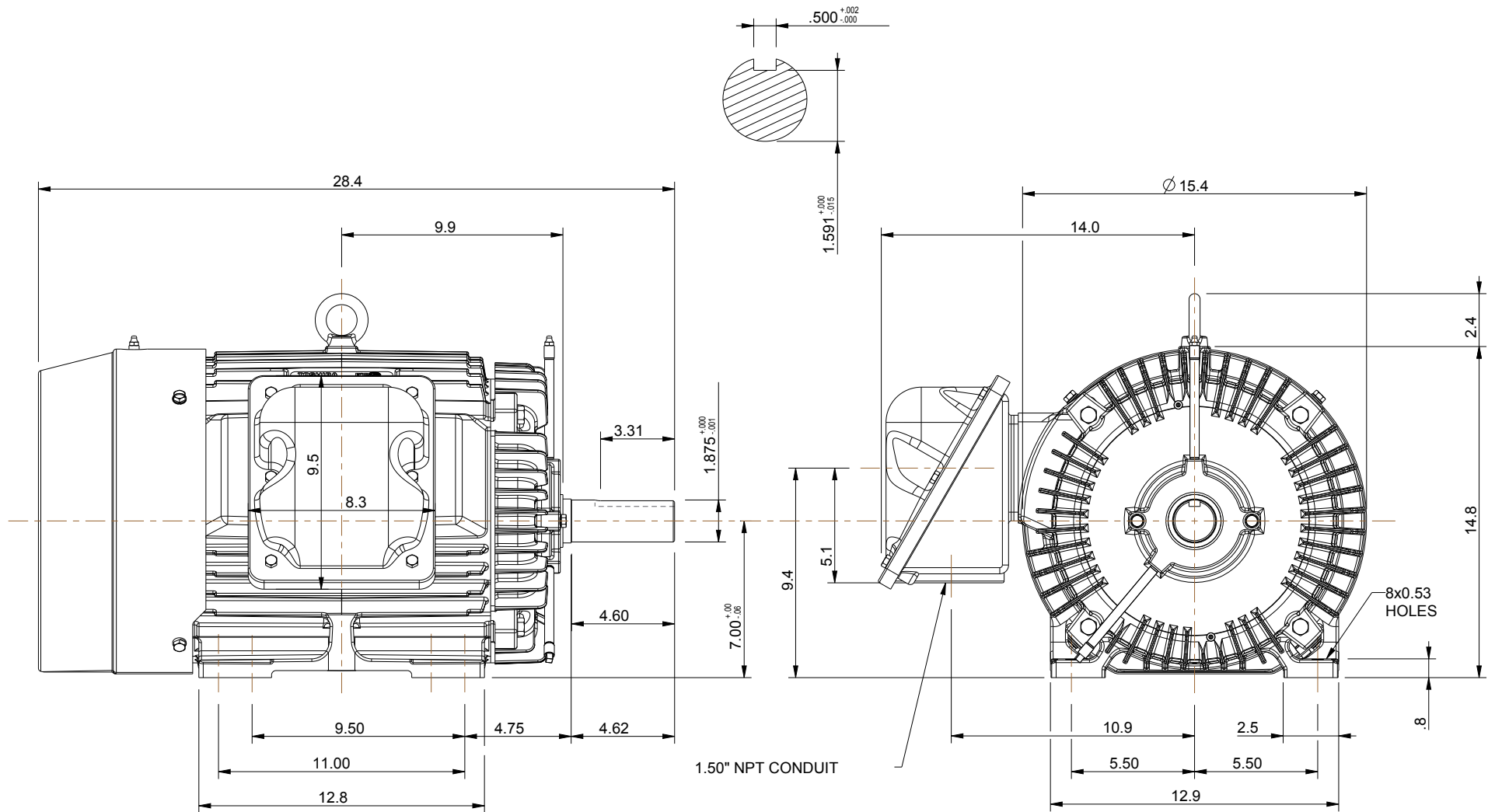




- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY)
- 0.500" x 0.500" x 3.25"

UNITS: INCHES

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

|                                                            |                                                                   |    |                                       |          |          |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------|-------------------------------------------------------------------|----|---------------------------------------|----------|----------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>280T TEFC FRAME<br/>F1 ASSEMBLY</b>                     | <b>TOLERANCES</b><br>.X .1<br>.XX .03<br>.XXX .005<br>.XXXX .0005 |    |                                       |          |          |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MDSLV001-05                                                | <b>MAXIMUM<br/>MOTOR WEIGHT</b>                                   |    |                                       |          |          |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TOSHIBA</b><br><b>TOSHIBA INTERNATIONAL CORPORATION</b> | 448 lbs.<br>203 kgs.                                              | 0  | FIRST ISSUE (OVERRIDE 'R' DIM. VALUE) | N. MOMIN | 09/02/10 | JR    | CHECK |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                            |                                                                   | NO | REVISION                              | DRAWN BY | DATE     | CHECK |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



DRAWN BY: N. MOMIN  
CHECK BY: J. RUSSELL  
APPROVED BY: \_\_\_\_\_  
www.toshiba.com/ind

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0206SDSR41A-P

| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 20        | 15 | 6          | 1170   | 286T  | 230/460        | 60          | 3        | 50/25        |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54 | F          | 1.15   | CONT  | 91.7           | A           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 20    | 14.9 | 25.0    | 91.8           | 79.7             |
| ¾ Load       | 15.00 | 11.2 | 20.6    | 91.8           | 75.9             |
| ½ Load       | 10.00 | 7.5  | 16.4    | 90.7           | 67.1             |
| ¼ Load       | 5.00  | 3.7  | 13.5    | 83.0           | 41.6             |
| No Load      |       |      | 11.2    |                |                  |
| Locked Rotor |       |      | 158.00  |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 89.8              | 255                  | 225             | 275                | 6.10                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |         | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|---------|----------------------------|
| Cold               | Hot |                           | DE        | NDE     |                            |
| 35                 | 15  | -                         | 6310ZC3   | 6310ZC3 |                            |

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

### Motor Options:

Product Family:EQP Global SD  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values. The declared locked rotor current has a tolerance of 20%.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

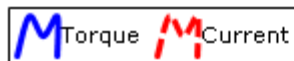
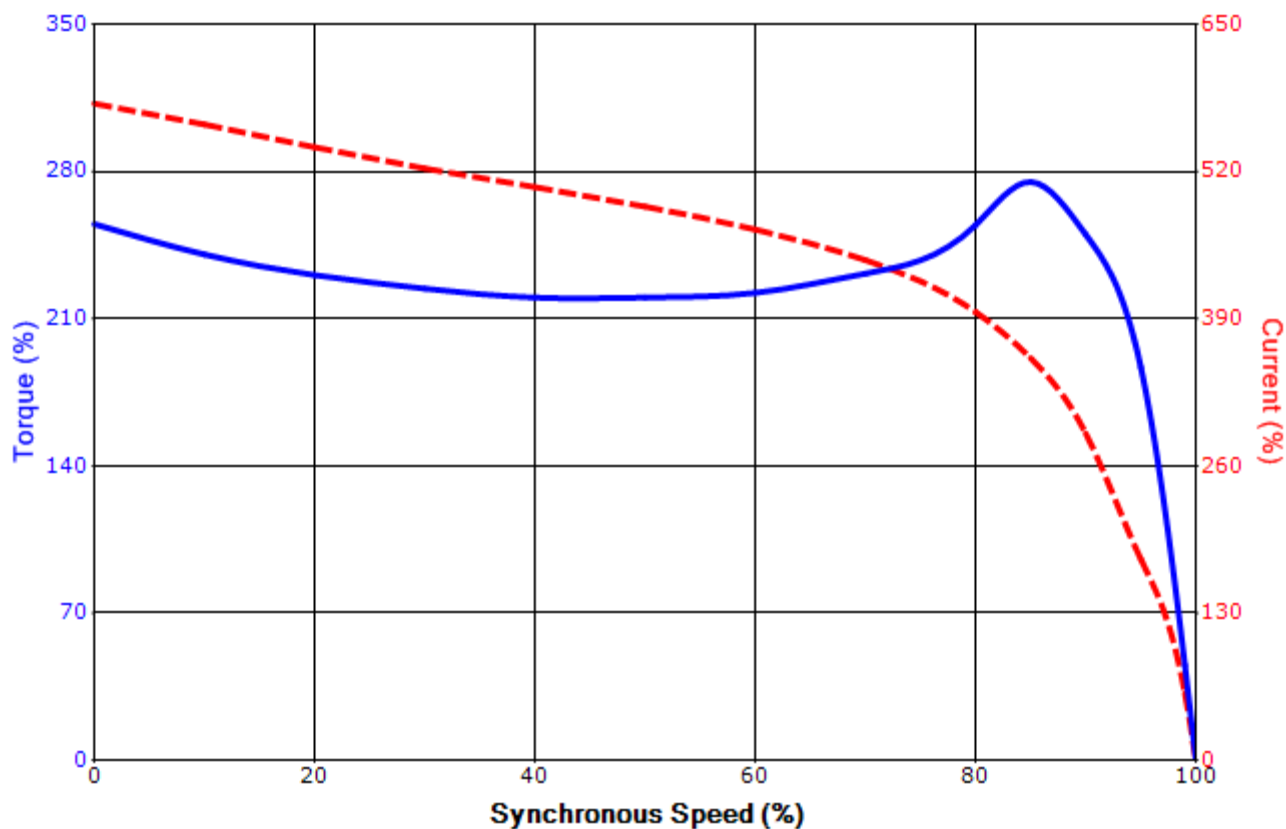
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date  | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 7/31/2013     |

## SPEED TORQUE/CURRENT CURVE

Model: 0206SDSR41A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 20                | 15                                                  | 6                 | 1170             | 286T        | 230/460        | 60             | 3        | 50/25        |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 54                                                  | F                 | 1.15             | CONT        | 91.7           | A              | G        | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |                |          |              |
|                   |                                                     | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                | Break Down (%) |          |              |
| 158.00            | 6.10                                                | 89.8              | 255              | 225         |                | 275            |          |              |

### 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.

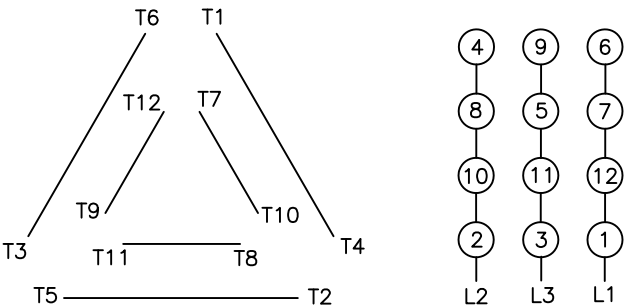
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

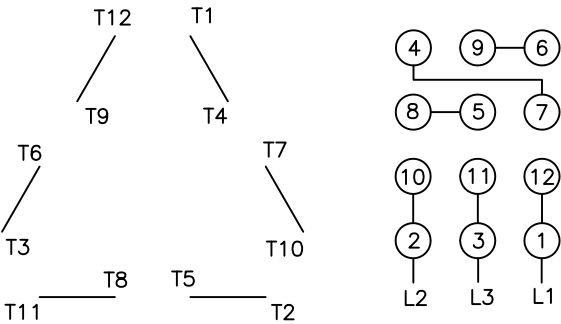
**Motor Connection Diagrams**  
12 Leads

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting.  
Please Contact Toshiba International for specific connections.