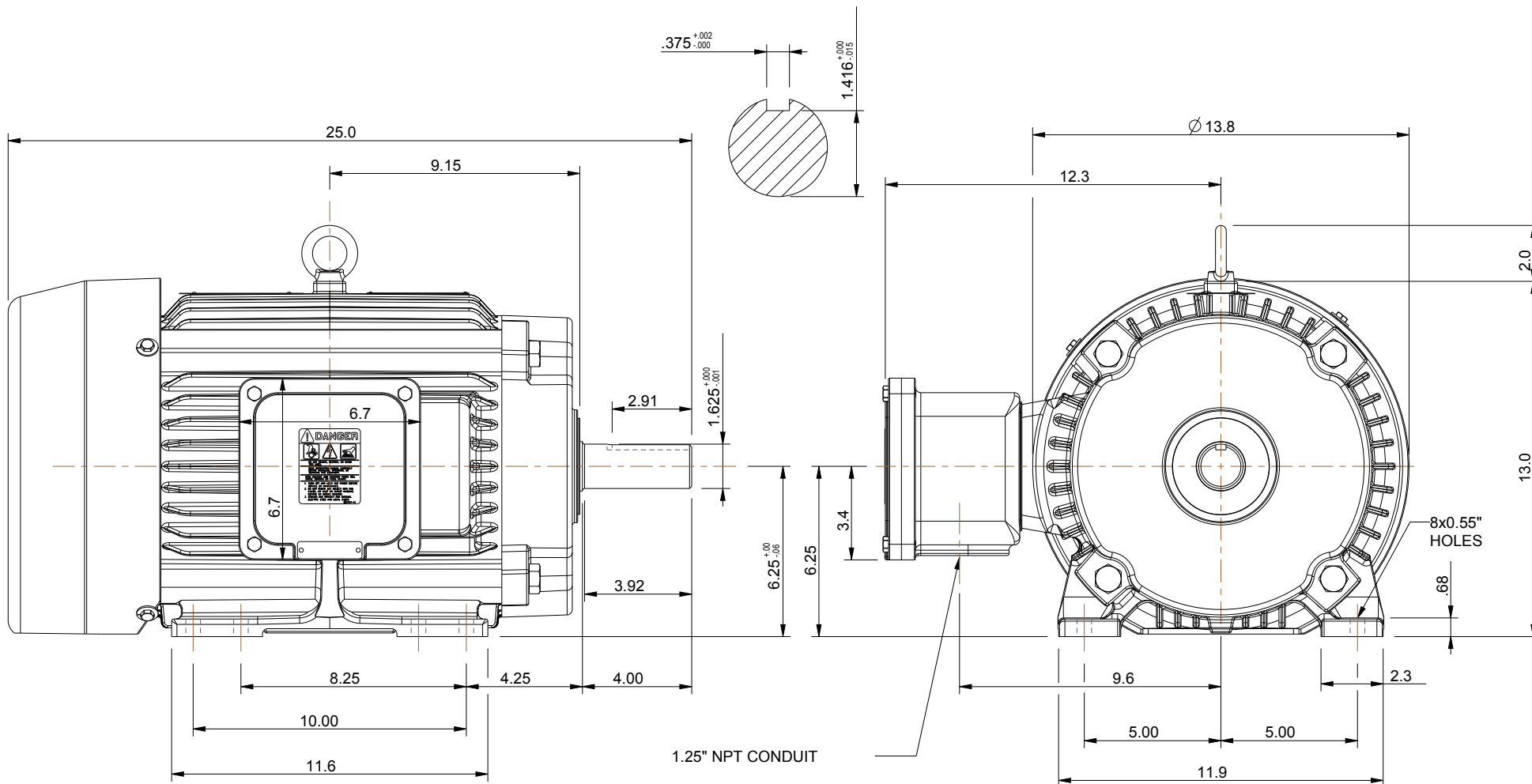




# NOTES:

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)

0.375" x 0.375" x 2.88"

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.

## 250T TEXP FRAME F1 ASSEMBLY

MDSL800-04

# TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

### TOLERANCES

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

### MAXIMUM MOTOR WEIGHT

373 lbs.  
169 kgs.

| NO | REVISION                              | DRAWN BY | DATE     | CHECK |
|----|---------------------------------------|----------|----------|-------|
| 0  | FIRST ISSUE (OVERRIDE "U" DIM. VALUE) | MO       | 03/12/14 | JR    |
| NO |                                       |          |          |       |

**EQP**Global **XP**  
**XT SERIES**

DRAWN BY: M. O'DOWD  
CHECK BY: J. RUSSELL  
APPROVED BY: \_\_\_\_\_  
www.toshiba.com/ind

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0154XPEC41A-P

| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 15        | 11 | 4          | 1770   | 254T  | 575            | 60          | 3        | 16.2         |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56 | F          | 1.15   | CONT  | 92.4           | B           |          | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 15.00 | 11.2 | 16.2    | 92.5           | 75.1             |
| ¾ Load       | 11.25 | 8.4  | 12.9    | 91.7           | 71.0             |
| ½ Load       | 7.50  | 5.6  | 10.1    | 89.5           | 62.0             |
| ¼ Load       | 3.75  | 2.8  | 8.1     | 82.1           | 42.2             |
| No Load      |       |      | 7.8     |                |                  |
| Locked Rotor |       |      | 93      |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 44.5              | 230                  | 165             | 265                | 2.32                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |          | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|----------|----------------------------|
| Cold               | Hot |                           | DE        | NDE      |                            |
| 35                 | 15  | -                         | 6309ZZC3  | 6309ZZC3 | 373                        |

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

**Motor Options:**  
Product Family:EQP Global Explosion Proof  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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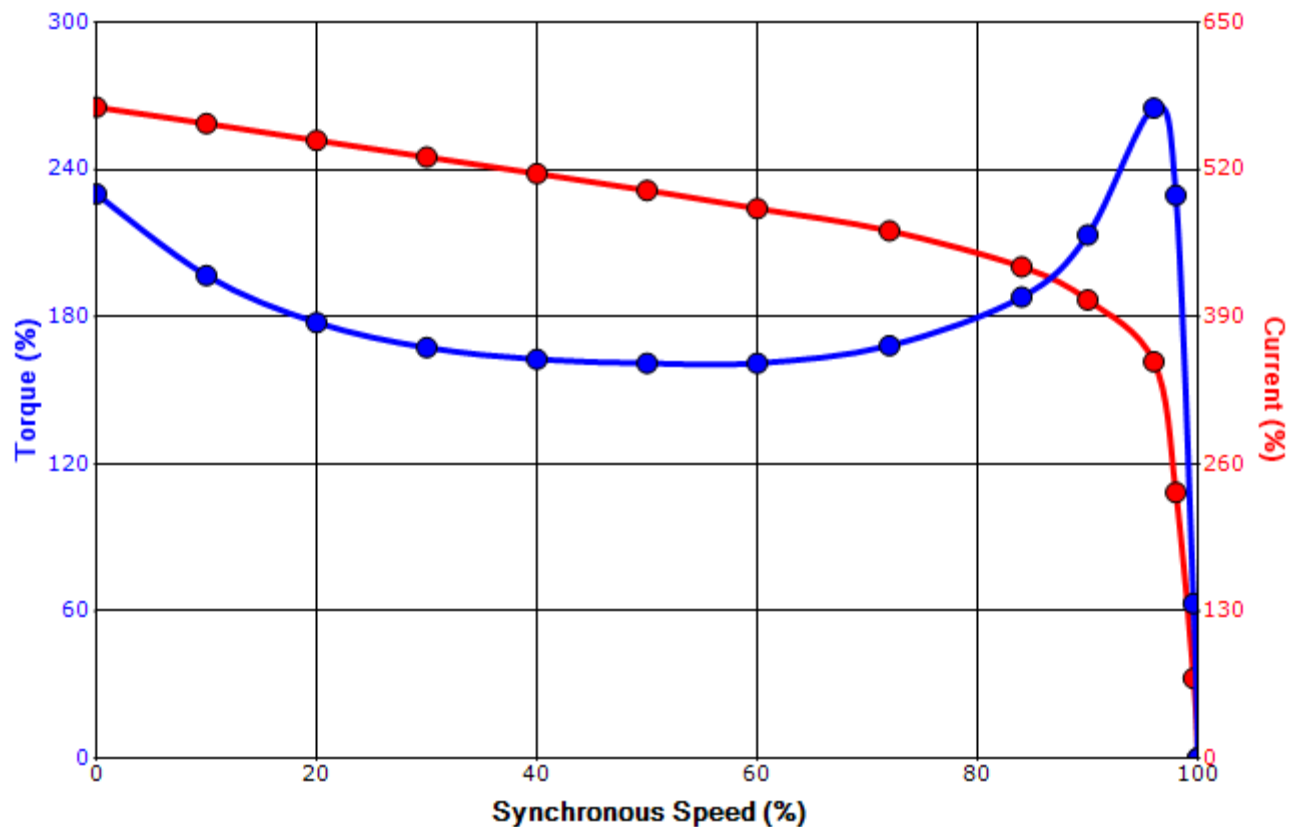
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | Jrodrigu  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 8/29/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 0154XPEC41A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 15                | 11                                                  | 4                 | 1770             | 254T        | 575            | 60             | 3        | 16.2         |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 92.4           | B              |          | 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 (%) |          |              |
| 93                | 2.32                                                | 44.5              | 230              | 165         |                | 265            |          |              |

### 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 | Jrodrigu  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 8/29/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation