

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   |
| 444T/445T  | 21.9             | 19.3 | 48.7 | 11.00 | 1.1 | 4.3 | 4.8 | 15.8 | 22.0 | 22.4 | 3.6 | 3.00        | 20.1 | 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        |
| 444T/445T  | 9.00     | 14.50/16.50 | 0.81 | 7.50            | 8.50 | 8.25 | 3.375    | 2.880 | 0.875 | 6.91     | NU318C3 | 6318C3         | 2000 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 (MOTOR SUPPLIED WITH KEY)
4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
5. THIS DIMENSION EQUALS 2F FOR 444T MOUNTING
6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_

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

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: TEFC EQP III 840 EFF & HIGH EFFICIENCY

COMMENTS: \_\_\_\_\_

TAG NO's.:

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

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

**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

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

**XT SERIES**

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

### TYPICAL MOTOR PERFORMANCE DATA

Model: B1006FLF4BSHJ01

|           |    |            |        |       |                |             |          |              |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 100       | 75 | 6          | 1185   | 444T  | 460            | 60          | 3        | 123          |
| 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           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 100   | 74.6 | 123.0   | 95.5           | 80.1             |
| ¾ Load       | 75.00 | 55.9 | 96.0    | 95.7           | 77.8             |
| ½ Load       | 50.00 | 37.3 | 72.4    | 95.2           | 69.8             |
| ¼ Load       | 25.00 | 18.6 | 53.9    | 89.7           | 48.4             |
| No Load      |       |      | 41.0    |                | 3.9              |
| Locked Rotor |       |      | 717     |                | 32.8             |

| Torque            |                      |                 |                    | Rotor wk <sup>2</sup>         |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft <sup>2</sup> ) |
| 443               | 200                  | 175             | 225                | 58.23                         |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 29                 | 11  | -                         | NU318C3   | 6318C3 | 2079                       |

\*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 | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date  | 7/25/2013 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019     |



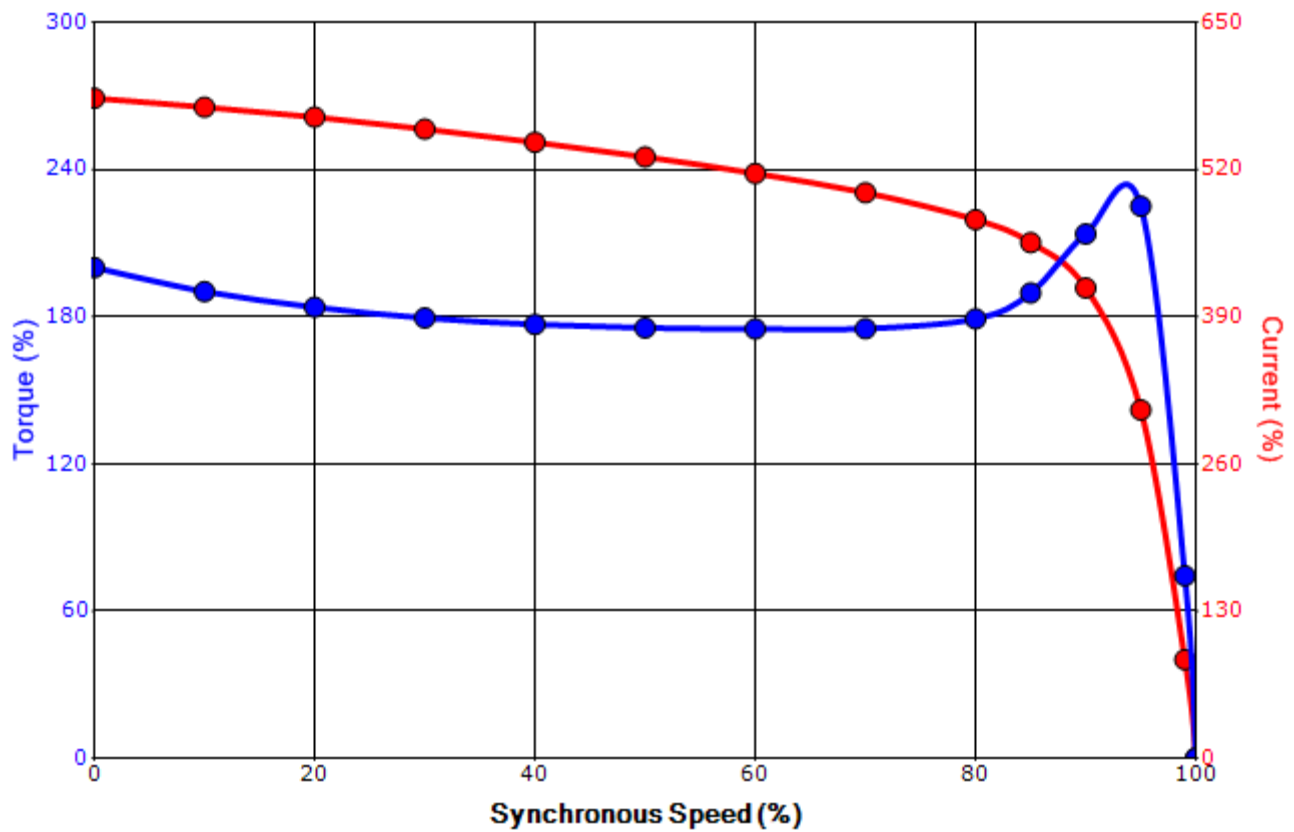
|             |           |            |  |
|-------------|-----------|------------|--|
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### SPEED TORQUE/CURRENT CURVE

Model: B1006FLF4BSHJ01

|                   |   |                   |                  |       |                |             |                |              |
|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame | Voltage        | Hz          | Phase          | FL Amps      |
| 100               | 75  | 6                 | 1185             | 444T  | 460            | 60          | 3              | 123          |
| 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           | G              | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |       |                | Pull Up (%) | Break Down (%) |              |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) |       |                |             |                |              |
| 717               | 58.23   | 443               | 200              |       | 175            | 225         |                |              |

### Design Values



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

Tag:

All characteristics are average expected values.

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|             |           |                  |             |             |             |
|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date  | 7/25/2013 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019   |

**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.