



NOTES:

1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
3. KEY DIMENSIONS EQUAL S x S x 6.88 (MOTOR SUPPLIED WITH KEY)
4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
5. THIS DIMENSION EQUALS 2F FOR S447T MOUNTING
6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
7. FRAME GROUND BOLT STANDARD ON 841 PRODUCT

UNITS: INCHES

| FRAME SIZE  | MOTOR DIMENSIONS |      |      |       |     |     |      |      |      |      |     | CONDUIT BOX |      |      |       |     |      |      |
|-------------|------------------|------|------|-------|-----|-----|------|------|------|------|-----|-------------|------|------|-------|-----|------|------|
|             | A                | B    | C    | D     | G   | J   | K    | M    | O    | P    | T   | AA[NPT]     | AB   | AC   | AE    | AF  | XL   | XN   |
| S447T/S449T | 22.0             | 34.0 | 55.5 | 11.00 | 1.4 | 4.5 | 15.3 | 20.8 | 25.0 | 27.9 | 1.3 | 4.00        | 23.8 | 19.6 | 11.00 | 9.1 | 15.2 | 10.2 |

| FRAME SIZE  | MOUNTING |             |      |      | SHAFT EXTENSION |      |       | KEY SEAT |       |      |           | BEARINGS     |            |         |        | MAXIMUM WEIGHT |
|-------------|----------|-------------|------|------|-----------------|------|-------|----------|-------|------|-----------|--------------|------------|---------|--------|----------------|
|             | E        | 2F          | H    | BA   | N-W             | V    | U     | R        | S     | ES   | LS ROLLER | LS BALL 6/8P | LS BALL 4P | OS 4~8P |        |                |
| S447T/S449T | 9.00     | 20.00/25.00 | 0.82 | 7.50 | 8.50            | 8.25 | 3.375 | 2.880    | 0.875 | 6.91 | NU322C3   | 6322C3       | 6318C3     | 6318C3  | XXX lb |                |

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

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  CERTIFIED

**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: 3004XSSB41A

|           |     |            |        |       |                |             |          |              |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 300       | 224 | 4          | 1785   | S449T | 460            | 60          | 3        | 345          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 96.2           | B           |          | 40 C         |

|              |        |       |         |                |                  |
|--------------|--------|-------|---------|----------------|------------------|
| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 300.00 | 223.7 | 344     | 96.3           | 84.6             |
| ¾ Load       | 225.00 | 167.8 | 263     | 95.7           | 83.4             |
| ½ Load       | 150.00 | 111.9 | 189     | 94.1           | 78.9             |
| ¼ Load       | 75.00  | 55.9  | 124     | 89.2           | 63.0             |
| No Load      |        |       | 104.3   |                | 3.4              |
| Locked Rotor |        |       | 2123    |                | 25.7             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque            |                      |                 |                    | Rotor wk <sup>2</sup>         |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft <sup>2</sup> ) |
| 883               | 170                  | 145             | 235                | 142.02                        |

|                    |     |                           |              |              |                            |
|--------------------|-----|---------------------------|--------------|--------------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings*    |              | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE           | NDE          |                            |
| 31                 | 7   | -                         | 6308ZZC3 INS | 6308ZZC3 INS |                            |

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

Motor Options:  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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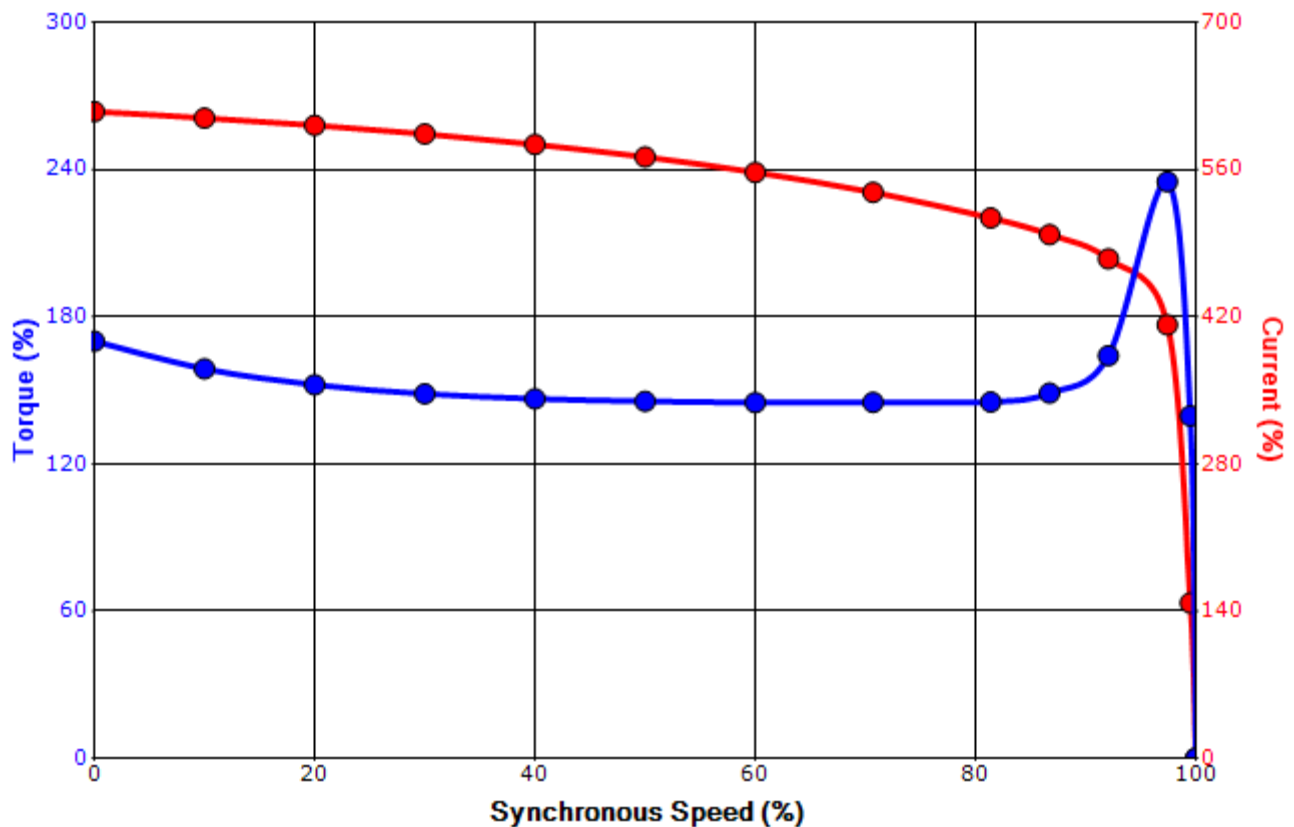
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie      | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/28/2020 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: 3004XSSB41A

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 300               | 224   | 4                 | 1785             | S449T       | 460            | 60          | 3        | 345            |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 56  | F                 | 1.15             | CONT        | 96.2           | B           |          | 40 C           |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          | Break Down (%) |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                |             |          |                |
| 2123              | 142.02  | 883               | 170              | 145         |                |             | 235      |                |

**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  | 7/28/2020 | 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.