

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | | CONDUIT BOX DIMENSIONS | | | | | | |
|---------------|------------------|------|------|-------|-----|-----|------|------|------|------|-----|------------------------|------|----|-------|-----|------|------|
| | A | B | C | D | G | J | K | M | O | P | T | AA(NPT) | AB | AC | AE | AF | XL | XN |
| N447TS/N449TS | 22.0 | 36.6 | 56.5 | 11.00 | 1.4 | 4.5 | 14.6 | 22.4 | 24.8 | 27.3 | 3.2 | 3.00 | 27.0 | 21 | 11.00 | 7.2 | 15.3 | 14.7 |
| N447T/N449T | 22.0 | 36.6 | 60.3 | 11.00 | 1.4 | 4.5 | 14.6 | 22.4 | 24.8 | 27.3 | 3.2 | 3.00 | 27.0 | 21 | 11.00 | 7.2 | 15.3 | 14.7 |

| FRAME SIZE | MOUNTING | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | | | MAXIMUM WEIGHT | | |
|---------------|----------|-------------|------|-----------------|------|------|----------|-------|-------|----------|--------|--------|----------------|----------------|--------------|-----------|
| | E | 2F | H | BA | N-W | V | U | R | S | ES | LS 2P | OS 2P | LS ROLLER 4~8P | | LS BALL 4~8P | OS 4~8P |
| N447TS/N449TS | 9.00 | 20.00/25.00 | 0.81 | 7.50 | 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.03 | 6313C3 | 6313C3 | - | 6318C3 | 6318C3 | 4200 lbs. |
| N447T/N449T | 9.00 | 20.00/25.00 | 0.81 | 7.50 | 8.50 | 8.25 | 3.375 | 2.88 | 0.875 | 6.91 | - | - | NU318C3 | 6318C3 | 6318C3 | 4200 lbs. |

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 - KEY DIMENSIONS EQUAL S x S x 6.88 FOR 'T' AND S x S x 3.00 FOR 'TS' (MOTOR SUPPLIED WITH KEY).
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
 - STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE.
 - STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 - THIS DIMENSION EQUALS 2F FOR N447 MOUNTING

CUSTOMER: _____ MOTOR MODEL NO.: _____

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

FRAME SIZE: _____ PRODUCT TYPE: TEFC EXPLOSION PROOF; CLASS I GROUP D; CLASS II GROUPS E, F, G

COMMENTS: _____

PER: _____ DATE: _____

TAG NO's.:

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

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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

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

| | | | |
|-------------|-----------|------------|--|
| Issued Date | 12/1/2023 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

TYPICAL MOTOR PERFORMANCE DATA

Model: 3003XPEC41B

| | | | | | | | | |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 300 | 224 | 2 | 3583 | | 575 | 60 | 3 | 256 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | | F | 1.15 | CONT | 95.8 | A | | 40 C |

| | | | | | |
|--------------|--------|-------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 300.00 | 223.7 | 255 | 95.9 | 91.6 |
| ¾ Load | 225.00 | 167.8 | 195 | 94.8 | 90.8 |
| ½ Load | 150.00 | 111.9 | 138 | 92.6 | 87.8 |
| ¼ Load | 75.00 | 55.9 | 86 | 86.1 | 75.6 |
| No Load | | | 29.5 | | 11.5 |
| Locked Rotor | | | 1978 | | 25.5 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque | | | | Rotor wk ² |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft ²) |
| 440 | 195 | 155 | 325 | 116.14 |

| | | | | | |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 23 | 13 | - | 6313C3 | 6313C3 | 3900 |

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

Motor Options:
Product Family:EQP Global Explosion Proof

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrretaz | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 11/8/2023 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

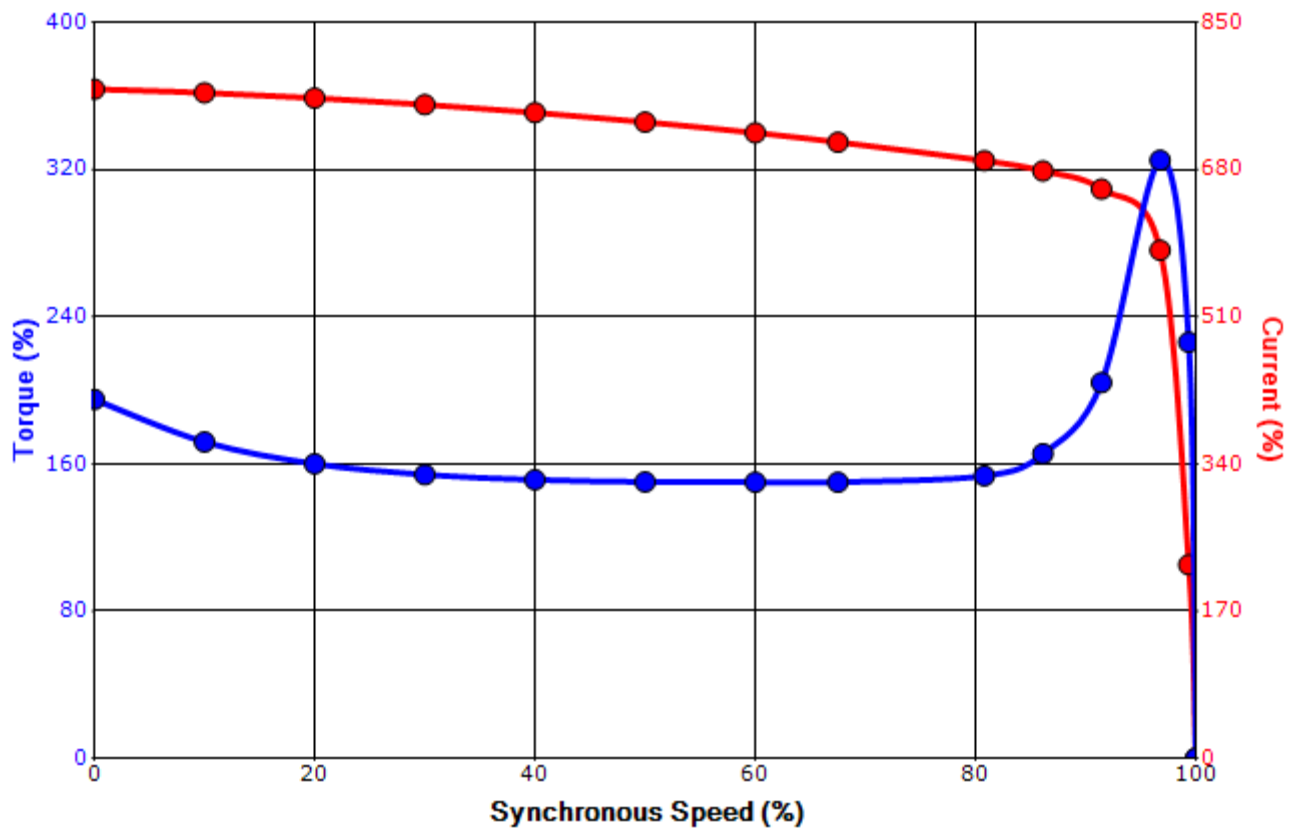
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|-------------|-----------|------------|--|
| Issued Date | 12/1/2023 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: 3003XPEC41B

| | | | | | | | | |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 300 | 224 | 2 | 3583 | | 575 | 60 | 3 | 256 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | | F | 1.15 | CONT | 95.8 | A | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 1978 | 116.14 | 440 | 195 | 155 | | | 325 | |

Design Values



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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrretaz | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 11/8/2023 | 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