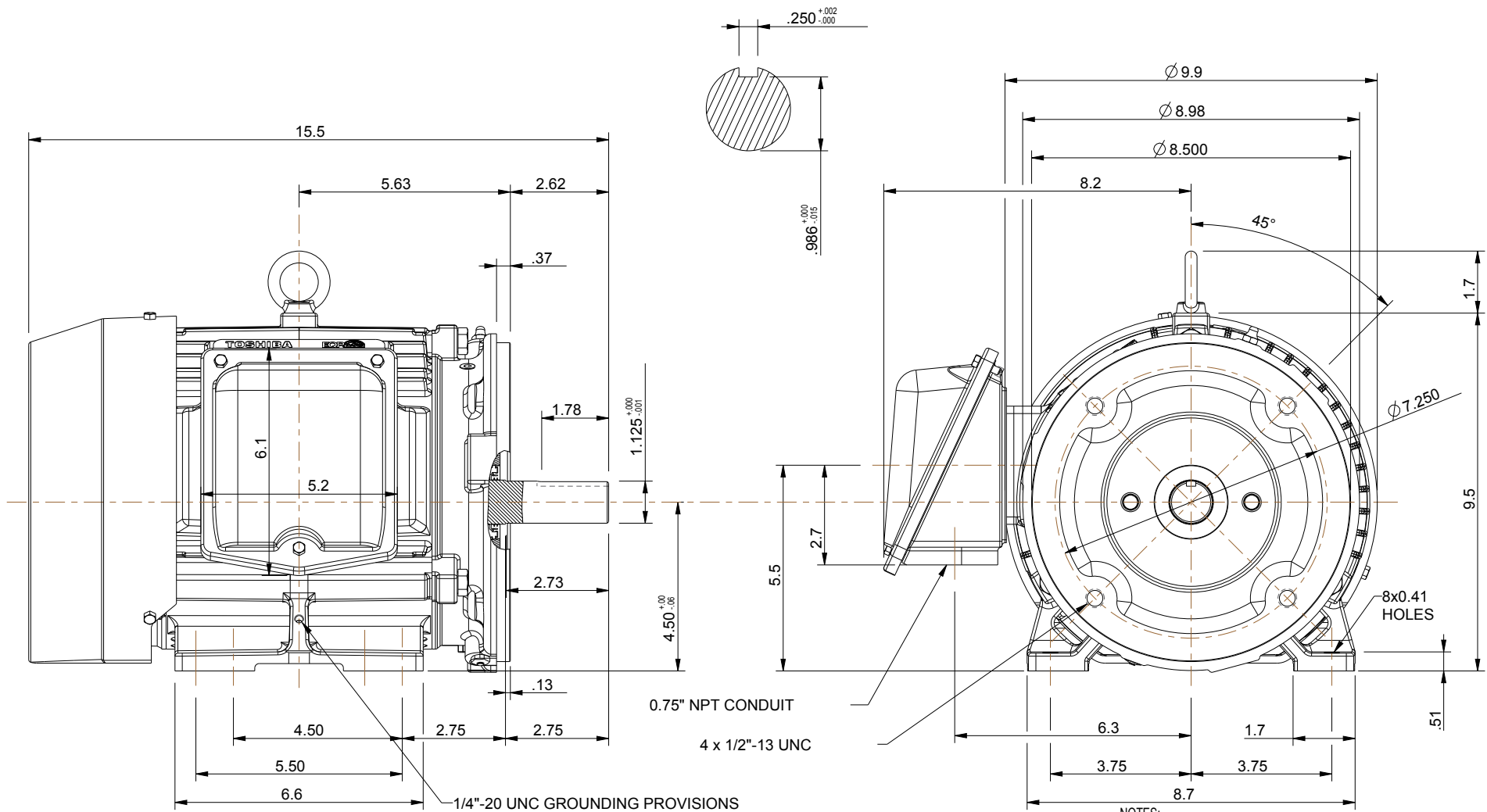




- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY)
- 0.250" x 0.250" x 1.75"

|                                                                                                                                                                                         |  |  |                         |                                        |          |          |       |                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------|----------------------------------------|----------|----------|-------|-----------------------------------------------------------------------------------------|--|
| 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. |  |  |                         |                                        |          |          |       |                                                                                         |  |
| 180TC TEFC FRAME<br>F1 ASSEMBLY                                                                                                                                                         |  |  | TOLERANCES              |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | .X .1                   |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | .XX .03                 |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | .XXX .005               |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | .XXXX .0005             |                                        |          |          |       |                                                                                         |  |
| MDSL085-02                                                                                                                                                                              |  |  | MAXIMUM<br>MOTOR WEIGHT |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | 97 lbs.                 |                                        |          |          |       |                                                                                         |  |
|                                                                                                                                                                                         |  |  | 44 kgs.                 |                                        |          |          |       |                                                                                         |  |
| TOSHIBA<br>TOSHIBA INTERNATIONAL CORPORATION                                                                                                                                            |  |  | 0                       | FIRST ISSUE (OVERRIDE "U" DIM. VALUES) | N. MOMIN | 12/29/10 | JR    | DRAWN BY: N. MOMIN<br>CHECK BY: J. RUSSELL<br>APPROVED BY: _____<br>www.toshiba.com/ind |  |
|                                                                                                                                                                                         |  |  | NO                      | REVISION                               | DRAWN BY | DATE     | CHECK |                                                                                         |  |



## TYPICAL MOTOR PERFORMANCE DATA

Model: 0034XDSC42A-P

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 3         | 2.2 | 4          | 1760   | 182TC | 575            | 60          | 3        | 3.20         |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 89.5           | B           | K        | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 3    | 2.2 | 3.2     | 89.5           | 79.6             |
| ¾ Load       | 2.25 | 1.7 | 2.3     | 89.0           | 75.1             |
| ½ Load       | 1.50 | 1.1 | 1.8     | 86.8           | 65.4             |
| ¼ Load       | 0.75 | 0.6 | 1.5     | 79.2           | 47.1             |
| No Load      |      |     | 1.6     |                | 5.9              |
| Locked Rotor |      |     | 25.00   |                | 56.2             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 8.95              | 270                  | 225             | 390                | 0.37                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6306C3    | 6306C3 |                            |

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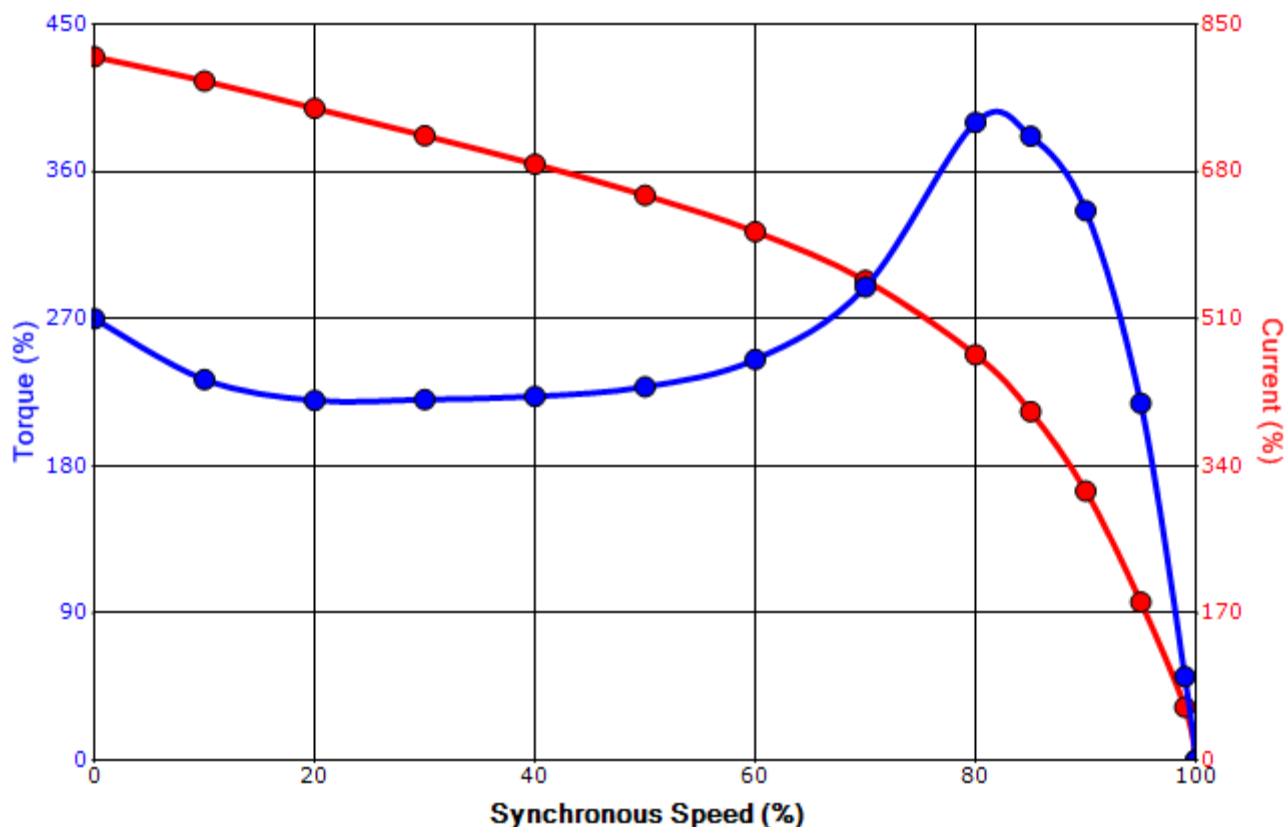
|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | jhock    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 3/3/2014 | Doc.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

# SPEED TORQUE/CURRENT CURVE

Model: 0034XDSC42A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 3                 | 2.2                                                 | 4                 | 1760             | 182TC       | 575            | 60             | 3        | 3.20         |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 89.5           | B              | K        | 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 (%) |          |              |
| 25.00             | 0.37                                                | 8.95              | 270              | 225         |                | 390            |          |              |

## 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  | 3/3/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## Motor Connection Diagram

### 3 Leads - Wye 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.