

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 |
| 444TS/445TS | 21.9 | 19.3 | 45.6 | 11.00 | 1.1 | 4.3 | 4.8 | 15.8 | 22.0 | 22.4 | 3.6 | 3.00 | 20.2 | 15.9 | 11.00 | 9.2 | 15.2 | 10.3 |

| FRAME SIZE | MOUNTING | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | MAXIMUM WEIGHT | |
|-------------|----------|-------------|------|-----------------|------|------|----------|-------|-------|----------|--------|----------------|-----------|
| | E | 2F | H | BA | N-W | V | U | R | S | ES | LS | | OS |
| 444TS/445TS | 9.00 | 14.50/16.50 | 0.81 | 7.50 | 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.03 | 6313C3 | 6313C3 | 2000 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 3.00 (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 - THIS DIMENSION EQUALS 2F FOR 444TS MOUNTING
 - STANDARD PRODUCTS USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

CUSTOMER: _____ MOTOR MODEL NO.: _____

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

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

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

TYPICAL MOTOR PERFORMANCE DATA

Model: B1251FLG3BSHJ

| | | | | | | | | |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 125 | 90 | 2 | 3575 | 444TS | 460 | 60 | 3 | 139 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.4 | B | | 40 C |

| | | | | | |
|--------------|--------|------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 125.00 | 93.2 | 139 | 95.3 | 88.2 |
| ¾ Load | 93.75 | 69.9 | 108 | 95.2 | 87.5 |
| ½ Load | 62.50 | 46.6 | 79 | 94.8 | 84.3 |
| ¼ Load | 31.25 | 23.3 | 54 | 86.4 | 61.6 |
| No Load | | | 36.0 | | |
| Locked Rotor | | | 907 | | 31.5 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque | | | | Rotor wk ² |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft ²) |
| 184 | 215 | 140 | 265 | 32.61 |

| | | | | | |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 20 | 11 | - | 6313C3 | 6313C3 | 1972 |

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

Motor Options:
Product Family:EQP Global 841
Mounting:Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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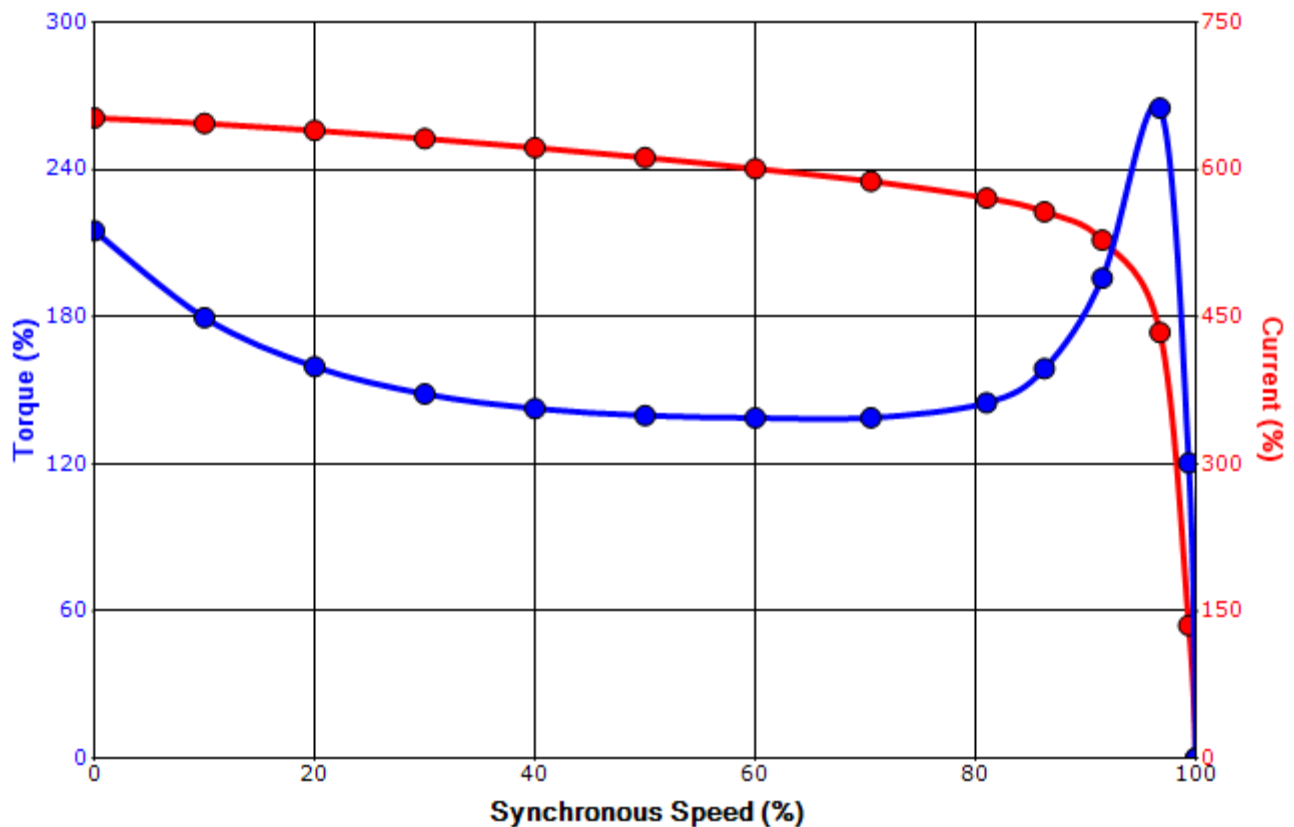
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|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | amills | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 2/10/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: B1251FLG3BSHJ

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 125 | 90 | 2 | 3575 | 444TS | 460 | 60 | 3 | 139 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.4 | B | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 907 | 32.61 | 184 | 215 | 140 | | | 265 | |

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 | amills | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 2/10/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagram

3 Leads - Wye Connection

Single Voltage



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.