

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | CONDUIT BOX | | | | | | | | | |
|------------|------------------|-------|------|-------|--------|-------|-------|-------|-------|------|-----------------|--------|------|----------|------|-----------|----------|------|--|----------------|
| | A | B | C | D | G | J | K | M | O | P | T | AA | AB | AC | AE | AF | XL | XN | | |
| 447T | 22.1 | 19.3 | 43.2 | 11.00 | 1.2 | 4.4 | 4.8 | 17.3 | 22.5 | 22.0 | 3.6 | 3.00 | 21.6 | 16.5 | 14.2 | 8.7 | 15.7 | 11.5 | | |
| 447TZ | 22.1 | 19.3 | 44.9 | 11.00 | 1.2 | 4.4 | 4.8 | 17.3 | 22.5 | 22.0 | 3.6 | 3.00 | 21.6 | 16.5 | 14.2 | 8.7 | 15.7 | 11.5 | | |
| FRAME SIZE | MOUNTING | | | | | | | | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | | MAXIMUM WEIGHT |
| E | 2F | H | BA | N-W | V | U | R | S | ES | LS | OS | | | | | | | | | |
| 447T | 9.00 | 20.00 | 0.81 | 7.50 | 8.50 | 8.25 | 3.375 | 2.880 | 0.875 | 6.88 | NU318C3 | 6318C3 | | | | 1980 lbs. | | | | |
| 447TZ | 9.00 | 20.00 | 0.81 | 7.50 | 10.125 | 9.875 | 3.375 | 2.880 | 0.875 | 8.50 | NU318C3 | 6318C3 | | | | 1980 lbs. | | | | |

- 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 FOR T AND S x S x 8.50 FOR TZ (MOTOR SUPPLIED WITH KEY)
 4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 5. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

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

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

FRAME SIZE: _____ PRODUCT TYPE: ODP EQP III, EPACT, & HIGH EFFICIENCY

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

| | |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | STANDARD (NO AUX. BOXES) |
| <input type="checkbox"/> | RTD AUX. BOX |
| <input type="checkbox"/> | SPACE HEATER AUX. BOX |
| <input type="checkbox"/> | BEARING RTD's |

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

OPEN DRIP-PROOF
HORIZONTAL FOOT-MOUNTED
3 PHASE INDUCTION MOTOR
F1 ASSEMBLY

XT SERIES
VISIT OUR WEBSITE AT:
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| | | | |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

TYPICAL MOTOR PERFORMANCE DATA

Model: B2504VLF4OMH

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 250 | 186 | 4 | 1785 | 447T | 575 | 60 | 3 | 217 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP | 22 | F | 1.15 | CONT | 96.5 | B | G | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 250 | 186.4 | 217.0 | 96.4 | 89.8 |
| ¾ Load | 187.50 | 139.8 | 165.8 | 96.5 | 88.6 |
| ½ Load | 125.00 | 93.2 | 117.7 | 96.5 | 84.0 |
| ¼ Load | 62.50 | 46.6 | 76.3 | 92.2 | 66.5 |
| No Load | | | 47.0 | | 4.1 |
| Locked Rotor | | | 1460 | | 33.6 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 736 | 185 | 180 | 285 | 80.07 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 18 | 8 | - | NU318C3 | 6318C3 | 1721 |

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

Motor Options:
Product Family:ODP
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 5/22/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



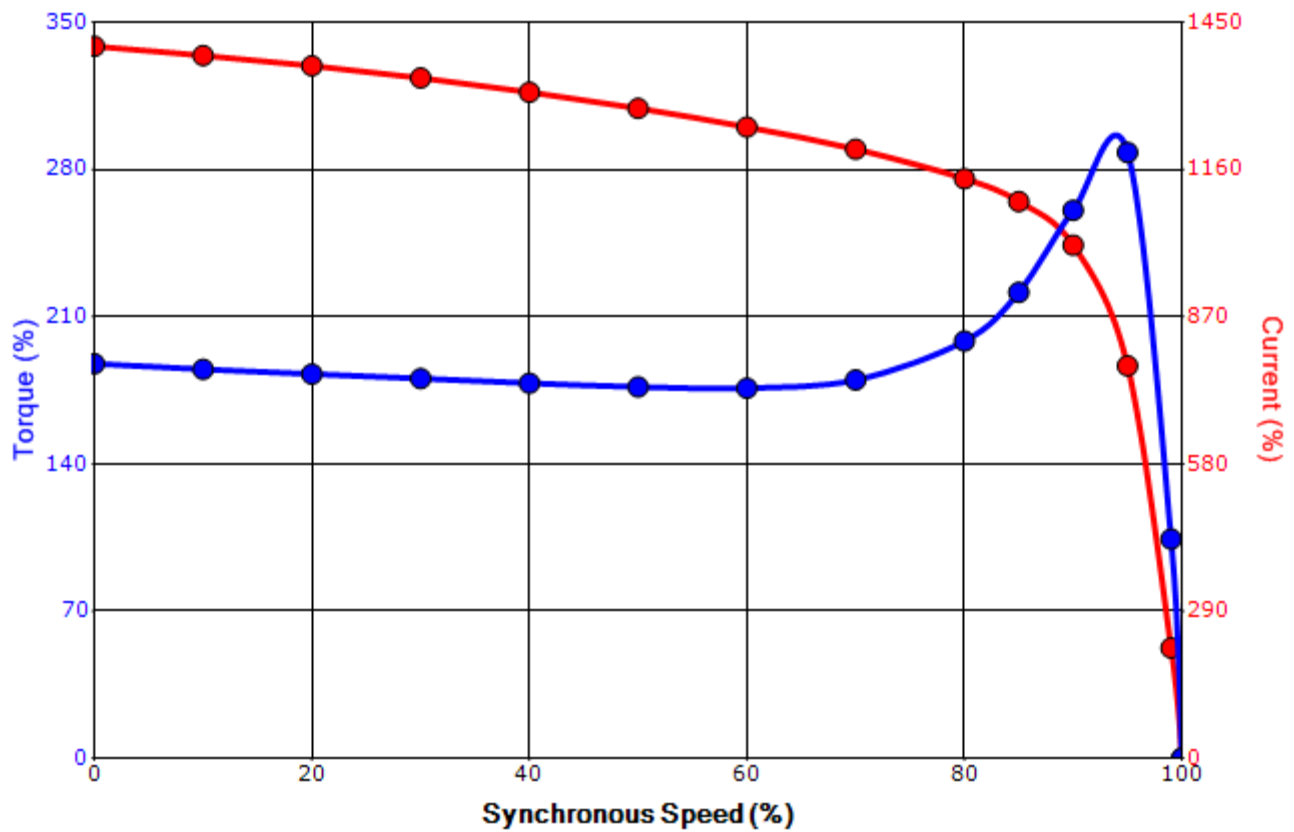
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|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: B2504VLF40MH

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 250 | 186 | 4 | 1785 | 447T | 575 | 60 | 3 | 217 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP | 22 | F | 1.15 | CONT | 96.5 | B | G | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 1460 | 80.07 | 736 | 185 | | 180 | 285 | | |

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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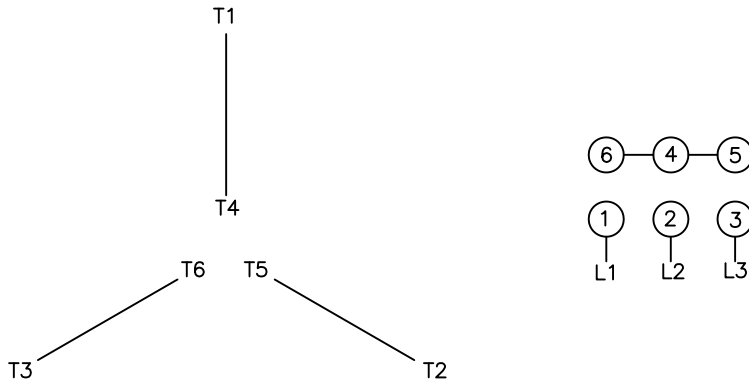
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|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 5/22/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation