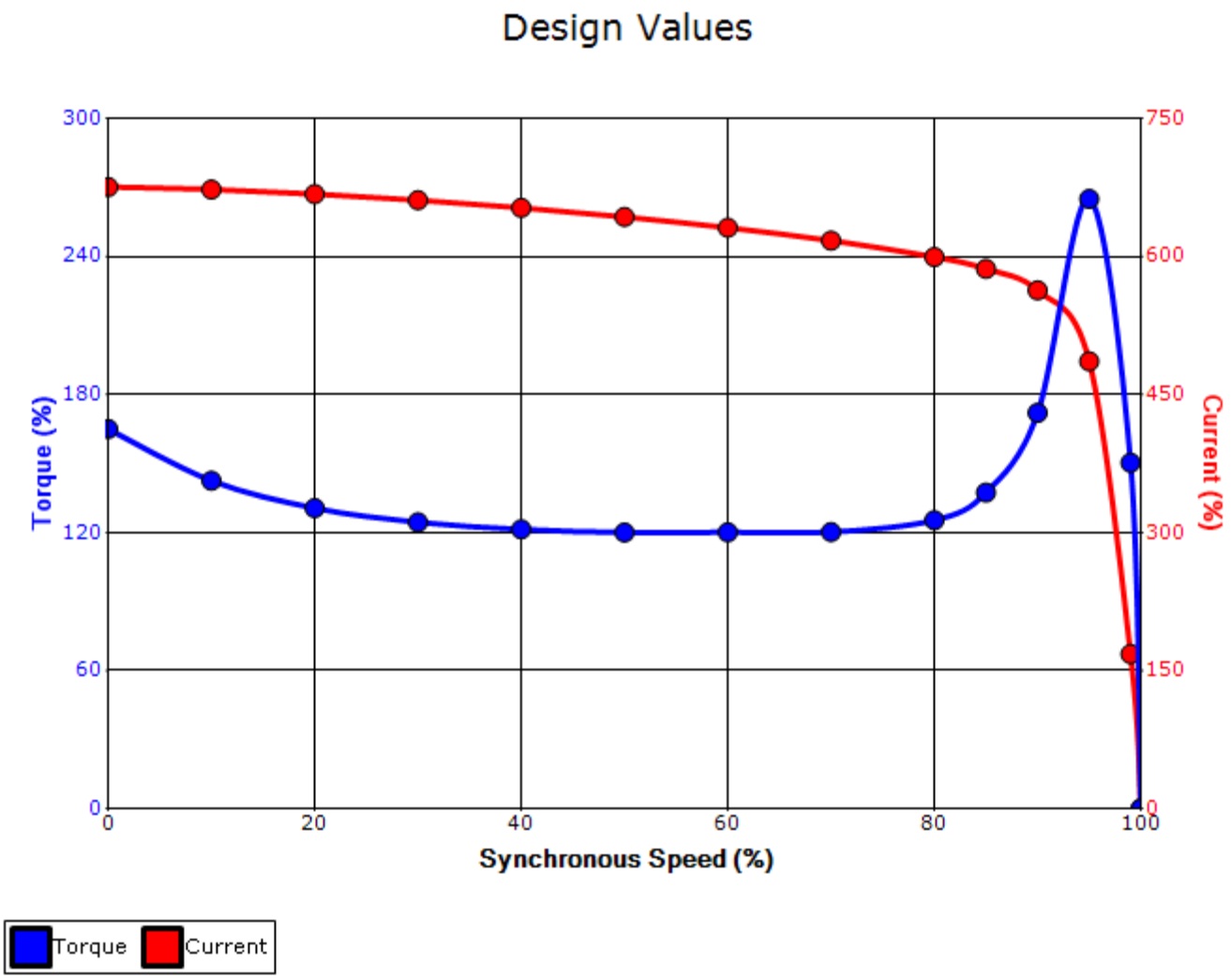
# SPEED TORQUE/CURRENT CURVE

**Model:** 2002SDSC41B-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 200 | 150 | 2 | 3580 | S447T | 575 | 60 | 3 | 178 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| TEFC | 55 | F | 1.15 | CONT | 95.4 | B | | 40 C |

| Locked Rotor Amps | Rotor wk² Inertia (lb-ft²) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 1182 | 52.63 | 293 | 165 | 125 | 265 |




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

**Tag:**

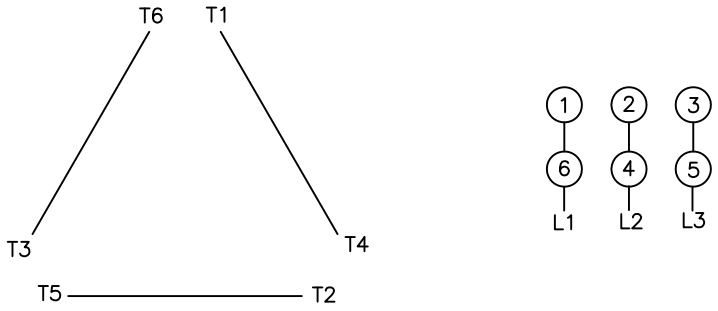
All characteristics are average expected values.

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

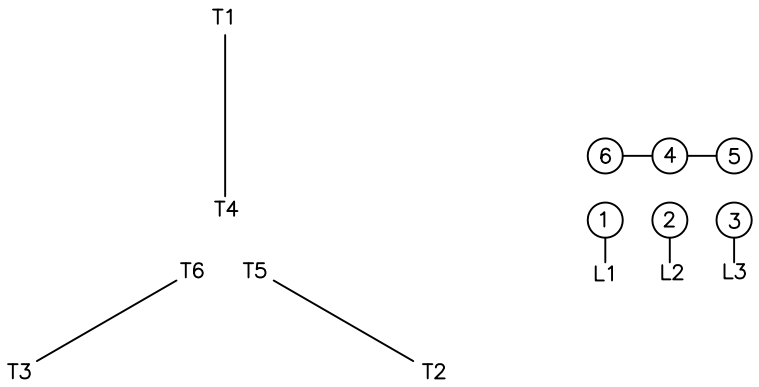
| | | | | | |
|---|---|---|---|---|---|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 9/4/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

# Motor Connection Diagrams
## 6 Leads

Across the Line Starting / Run - Delta:




Alternate Starting Connection - Wye:




Switch L1 and L2 to reverse rotation