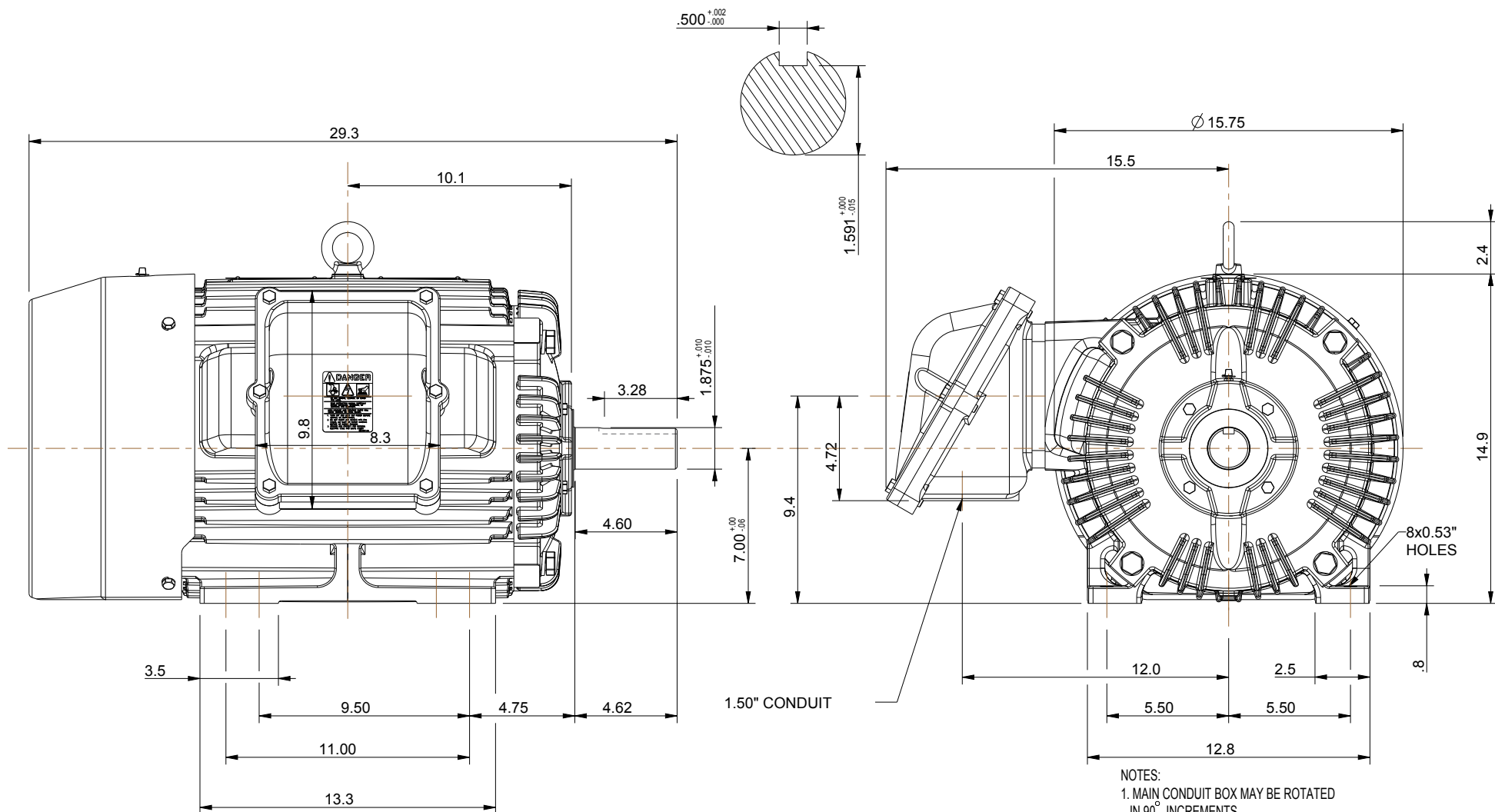




UNITS: INCHES

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## 280T TEXP FRAME F1 ASSEMBLY

MDSL800-05

# TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

### TOLERANCES

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

### MAXIMUM MOTOR WEIGHT

550 lbs.  
249 kgs.

| NO | REVISION                               | DRAWN BY | DATE     | CHECK |
|----|----------------------------------------|----------|----------|-------|
| 1  | CHANGED T-BOX & BEARING BRACKETS (P/N) | MO       | 04/03/14 | JR    |
| 0  | FIRST ISSUE                            | MO       | 09/13/12 | 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: 0254XPEA41A-P

| HP        | kW   | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|------|------------|--------|-------|----------------|-------------|----------|--------------|
| 25        | 18.5 | 4          | 1775   | 284T  | 230/460        | 60          | 3        | 60/30        |
| 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           |          | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 25.00 | 18.6 | 30      | 93.9           | 82.5             |
| ¾ Load       | 18.75 | 14.0 | 23      | 93.1           | 79.1             |
| ½ Load       | 12.50 | 9.3  | 18.1    | 91.0           | 71.1             |
| ¼ Load       | 6.25  | 4.7  | 13.6    | 84.0           | 50.9             |
| No Load      |       |      | 12.0    |                |                  |
| Locked Rotor |       |      | 197     |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 74.0              | 220                  | 155             | 300                | 5.70                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6310C3    | 6310C3 | 584                        |

\*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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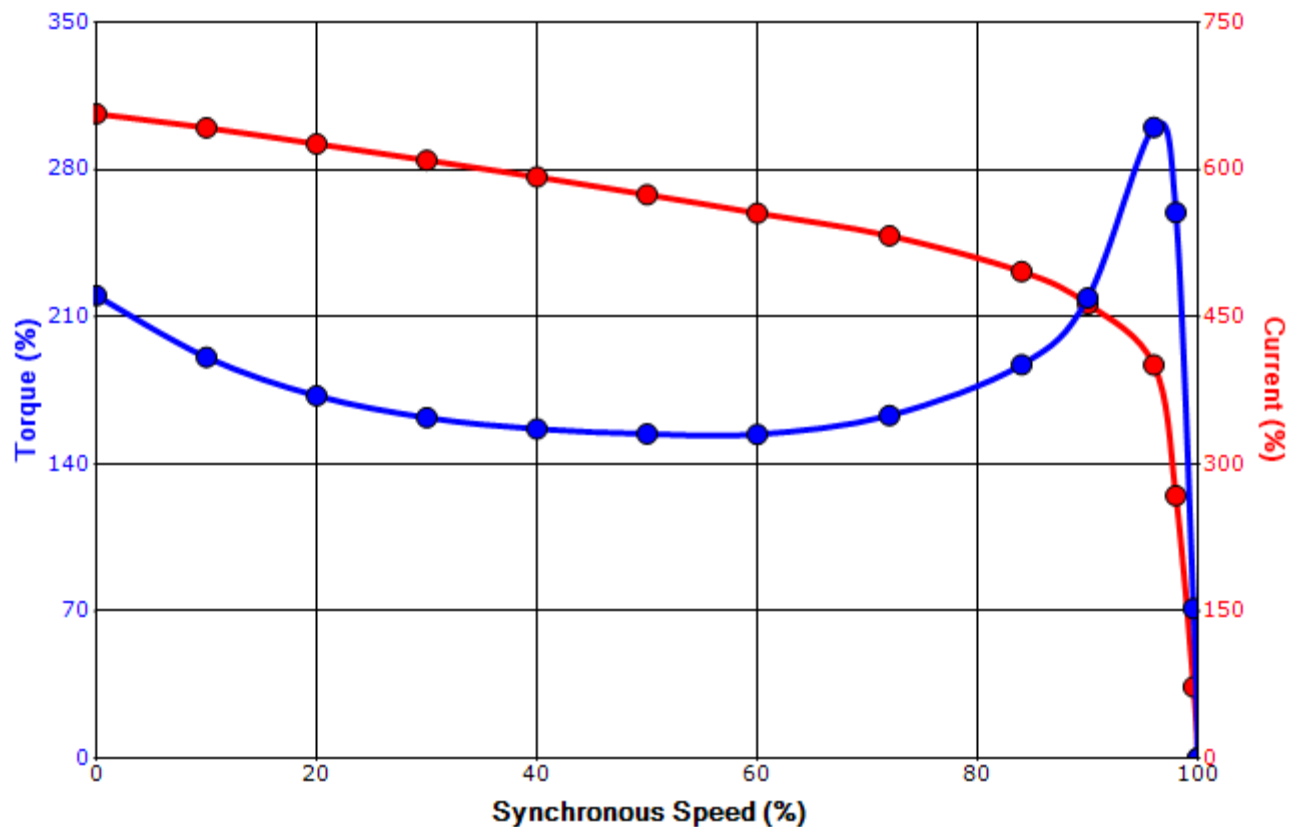
|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | Jrodrigu | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 9/3/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 0254XPEA41A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| 25                | 18.5                                                | 4                 | 1775             | 284T        | 230/460        | 60          | 3        | 60/30        |
| 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           |          | 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 (%) |             |          |              |
| 197               | 5.70                                                | 74.0              | 220              | 155         | 300            |             |          |              |

### 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.

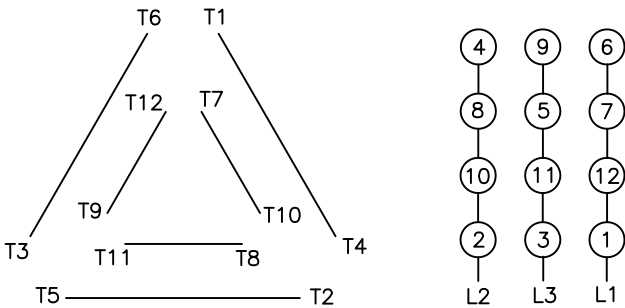
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|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | Jrodrigu | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 9/3/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

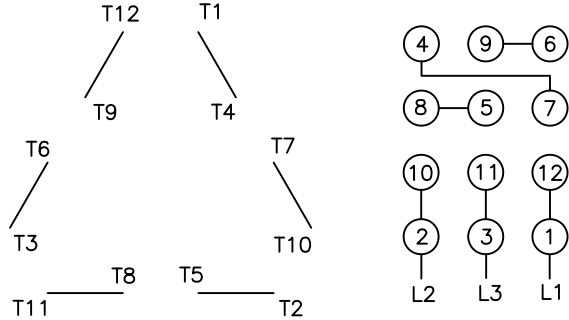
**Motor Connection Diagrams**  
12 Leads

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.