

1/2"-13 UNC GND BOLT  
SEE NOTE 7

UNITS: INCHES

| FRAME SIZE    | MOTOR DIMENSIONS |             |      |       |                 |      |       |       |          |      | CONDUIT BOX |            |            |         |            |           |                |      | MAXIMUM WEIGHT |
|---------------|------------------|-------------|------|-------|-----------------|------|-------|-------|----------|------|-------------|------------|------------|---------|------------|-----------|----------------|------|----------------|
|               | A                | B           | C    | D     | G               | J    | K     | M     | O        | P    | T           | A[NPT]     | AB         | AC      | AE         | AF        | XL             | XN   |                |
| N447T/N449T   | 22.0             | 34.7        | 59.3 | 11.00 | 1.4             | 4.6  | 13.8  | 20.9  | 25.0     | 27.0 | 3.0         | 4.00       | 24.0       | 19.7    | 11.00      | 9.2       | 15.2           | 10.2 |                |
| N447TS/N449TS | 22.0             | 34.7        | 55.6 | 11.00 | 1.4             | 4.6  | 13.8  | 20.9  | 25.0     | 27.0 | 3.0         | 4.00       | 24.0       | 19.7    | 11.00      | 9.2       | 15.2           | 10.2 |                |
| FRAME SIZE    | MOUNTING         |             |      |       | SHAFT EXTENSION |      |       |       | KEY SEAT |      |             |            | BEARINGS   |         |            |           | MAXIMUM WEIGHT |      |                |
|               | E                | 2F          | H    | BA    | N-W             | V    | U     | R     | S        | ES   | US ROLLER   | US BALL 6P | US BALL 4P | OS 4~8P | US BALL 2P | OS 2P     |                |      |                |
| N447T/N449T   | 9.00             | 20.00/25.00 | 0.82 | 7.50  | 8.50            | 8.25 | 3.375 | 2.880 | 0.875    | 6.88 | NU322C3     | 6322C3     | 6318C3     | 6318C3  | -          | -         |                |      |                |
| N447TS/N449TS | 9.00             | 20.00/25.00 | 0.82 | 7.50  | 4.75            | 4.50 | 2.375 | 2.021 | 0.625    | 3.00 | -           | 6318C3     | 6318C3     | 6318C3  | 6313C3     | 6313C3    |                |      |                |
|               |                  |             |      |       |                 |      |       |       |          |      |             |            |            |         |            | 3800 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 6.91 (MOTOR SUPPLIED WITH KEY)
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  - THIS DIMENSION EQUALS 2F FOR N447T MOUNTING
  - STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  - FRAME GROUND BOLT STANDARD ON 841 PRODUCT

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_ TAG NO's.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ HZ: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: IEFEC EOP III 840  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 PER: \_\_\_\_\_ DATE: \_\_\_\_\_

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

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TOSHIBA INTERNATIONAL CORPORATION

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

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: B3003FLG3OSHJL

|           |     |            |        |        |                |             |          |              |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
| 300       | 224 | 2          | 3580   | N449TS | 575            | 60          | 3        | 261          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT   | 95.8           | B           | G        | 40 C         |

|              |        |       |         |                |                  |
|--------------|--------|-------|---------|----------------|------------------|
| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 300    | 223.7 | 261.0   | 95.8           | 89.9             |
| ¾ Load       | 225.00 | 167.8 | 199.6   | 94.7           | 89.2             |
| ½ Load       | 150.00 | 111.9 | 140.9   | 92.5           | 86.2             |
| ¼ Load       | 75.00  | 55.9  | 87.9    | 86.0           | 74.3             |
| No Load      |        |       | 54.0    |                | 8.5              |
| Locked Rotor |        |       | 1760.00 |                | 23.6             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| 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> ) |
| 440               | 190                  | 130             | 305                | 116.14                        |

|                    |     |                           |           |        |                            |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE        | NDE    |                            |
| 34                 | 12  | -                         | 6313C3    | 6313C3 |                            |

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

**Motor Options:**  
Product Family:EQPIII 841  
Mounting:Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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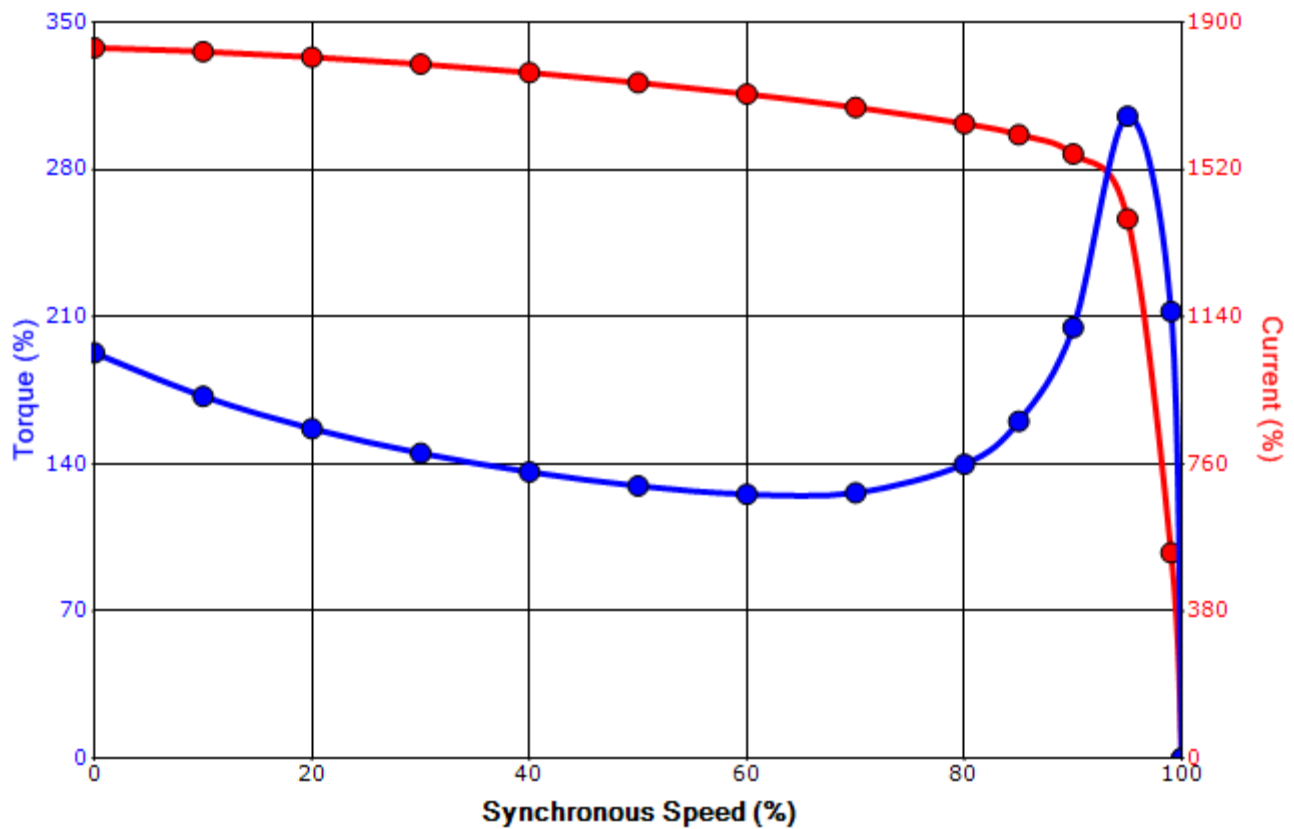
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | garce     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 8/21/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: B3003FLG3OSHJL

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 300               | 224   | 2                 | 3580             | N449TS      | 575            | 60          | 3        | 261            |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 56  | F                 | 1.15             | CONT        | 95.8           | 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 (%) |                |             |          |                |
| 1760.00           | 116.14  | 440               | 190              | 130         |                |             | 305      |                |

**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.

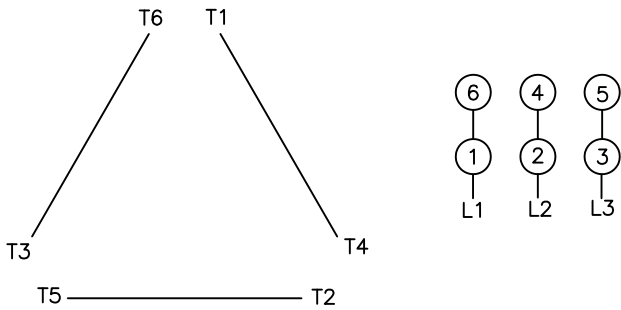
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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | garce     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 8/21/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**Motor Connection Diagrams**  
6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation