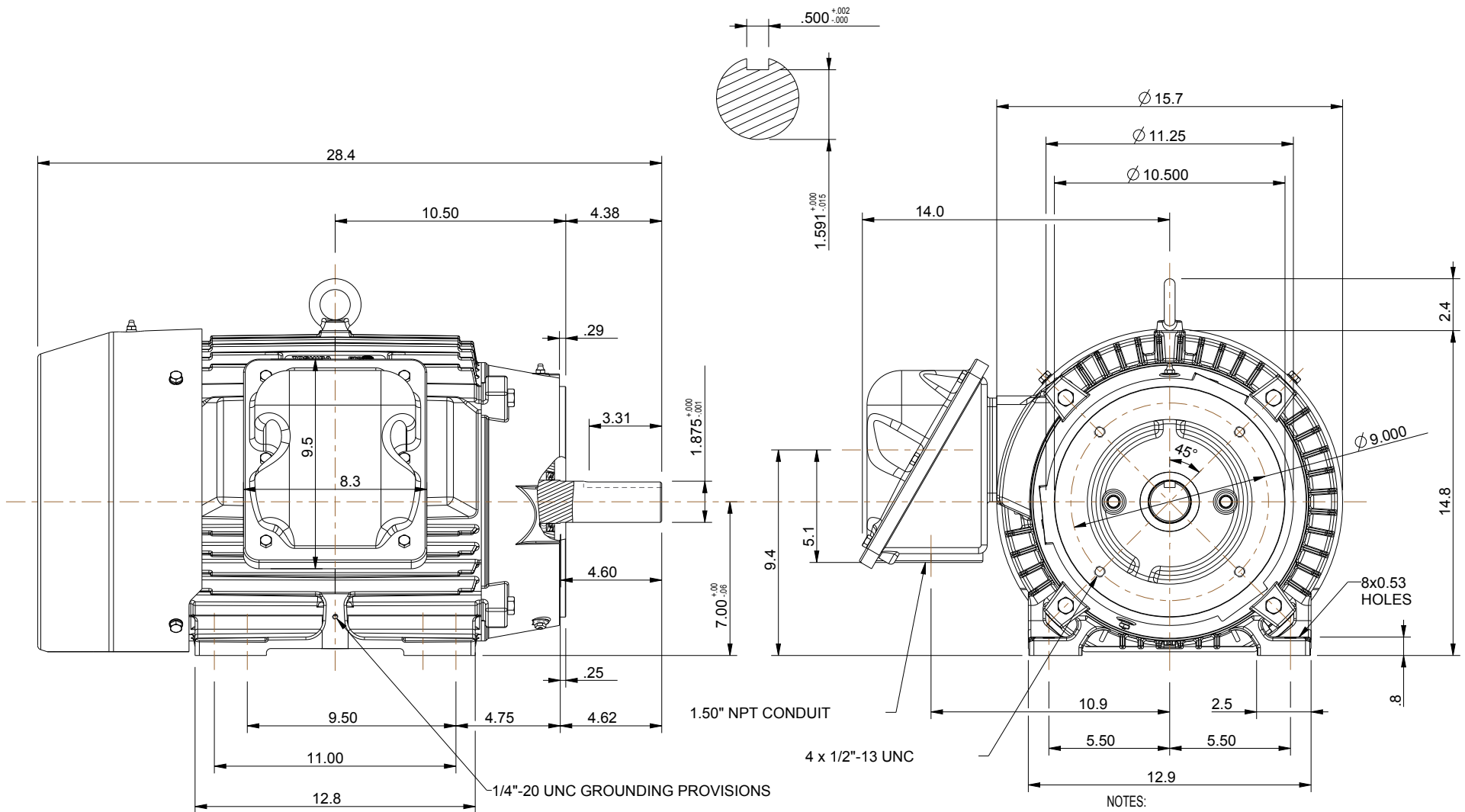




- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY)
- 0.500" x 0.500" x 3.25"

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.

|                                              |  |                                                            |  |    |                                               |          |          |       |                     |                                                                                       |  |
|----------------------------------------------|--|------------------------------------------------------------|--|----|-----------------------------------------------|----------|----------|-------|---------------------|---------------------------------------------------------------------------------------|--|
| 280TC TEFC FRAME<br>F1 ASSEMBLY              |  | TOLERANCES<br>.X .1<br>.XX .03<br>.XXX .005<br>.XXXX .0005 |  |    |                                               |          |          |       |                     |  |  |
| MDSL085-05                                   |  | MAXIMUM<br>MOTOR WEIGHT<br><br>448 lbs.<br>203 kgs.        |  |    |                                               |          |          |       |                     | DRAWN BY: N. MOMIN                                                                    |  |
| TOSHIBA<br>TOSHIBA INTERNATIONAL CORPORATION |  |                                                            |  |    |                                               |          |          |       |                     | CHECK BY: J. RUSSELL                                                                  |  |
|                                              |  |                                                            |  | 0  | FIRST ISSUE (OVERRIDE 'AH' & 'R' DIM. VALUES) | N. MOMIN | 12/16/10 | JR    | APPROVED BY:        |                                                                                       |  |
|                                              |  |                                                            |  | NO | REVISION                                      | DRAWN BY | DATE     | CHECK | www.toshiba.com/ind |                                                                                       |  |



## TYPICAL MOTOR PERFORMANCE DATA

Model: 0304XDSC42A-P

| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 30        | 22 | 4          | 1770   | 286TC | 575            | 60          | 3        | 29           |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56 | F          | 1.15   | CONT  | 93.6           | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 30    | 22.4 | 29.0    | 93.8           | 83.7             |
| ¾ Load       | 22.50 | 16.8 | 21.9    | 93.3           | 81.0             |
| ½ Load       | 15.00 | 11.2 | 16.3    | 91.7           | 73.8             |
| ¼ Load       | 7.50  | 5.6  | 11.9    | 85.2           | 55.3             |
| No Load      |       |      | 10.1    |                |                  |
| Locked Rotor |       |      | 172.00  |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 89                | 185                  | 165             | 290                | 5.70                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6310C3    | 6310C3 |                            |

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

### Motor Options:

Product Family:EQP Global 841 CFace Footed  
Mounting:C-Face Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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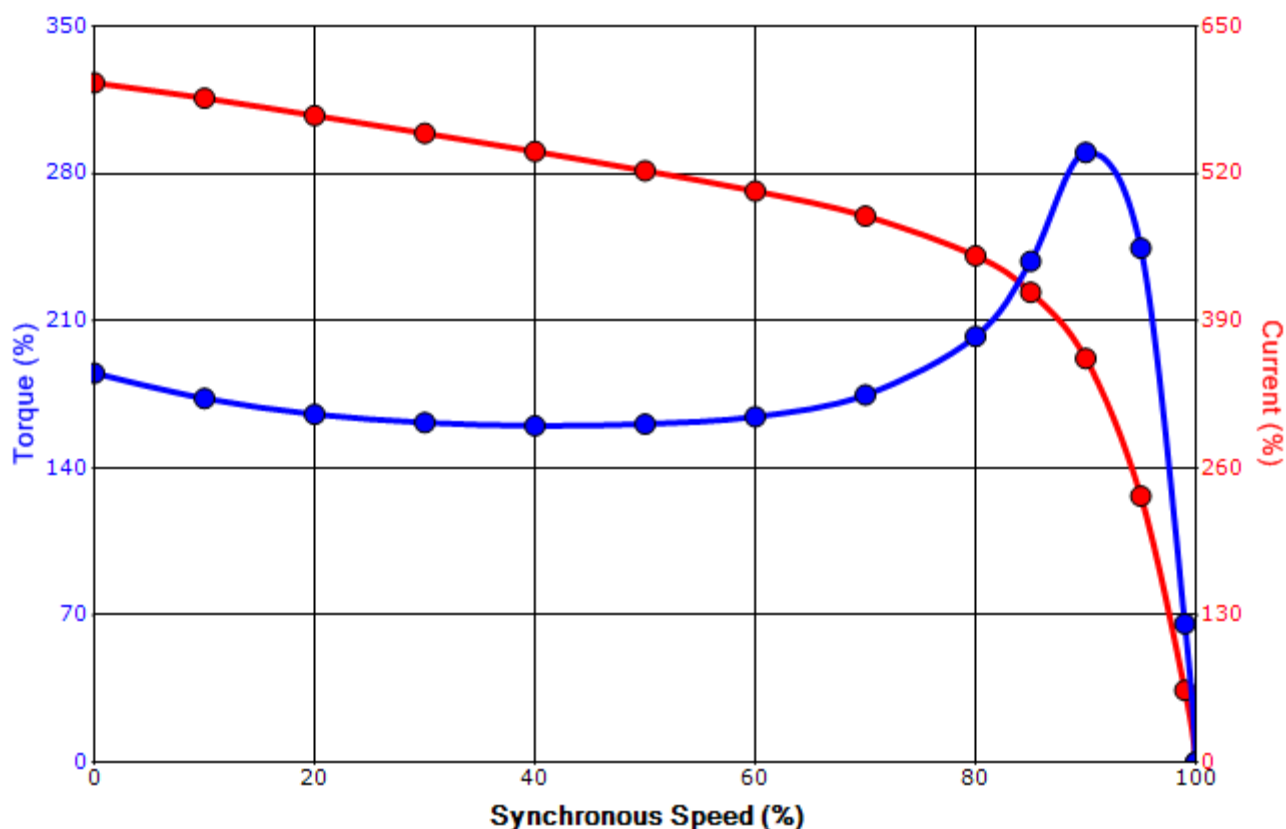
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 3/13/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 0304XDSC42A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 30                | 22                                                  | 4                 | 1770             | 286TC       | 575            | 60             | 3        | 29           |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 93.6           | B              | 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 (%) |          |              |
| 172.00            | 5.70                                                | 89                | 185              | 165         |                | 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:

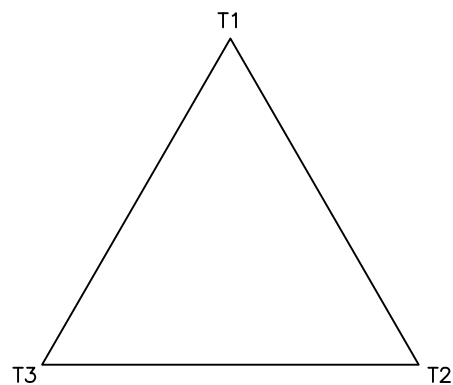
All characteristics are average expected values.

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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 3/13/2014 | 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.