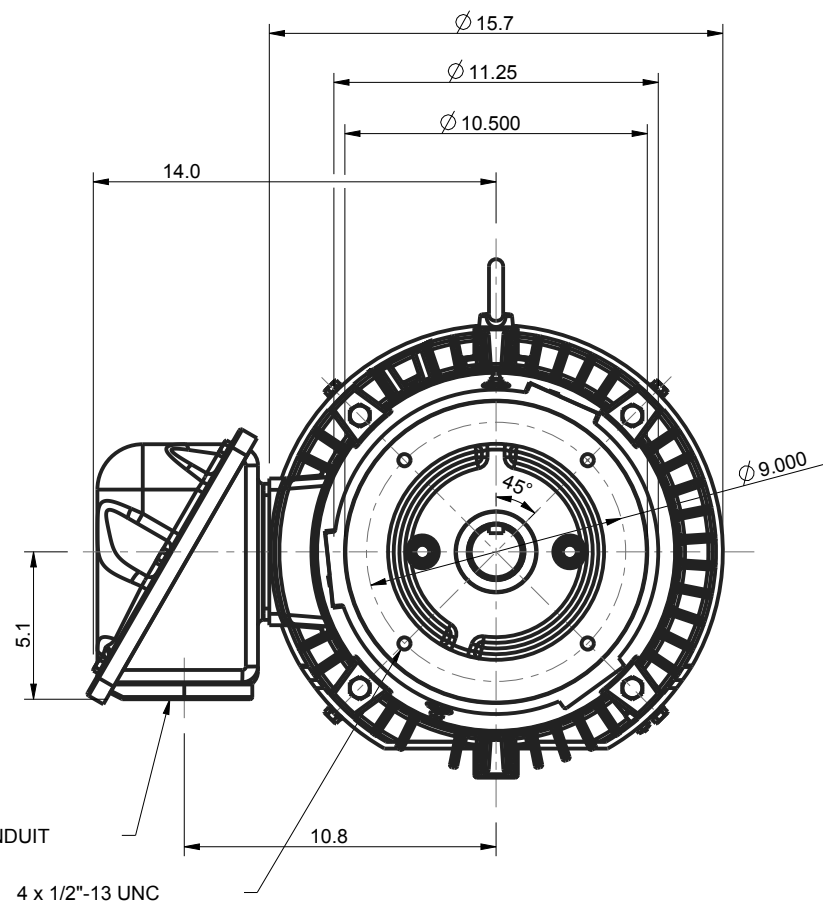
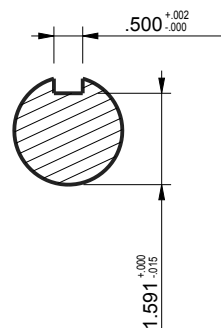
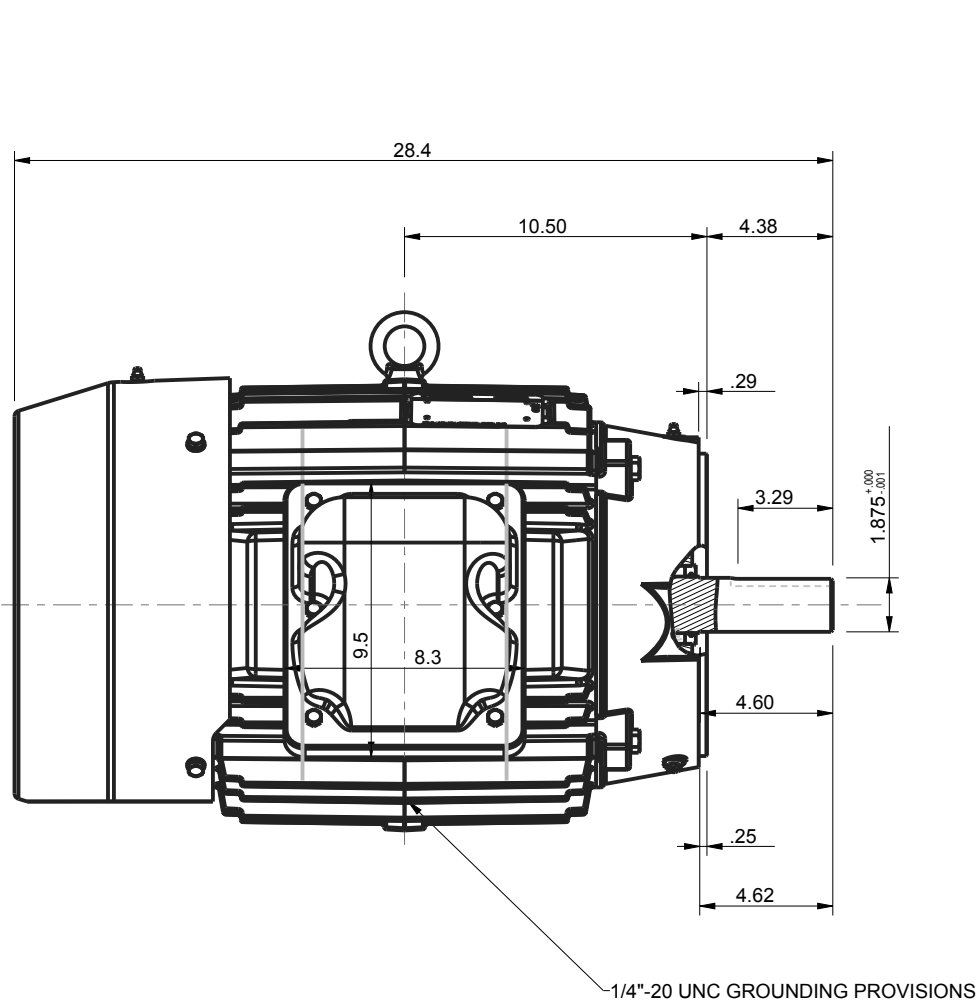
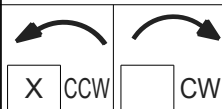




UNITS: INCHES

ROTATION FROM NDE



NOTES:

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

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE

☐ PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED

☒ CERTIFIED

**TOSHIBA**

www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION

PETRO-CHEMICAL DUTY



TOTALLY ENCLOSED FAN COOLED  
ROUND BODY C-FACED  
3 PHASE INDUCTION MOTOR  
284TC-286TC F1 ASSEMBLY

DRAWING #: MDSL285-05

REV. DATE: 07/06/18 REV. #: 2 PER.: M. O'DOWD

REV. DESCRIP.:

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0254XDSC44A-P

| HP        | kW   | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|------|------------|--------|-------|----------------|-------------|----------|--------------|
| 25        | 18.5 | 4          | 1770   | 284TC | 575            | 60          | 3        | 24.00        |
| 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    | 25    | 18.6 | 24.0    | 93.6           | 83.5             |
| ¾ Load       | 18.75 | 14.0 | 18.3    | 93.2           | 80.6             |
| ½ Load       | 12.50 | 9.3  | 13.7    | 91.5           | 73.1             |
| ¼ Load       | 6.25  | 4.7  | 10.1    | 84.2           | 54.7             |
| No Load      |       |      | 8.7     |                | 5.6              |
| Locked Rotor |       |      | 146     |                | 34.4             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 74.2              | 185                  | 170             | 295                | 5.23                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6310C3    | 6310C3 | 550                        |

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

### Motor Options:

Mounting:C-Face Round,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

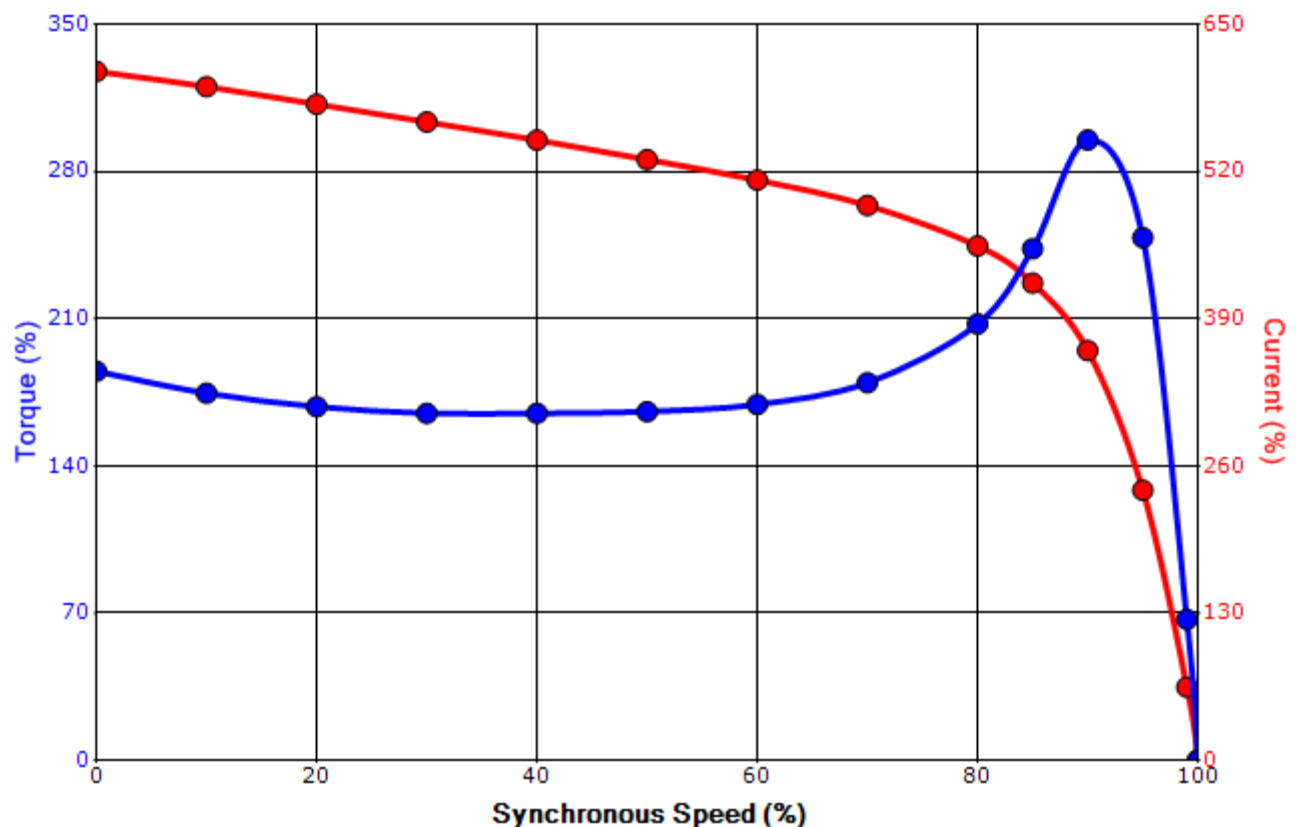
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 3/13/2014 |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

# SPEED TORQUE/CURRENT CURVE

Model: 0254XDSC44A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 25                | 18.5                                                | 4                 | 1770             | 284TC       | 575            | 60             | 3        | 24.00        |
| 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 (%) |          |              |
| 146               | 5.23                                                | 74.2              | 185              | 170         |                | 295            |          |              |

## 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.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| 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.