

ROTATION  
UNITS  
BI-DIRECTIONAL  
SEE NOTE 6



1/4"-20 UNC GND BOLT  
SEE NOTE 7

- 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 2.88 (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. THIS DIMENSION EQUALS 2F FOR 254T MOUNTING
  6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  7. FRAME GROUND BOLT STANDARD ON 841 PRODUCT

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  |  |
| 254T/256T  | 12.3             | 11.7 | 24.4 | 6.25 | 0.8 | 2.3 | 0 | 9.0 | 13.4 | 13.6 | 2.0 | 1.25        | 12.0 | 9.6 | 6.25 | 3.9 | 7.4 | 5.3 |  |

| FRAME SIZE | MOUNTING |            |      |      | SHAFT EXTENSION |      |       | KEY SEAT |       |      |        | BEARINGS |          | MAXIMUM WEIGHT |
|------------|----------|------------|------|------|-----------------|------|-------|----------|-------|------|--------|----------|----------|----------------|
|            | E        | 2F         | H    | BA   | N-W             | V    | U     | R        | S     | ES   | LS     | OS       |          |                |
| 254T/256T  | 5.00     | 8.25/10.00 | 0.56 | 4.25 | 4.00            | 3.75 | 1.625 | 1.416    | 0.375 | 2.88 | 6309C3 | 6308C3   | 342 lbs. |                |

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_  
 P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: EQP III 840 & 841  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 PER: \_\_\_\_\_ DATE: \_\_\_\_\_

TAG NO's.:

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|                                     |                          |
|-------------------------------------|--------------------------|
| <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            |

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**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

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

**XT SERIES**

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: B0152FLF1BMHD02

| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 15        | 11 | 2          | 3530   | 254T  | 460            | 60          | 3        | 17           |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54 | F          | 1.15   | CONT  | 91.7           | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 15    | 11.2 | 16.6    | 91.6           | 91.9             |
| ¾ Load       | 11.25 | 8.4  | 12.7    | 92.0           | 91.8             |
| ½ Load       | 7.50  | 5.6  | 9.1     | 91.6           | 91.1             |
| ¼ Load       | 3.75  | 2.8  | 6.0     | 83.2           | 70.1             |
| No Load      |       |      | 3.4     |                | 11.1             |
| Locked Rotor |       |      | 116.00  |                | 39.6             |

| Torque               |                         |                    |                       | Rotor wk <sup>2</sup><br>Inertia<br>(lb-ft <sup>2</sup> ) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load<br>(lb-ft) | Locked Rotor<br>(% FLT) | Pull Up<br>(% FLT) | Break Down<br>(% FLT) |   |
| 22.3                 | 220                     | 215                | 290                   | 1.53  |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |        | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE    |                               |
| 30                 | 14  | -                            | 6309UU    | 6309UU |                               |

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

**Motor Options:**  
Product Family:EQPIII 840  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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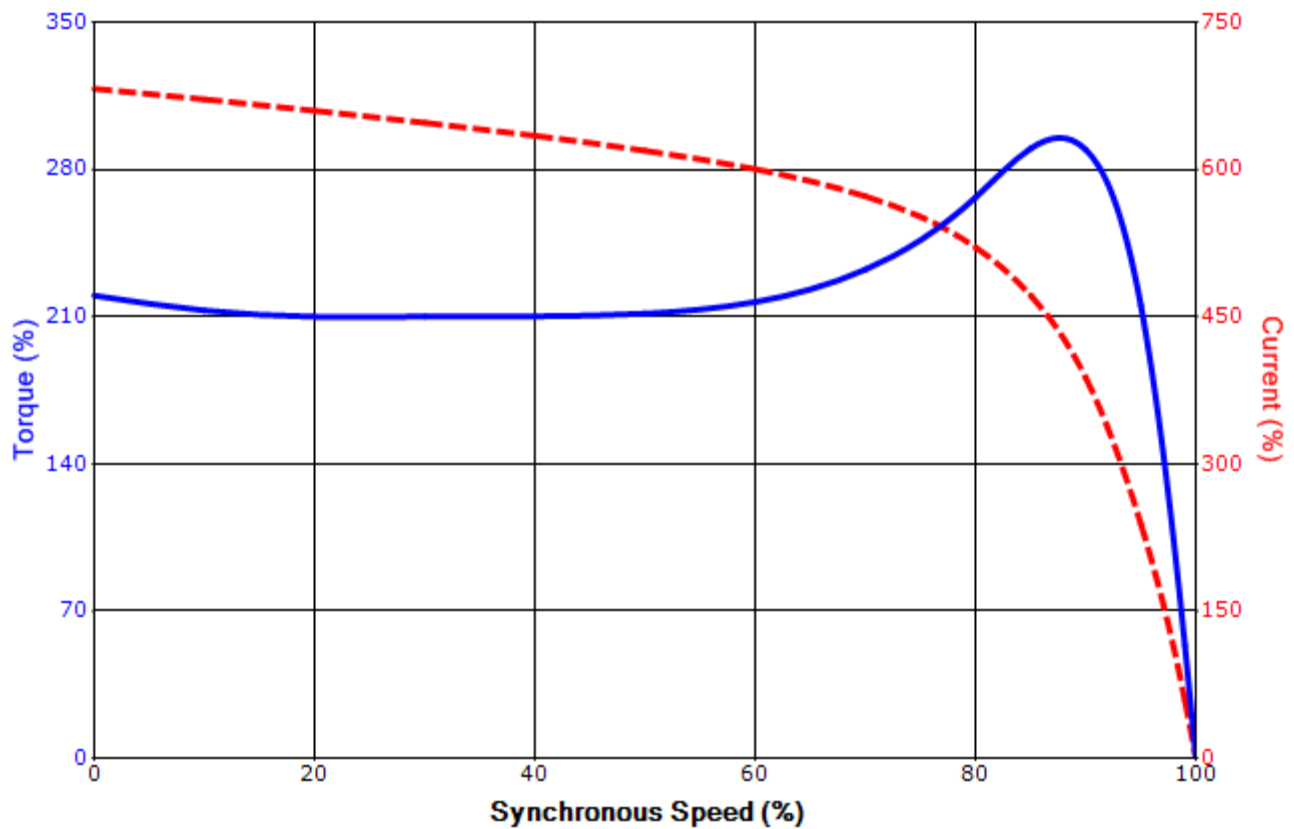
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 6/26/2013 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: B0152FLF1BMHD02

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 15                | 11  | 2                 | 3530             | 254T        | 460            | 60          | 3        | 17             |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 54  | F                 | 1.15             | CONT        | 91.7           | B           | G        | 40 C           |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          | Break Down (%) |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                |             |          |                |
| 116.00            | 1.53  | 22.3              | 220              | 215         |                |             | 290      |                |

**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  | -   |

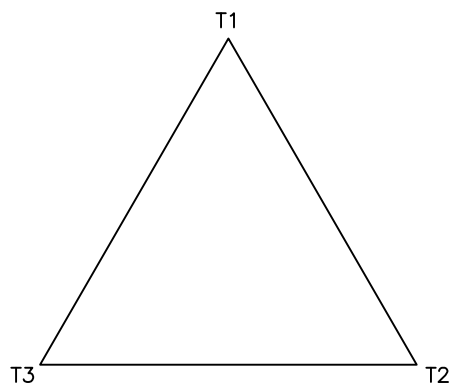
Tag:

All characteristics are average expected values.

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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 6/26/2013 | 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.