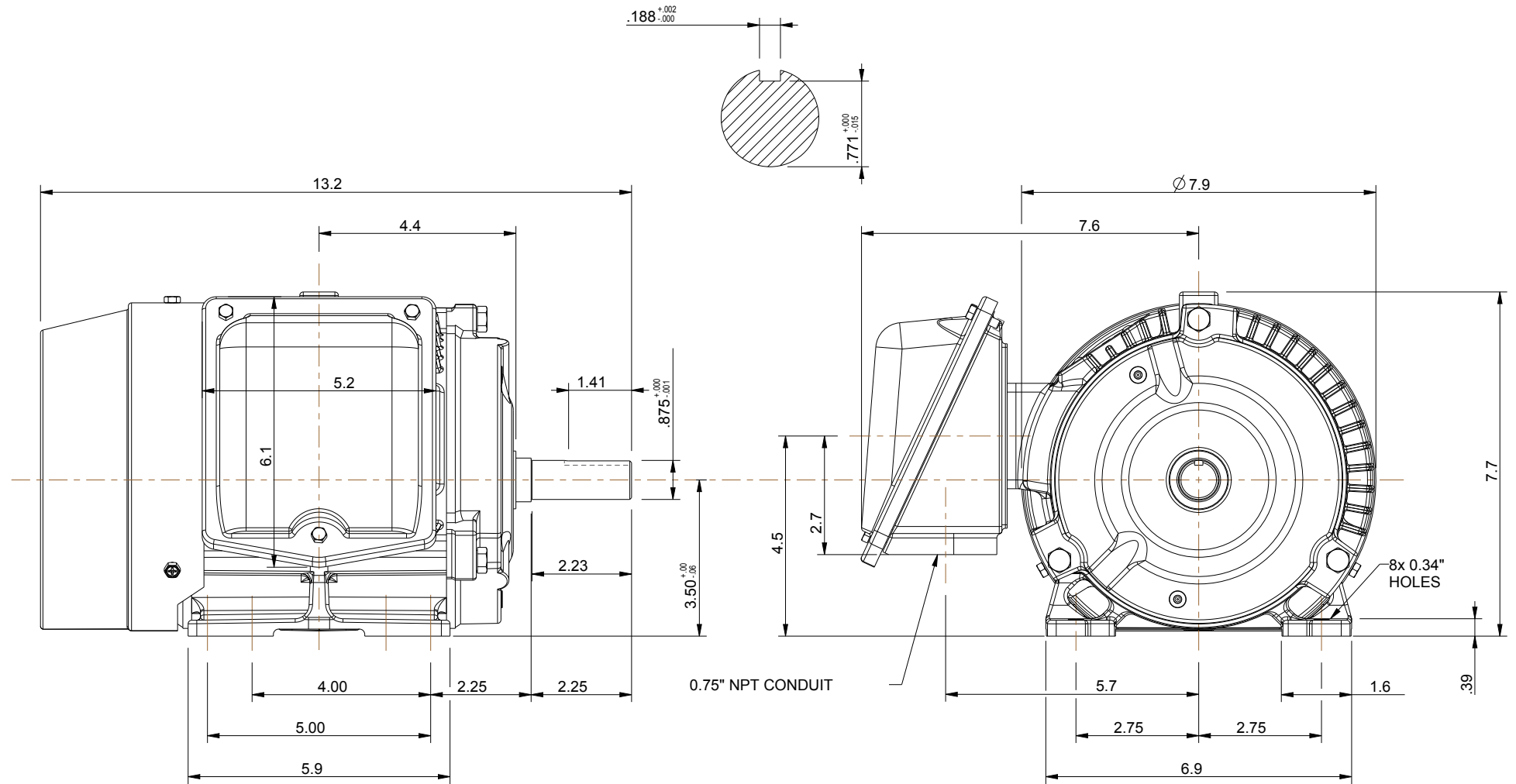




#### NOTES:

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)

0.188" x 0.188" x 1.38"

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.

## 140T TEFC FRAME F1 ASSEMBLY

MDSL001-01

**TOSHIBA**  
TOSHIBA INTERNATIONAL CORPORATION

#### TOLERANCES

|       |       |
|-------|-------|
| .X    | .1    |
| .XX   | .03   |
| .XXX  | .005  |
| .XXXX | .0005 |

MAXIMUM  
MOTOR WEIGHT

56 lbs.  
25 kgs.

|    |                                         |
|----|-----------------------------------------|
| 3  | CHANGED 'H' DIMENSION FROM 0.35"        |
| 2  | CHANGED 'R' & 'S' DIMS. (MANUAL UPDATE) |
| 1  | ADDED KEY DIMENSIONS                    |
| 0  | FIRST ISSUE                             |
| NO | REVISION                                |

|           |          |       |
|-----------|----------|-------|
| MO        | 04/17/14 | JR    |
| M. O'DOWD | 08/21/13 | JR    |
| S. CLANCY | 08/07/12 | JR    |
| N. MOMIN  | 09/02/10 | JR    |
| DRAWN BY  | DATE     | CHECK |

**EQP Global SD**  
**XT SERIES**

DRAWN BY: N. MOMIN  
CHECK BY: J. RUSSELL  
APPROVED BY:

www.toshiba.com/ind

# TYPICAL MOTOR PERFORMANCE DATA

Model: 0014SDSC41A-P

| HP        | kW   | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|------|------------|--------|-------|----------------|-------------|----------|--------------|
| 1         | 0.75 | 4          | 1760   | 143T  | 575            | 60          | 3        | 1.29         |
| Enclosure | IP   | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55   | F          | 1.15   | CONT  | 85.5           | B           | N        | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 1    | 0.7 | 1.2     | 85.6           | 69.8             |
| ¾ Load       | 0.75 | 0.6 | 1.1     | 83.8           | 61.5             |
| ½ Load       | 0.50 | 0.4 | 1.0     | 79.2           | 48.9             |
| ¼ Load       | 0.25 | 0.2 | 0.9     | 66.0           | 30.1             |
| No Load      |      |     | 0.8     |                |                  |
| Locked Rotor |      |     | 12.00   |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 2.98              | 330                  | 285             | 485                | 0.11                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |          | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|----------|----------------------------|
| Cold               | Hot |                           | DE        | NDE      |                            |
| 35                 | 15  | -                         | 6305ZZC3  | 6305ZZC3 |                            |

\*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.

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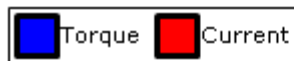
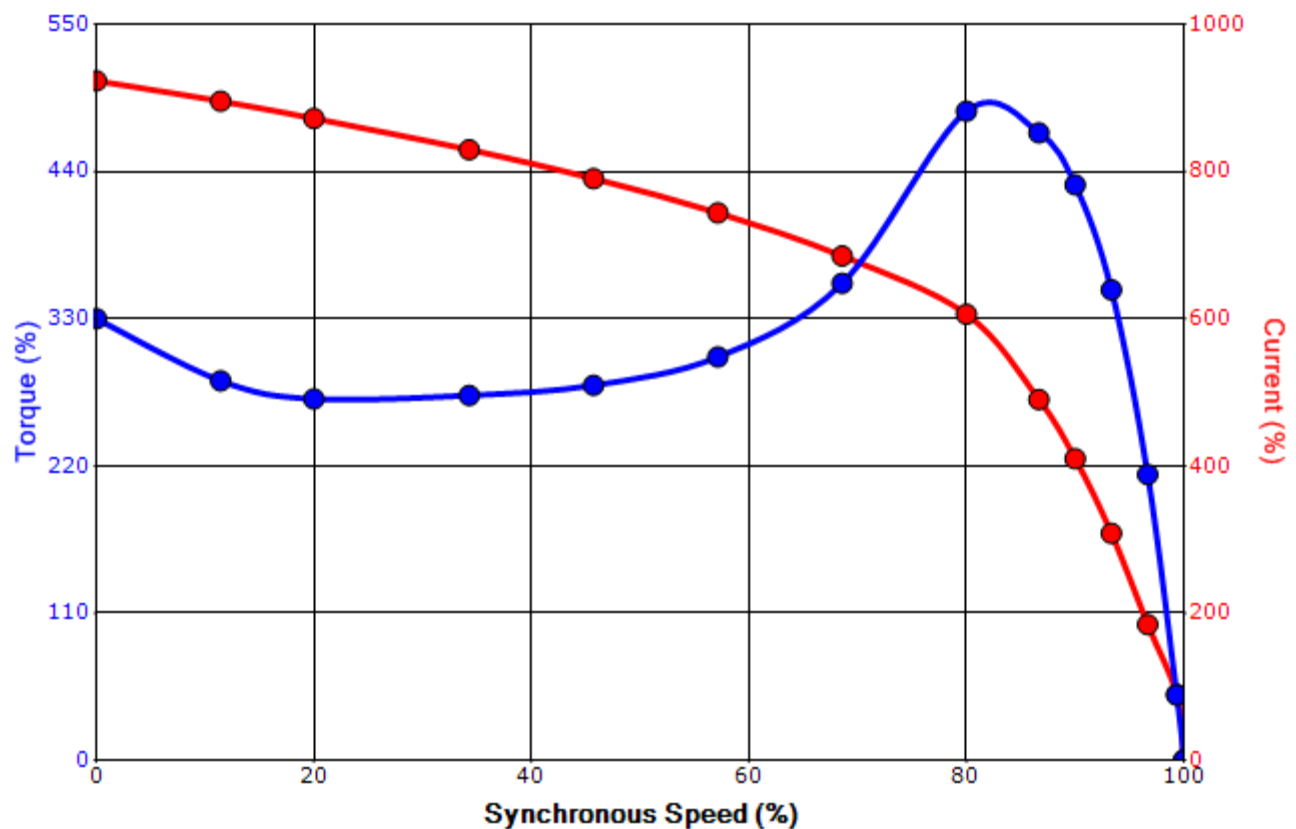
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | mcampbell | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 2/10/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 0014SDSC41A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame | Voltage        | Hz          | Phase          | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| 1                 | 0.75                                                | 4                 | 1760             | 143T  | 575            | 60          | 3              | 1.29         |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code       | Ambient (°C) |
| TEFC              | 55                                                  | F                 | 1.15             | CONT  | 85.5           | B           | N              | 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 (%) |              |
| 12.00             | 0.11                                                | 2.98              | 330              |       | 285            |             | 485            |              |

### 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:

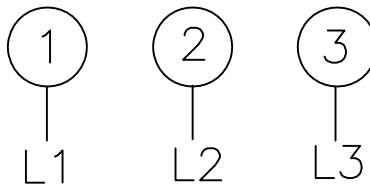
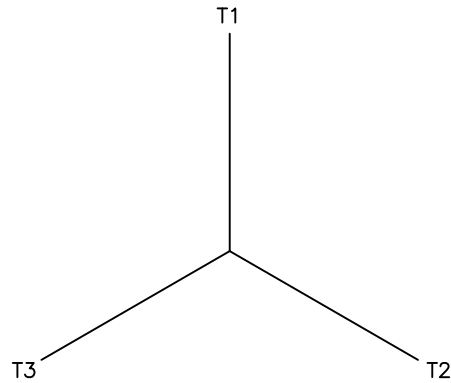
All characteristics are average expected values.

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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | mcampbell | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 2/10/2012 | 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.