

UNITS: INCHES

| Γ | FRAME       |      |      |      |       | MOTO | OR DIM | ENSION | IS   |      |      |     |         |      | CC   | DNDUIT | BOX |      |      |
|---|-------------|------|------|------|-------|------|--------|--------|------|------|------|-----|---------|------|------|--------|-----|------|------|
| L | SIZE        | Α    | В    | O    | D     | G    | 7      | K      | М    | 0    | Р    | Т   | 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 |

| ſ | FRAME       |      | MOUNTIN     | IG   |      | SHA  | T EXT | ENSION | ŀ     | KEY SEA | AT.  | BEARINGS  |              |            | MAXIMUM |        |
|---|-------------|------|-------------|------|------|------|-------|--------|-------|---------|------|-----------|--------------|------------|---------|--------|
| L | SIZE        | E    | 2F          | Ι    | BA   | N-W  | ٧     | U      | R     | S       | ES   | LS ROLLER | LS BALL 6/8P | LS BALL 4P | OS 4~8P | WEIGHT |
|   | 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 Ib |

- 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

| CUSTOMER: MOTOR MODEL NO.:                                                                        | TAG NO's.:            |                    |
|---------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| P.O. NO.: HP: VOLTAGE: RPM(SYN.): Hz: FRAME SIZE: PRODUCT TYPE: TEFC_ EQP_ III SD & 841 COMMENTS: | :<br>:<br>:<br>:<br>: | <ul><li></li></ul> |
| PER: DATE:                                                                                        | :                     |                    |

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TOSHIBA INTERNATIONAL CORPORATION

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

### XT SERIES

VISIT OUR WEBSITE AT: www.toshiba.com/ind



| Issued Date | 6/28/2024 | Transmit # |  |
|-------------|-----------|------------|--|
| Issued By   | dschoeck  | Issued Rev |  |

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: 3004XDSB41A-R

| 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<br>Nom. Eff. | NEMA<br>Design | kVA Code | Ambient<br>(°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 96.2              | В              |          | 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             |
| ∕₄ Load      | 75.00  | 55.9  | 124     | 89.2           | 63.0             |
| No Load      |        |       | 104.3   |                | 3.4              |
| Locked Rotor |        |       | 2123    |                | 25.7             |

| Torque    |              |         |            |          |  |  |  |  |
|-----------|--------------|---------|------------|----------|--|--|--|--|
| Full Load | Locked Rotor | Pull Up | Break Down | Inertia  |  |  |  |  |
| (lb-ft)   | (% FLT)      | (% FLT) | (% FLT)    | (lb-ft²) |  |  |  |  |
| 883       | 170          | 145     | 235        | 142.02   |  |  |  |  |

|  | Safe Stall Time(s)  Cold Hot |      | Sound      | Bearin  | Approx. Motor Weight |       |  |
|--|------------------------------|------|------------|---------|----------------------|-------|--|
|  |                              |      | Pressure   | Bearin  |                      |       |  |
|  | Colu                         | 1100 | dB(A) @ 1M | DE      | NDE                  | (lbs) |  |
|  | 31                           | 7    | 81         | NU322C3 | 6318C3               |       |  |

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

Motor Options: Product Family:EQP Global 841 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 | 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      |  |  |  |  |  |  |



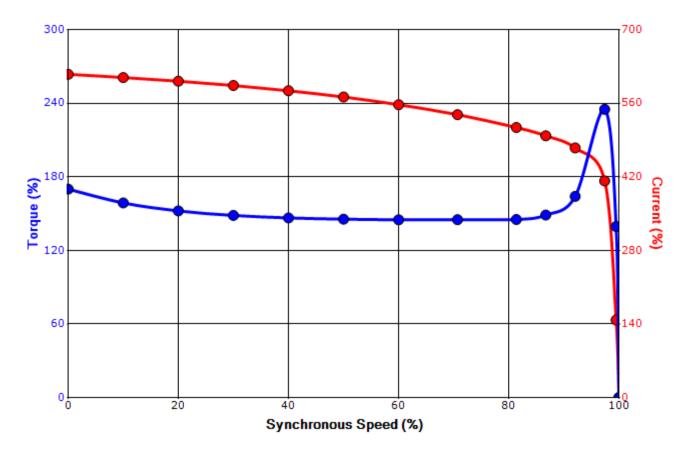
| Issued Date | 6/28/2024 | Transmit # |  |
|-------------|-----------|------------|--|
| Issued By   | dschoeck  | Issued Rev |  |

#### SPEED TORQUE/CURRENT CURVE

Model: 3004XDSB41A-R

| 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<br>Nom. Eff. | NEMA<br>Design | kVA Code   | Ambient<br>(°C) |  |  |
| TEFC                 | 56                    | F          | 1.15   | CONT       | 96.2              | В              |            | 40 C            |  |  |
| Looked Deter         | Rotor wk <sup>2</sup> | Torque     |        |            |                   |                |            |                 |  |  |
| Locked Rotor<br>Amps | Inertia               | Full Load  | Locked | Rotor      | Pull Up           |                | Break Down |                 |  |  |
| Allips               | (lb-ft²)              | (lb-ft)    | (%     | <b>6</b> ) | (%)               |                | (%)        |                 |  |  |
| 2123                 | 142.02                | 883        | 17     | 0          | 145               |                | 23         | 35              |  |  |

# Design Values





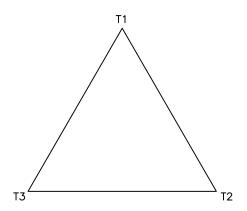
| Customer    | wk² Load Inertia (lb | ft²) -         |  |  |  |  |
|-------------|----------------------|----------------|--|--|--|--|
| Customer PO | Load T               | /pe -          |  |  |  |  |
| Sales Order | Voltage              | <b>(%)</b> 100 |  |  |  |  |
| Project #   | Accel. T             | me -           |  |  |  |  |

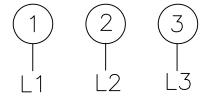
Tag:

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.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 0



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|--------------|-----------|-------------|--|
| Issued By:   | dschoeck  | Issued Rev: |  |

#### **SPARE PARTS LIST\***

Model: 3004XDSB41A-R

| 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<br>Nom. Eff. | NEMA<br>Design | kVA Code | Ambient<br>(°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 96.2              | В              |          | 40 C            |

 Bearings DE
 NU322C3 / 110RU03M3OX

 Bearings NDE
 6318C3 / 90BC03J3OX

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

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

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

Tag:

All characteristics are average expected values.

| TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A. |           |                  |             |             |               |  |  |  |
|-----------------------------------------------------------|-----------|------------------|-------------|-------------|---------------|--|--|--|
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