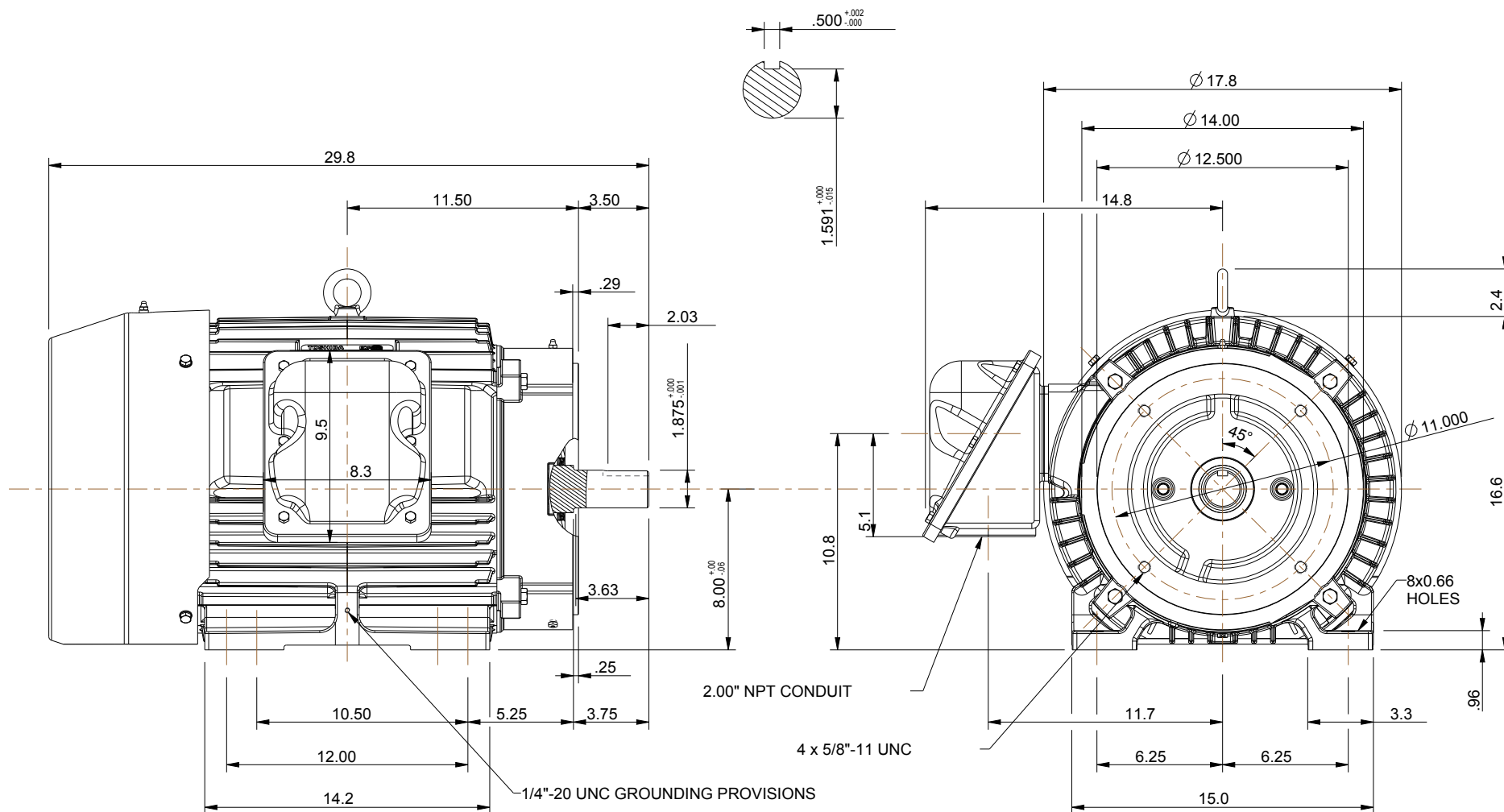




# NOTES:

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)

0.500" x 0.500" x 2.00"

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.

|                                                            |                                                                   |   |                                 |   |             |    |          |    |          |    |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------------------|-------------------------------------------------------------------|---|---------------------------------|---|-------------|----|----------|----|----------|----|----|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>320TSC TEFC FRAME<br/>F1 ASSEMBLY</b>                   | <b>TOLERANCES</b><br>.X .1<br>.XX .03<br>.XXX .005<br>.XXXX .0005 |   |                                 |   |             |    |          |    |          |    |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| MDSL086-06                                                 | <b>MAXIMUM<br/>MOTOR WEIGHT</b><br>651 lbs.<br>295 kgs.           | 1 | CHANGED "H" DIMENSION FROM 0.67 | 0 | FIRST ISSUE | NO | REVISION | MO | 04/23/14 | JR | JR | 01/20/11 | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR | JR |
| <b>TOSHIBA</b><br><b>TOSHIBA INTERNATIONAL CORPORATION</b> |                                                                   |   |                                 |   |             |    |          |    |          |    |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**EQP Global 841**  
**XT SERIES**

DRAWN BY: N. MOMIN  
CHECK BY: J. RUSSELL  
APPROVED BY: \_\_\_\_\_  
www.toshiba.com/ind

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0502XDSB42B-P

| HP        | kW | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|--------|----------------|-------------|----------|--------------|
| 50        | 37 | 2          | 3540   | 326TSC | 460            | 60          | 3        | 58           |
| Enclosure | IP | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56 | F          | 1.15   | CONT   | 93             | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 50    | 37.3 | 58.0    | 93.0           | 88.2             |
| ¾ Load       | 37.50 | 28.0 | 43.9    | 92.2           | 85.7             |
| ½ Load       | 25.00 | 18.6 | 31.6    | 90.2           | 80.5             |
| ¼ Load       | 12.50 | 9.3  | 21.1    | 85.1           | 65.0             |
| No Load      |       |      | 13.7    |                |                  |
| Locked Rotor |       |      | 362.00  |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 74.2              | 250                  | 215             | 260                | 6.39                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 16                 | 7.7 | -                         | 6312C3    | 6312C3 |                            |

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

### Motor Options:

Product Family:EQP Global 841 CFace Footed  
Mounting:C-Face Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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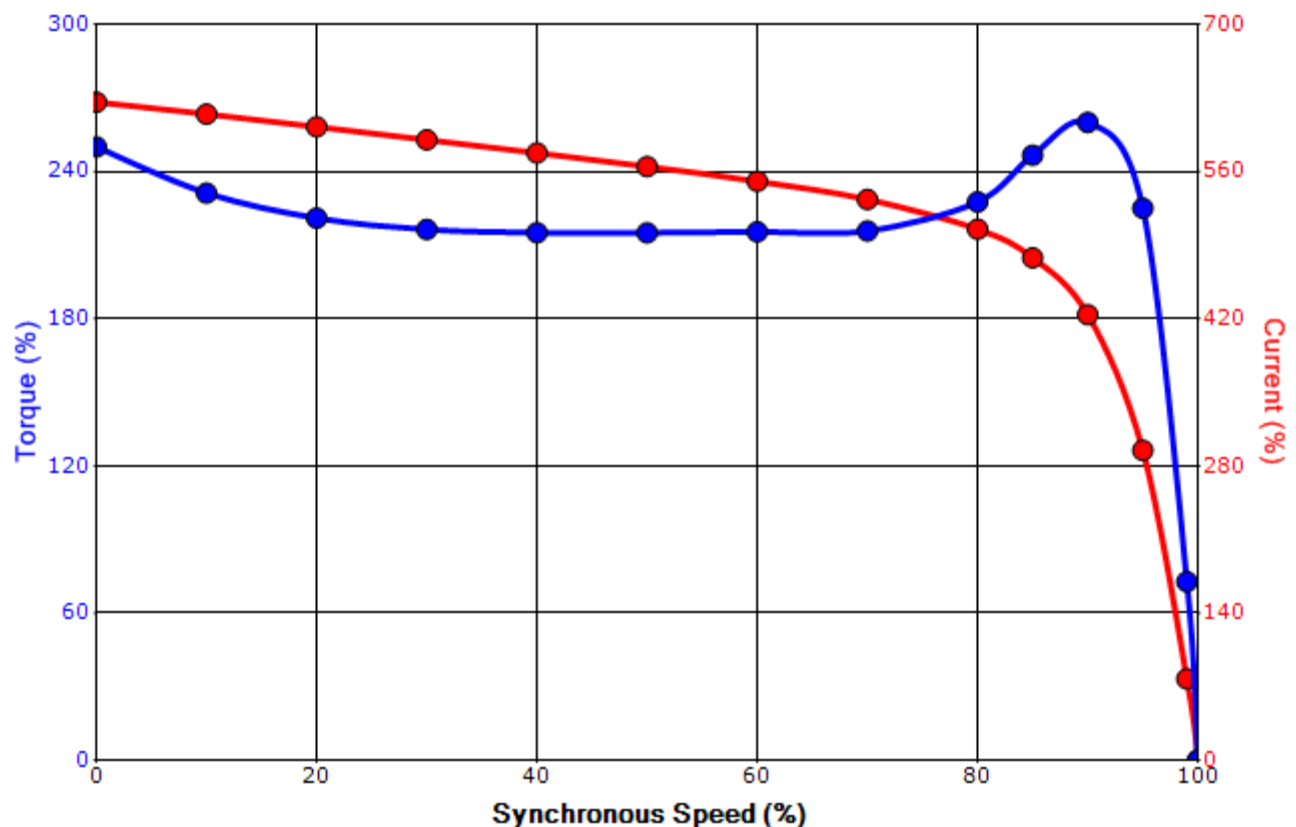
|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/7/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

# SPEED TORQUE/CURRENT CURVE

Model: 0502XDSB42B-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 50                | 37                                                  | 2                 | 3540             | 326TSC      | 460            | 60             | 3        | 58           |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 93             | 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 (%) |          |              |
| 362.00            | 6.39                                                | 74.2              | 250              | 215         |                | 260            |          |              |

## 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 | jaustin  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 7/7/2014 | 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.