

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | |
|---------------|------------------|------|------|-------|-----|-----|------|------|------|------|-----|
| | A | B | C | D | G | J | K | M | O | P | T |
| B447TS/B449TS | 22.0 | 38.9 | 56.8 | 11.00 | 1.4 | 4.5 | 17.7 | 23.3 | 25.1 | 27.9 | 1.3 |
| B447T/B449T | 22.0 | 38.9 | 60.5 | 11.00 | 1.4 | 4.5 | 17.7 | 23.3 | 25.1 | 27.9 | 1.3 |

| FRAME SIZE | CONDUIT BOX | | | | | | | | | | | |
|--------------------|-------------|-----------------|-----------------|-----------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | AA(NPT) | AB ₁ | AB ₂ | AC ₁ | AC ₂ | AE | AF ₁ | AF ₂ | XL ₁ | XL ₂ | XN ₁ | XN ₂ |
| B447/9T - B447/9TS | 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 SIZE | MOUNTING | | | | SHAFT EXTENSION | | | | KEY SEAT | | | | BEARINGS | | | | MAXIMUM WEIGHT |
|---------------|----------|-------------|------|------|-----------------|------|-------|-------|----------|------|-----------|--------------|------------|---------|-----------|--|----------------|
| | E | 2F | H | BA | N-W | V | U | R | S | ES | IS ROLLER | IS BALL 6/8P | IS BALL 4P | OS 4-8P | | | |
| B447TS/B449TS | 9.00 | 20.00/25.00 | 0.81 | 7.50 | 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.03 | - | 6318C3 | 6318C3 | 6318C3 | 4500 lbs. | | |
| B447T/B449T | 9.00 | 20.00/25.00 | 0.81 | 7.50 | 8.50 | 8.25 | 3.375 | 2.880 | 0.875 | 6.91 | NU322C3 | 6322C3 | 6318C3 | 6318C3 | 4500 lbs. | | |

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG NO's: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(STN.): _____ HZ: _____

FRAME SIZE: _____ PRODUCT TYPE: IEC EQP III SD & 841

COMMENTS: _____

PER: _____ DATE: _____

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

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

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 - *TS* KEY DIMENSIONS EQUAL S x S x 3.00 (*TS* KEY DIMENSIONS EQUAL S x S x 6.88 (MOTOR SUPPLIED WITH KEY))
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
 - THIS DIMENSION EQUALS 2F FOR B447T MOUNTING.
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 - FRAME GROUND BOLT STANDARD ON 841 PRODUCT.
 - ONLY FOR 400HP/4 POLE/460V & 350HP/6 POLE/460V MOTORS.

TOSHIBA

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

XT SERIES

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TOSHIBA INTERNATIONAL CORPORATION

TYPICAL MOTOR PERFORMANCE DATA

Model: 3506XDSC41A-R

| | | | | | | | | |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 350 | 261 | 6 | 1190 | B449T | 575 | 60 | 3 | 336 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.8 | A | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 350.00 | 261.0 | 335 | 95.8 | 81.5 |
| ¾ Load | 262.50 | 195.7 | 263 | 95.3 | 78.2 |
| ½ Load | 175.00 | 130.5 | 199 | 93.9 | 70.0 |
| ¼ Load | 87.50 | 65.2 | 149 | 89.4 | 49.1 |
| No Load | | | 128.8 | | 2.8 |
| Locked Rotor | | | 2250 | | 22.8 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 1545 | 165 | 105 | 260 | 214.13 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 35 | 15 | 82 | NU322C3 | 6318C3 | |

*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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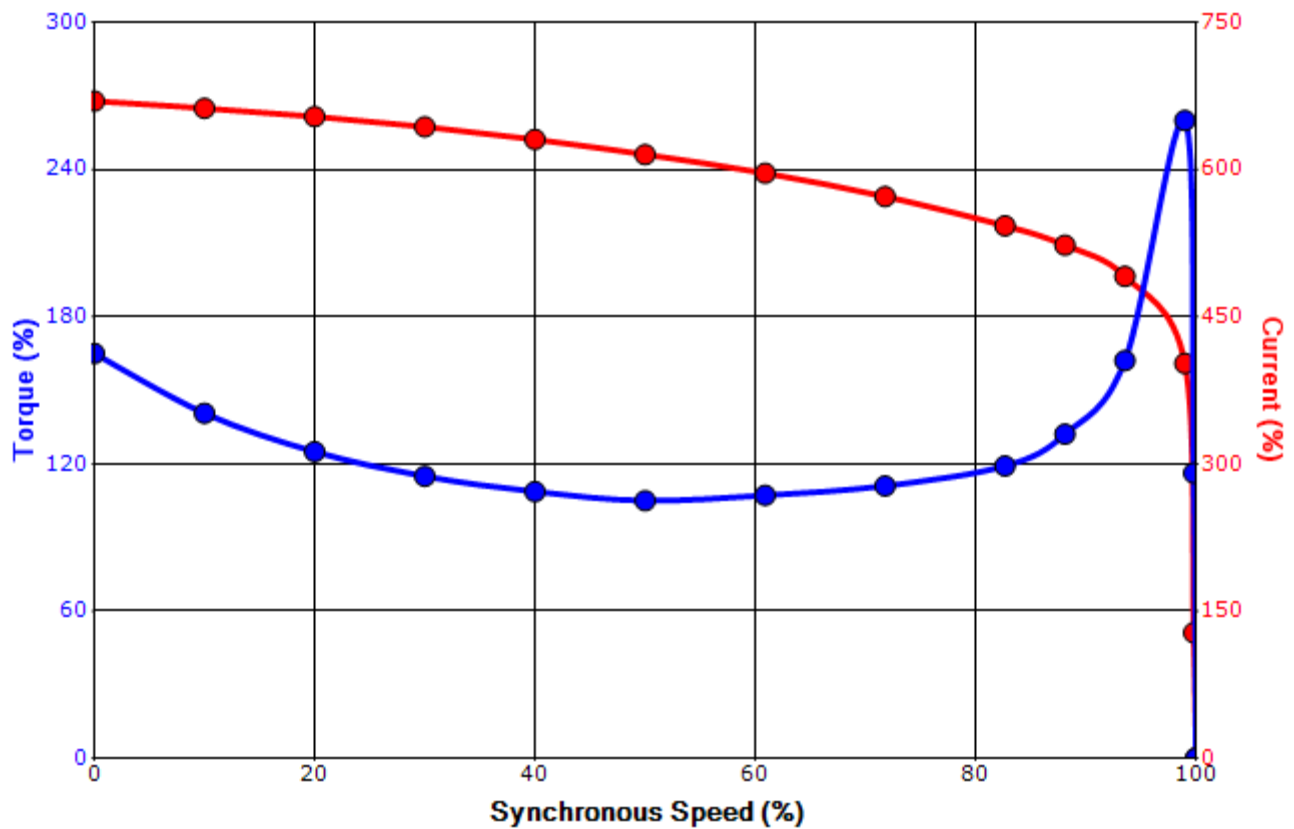
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|-------------|------------|------------------|-------------|-------------|---------------|
| Engineering | SSuryani | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 12/23/2019 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: 3506XDSC41A-R

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 350 | 261 | 6 | 1190 | B449T | 575 | 60 | 3 | 336 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | 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 (%) | | | | |
| 2250 | 214.13 | 1545 | 165 | 105 | | | 260 | |

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 | SSuryani | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 12/23/2019 | 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.