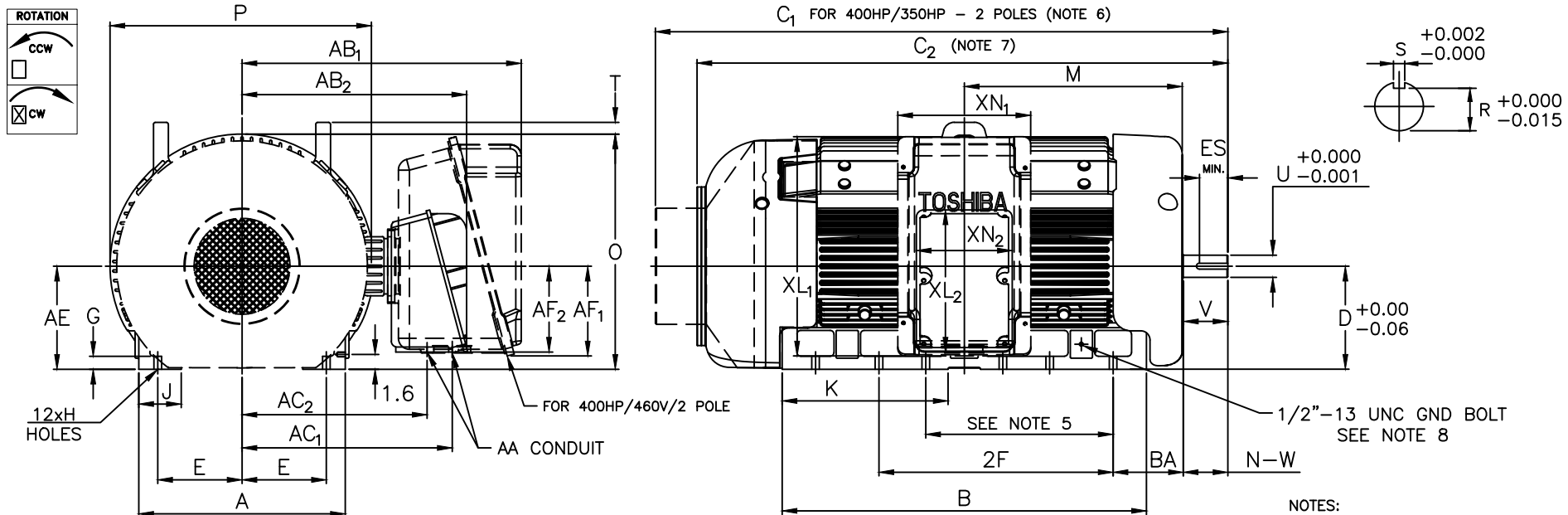




UNITS: INCHES

| FRAME<br>SIZE | MOTOR DIMENSIONS |      |                |                |       |     |     |      |      |      |      |     |
|---------------|------------------|------|----------------|----------------|-------|-----|-----|------|------|------|------|-----|
|               | A                | B    | C <sub>1</sub> | C <sub>2</sub> | D     | G   | J   | K    | M    | O    | P    | T   |
| B447TS/B449TS | 22.0             | 38.9 | 61.1           | 56.7           | 11.00 | 1.4 | 4.5 | 17.7 | 23.3 | 25.1 | 27.9 | 1.3 |

| FRAME<br>SIZE | CONDUIT BOX |                 |                 |                 |                 |       |                 |                 |                 |                 |                 |                 |
|---------------|-------------|-----------------|-----------------|-----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|               | AA[NPT]     | AB <sub>1</sub> | AB <sub>2</sub> | AC <sub>1</sub> | AC <sub>2</sub> | AE    | AF <sub>1</sub> | AF <sub>2</sub> | XL <sub>1</sub> | XL <sub>2</sub> | XN <sub>1</sub> | XN <sub>2</sub> |
| B447TS/B449TS | 4.00        | 29.8            | 23.8            | 22.4            | 19.6            | 11.00 | 9.6             | 9.1             | 23.4            | 15.2            | 14.2            | 10.2            |

| FRAME<br>SIZE | MOUNTING |             |      |      | SHAFT EXTENSION |      |       | KEY SEAT |       |      | BEARINGS |        | MAXIMUM<br>WEIGHT |
|---------------|----------|-------------|------|------|-----------------|------|-------|----------|-------|------|----------|--------|-------------------|
|               | E        | 2F          | H    | BA   | N-W             | V    | U     | R        | S     | ES   | LS       | OS     |                   |
| B447TS/B449TS | 9.00     | 20.00/25.00 | 0.81 | 7.50 | 4.75            | 4.50 | 2.375 | 2.021    | 0.625 | 3.03 | 6313C3   | 6313C3 | 4000 lbs          |

NOTES:

1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT IN 90° INCREMENTS
2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
3. KEY DIMENSIONS EQUAL S x S x 3.00 (MOTOR SUPPLIED WITH KEY).
4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
5. THIS DIMENSION EQUALS 2F FOR B447T MOUNTING.
6. 400HP/350HP 2 POLE STANDARD PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE.
7. 300HP/250HP 2 POLE STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE BY CONNECTION CHANGE.
8. FRAME GROUND BOLT STANDARD ON 841 PRODUCT.

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: TEFC EQP III SD & 841

COMMENTS: \_\_\_\_\_

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TAG NO's: \_\_\_\_\_

- ☒ STANDARD (NO AUX. BOXES)
- ☐ RTD AUX. BOX
- ☐ SPACE HEATER AUX. BOX
- ☐ BEARING RTD's

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**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED  
HORIZONTAL FOOT-MOUNTED  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

**XT SERIES**

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# TYPICAL MOTOR PERFORMANCE DATA

Model: 3501SDSB41B

| HP        | kW  | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| 350       | 261 | 2          | 3585   | B449TS | 460            | 60          | 3        | 380          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54  | F          | 1.15   | CONT   | 95.8           | B           |          | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 350.00 | 261.0 | 380     | 95.8           | 90.0             |
| ¾ Load       | 262.50 | 195.7 | 290     | 94.9           | 89.1             |
| ½ Load       | 175.00 | 130.5 | 205     | 92.9           | 85.8             |
| ¼ Load       | 87.50  | 65.2  | 129     | 86.9           | 72.8             |
| No Load      |        |       | 87.0    |                | 6.5              |
| Locked Rotor |        |       | 2550    |                | 23.4             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 513               | 160                  | 115             | 240                | 140.06                     |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | 85                        | 6313C3    | 6313C3 |                            |

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

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

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

Tag:

All characteristics are average expected values.

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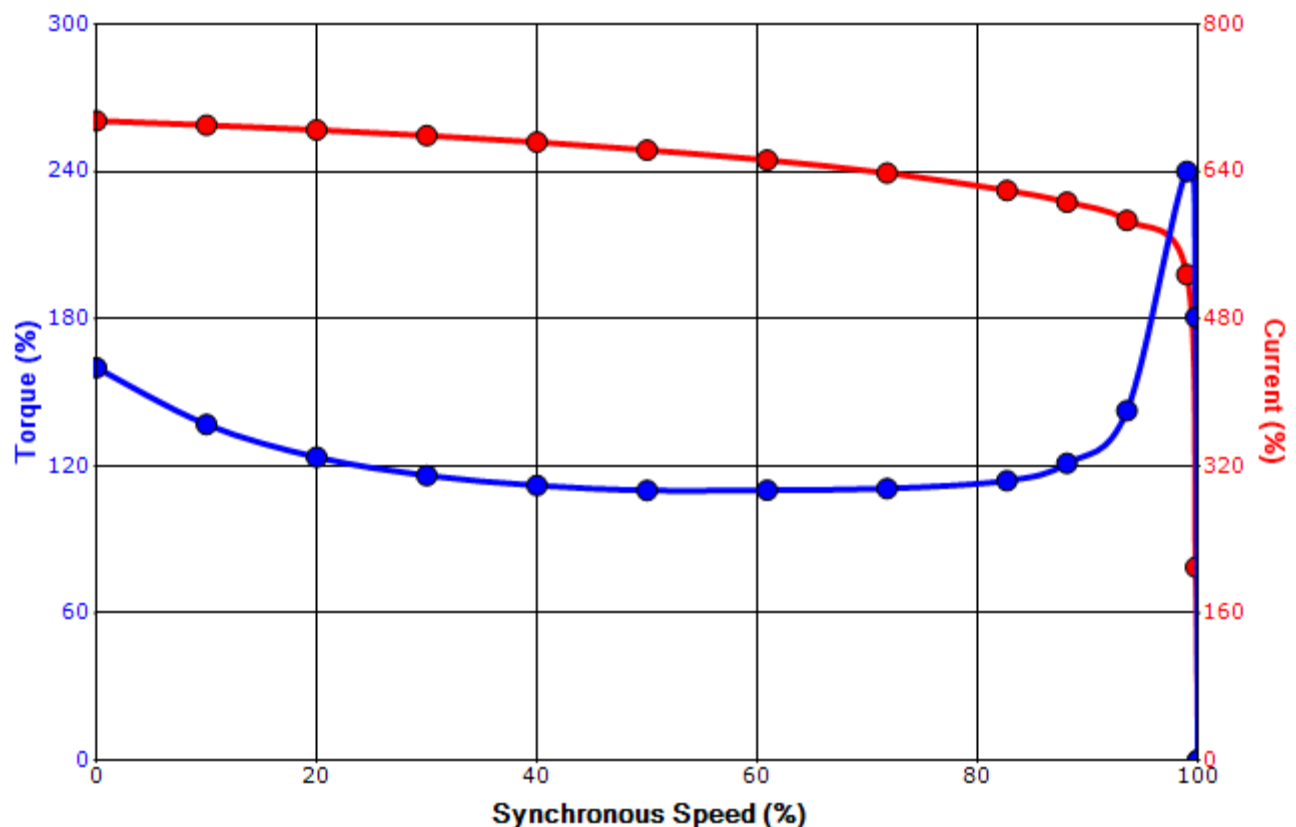
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie      | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 1/10/2022 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 3501SDSB41B

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 350               | 261                                                 | 2                 | 3585             | B449TS      | 460            | 60             | 3        | 380          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 54                                                  | F                 | 1.15             | CONT        | 95.8           | B              |          | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |                |          |              |
|                   |                                                     | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                | Break Down (%) |          |              |
| 2550              | 140.06                                              | 513               | 160              | 115         |                | 240            |          |              |

### Design Values



|             |  |                                                    |     |
|-------------|--|----------------------------------------------------|-----|
| Customer    |  | wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> ) | -   |
| Customer PO |  | Load Type                                          | -   |
| Sales Order |  | Voltage (%)                                        | 100 |
| Project #   |  | Accel. Time                                        | -   |

Tag:

All characteristics are average expected values.

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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie      | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 1/10/2022 | 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