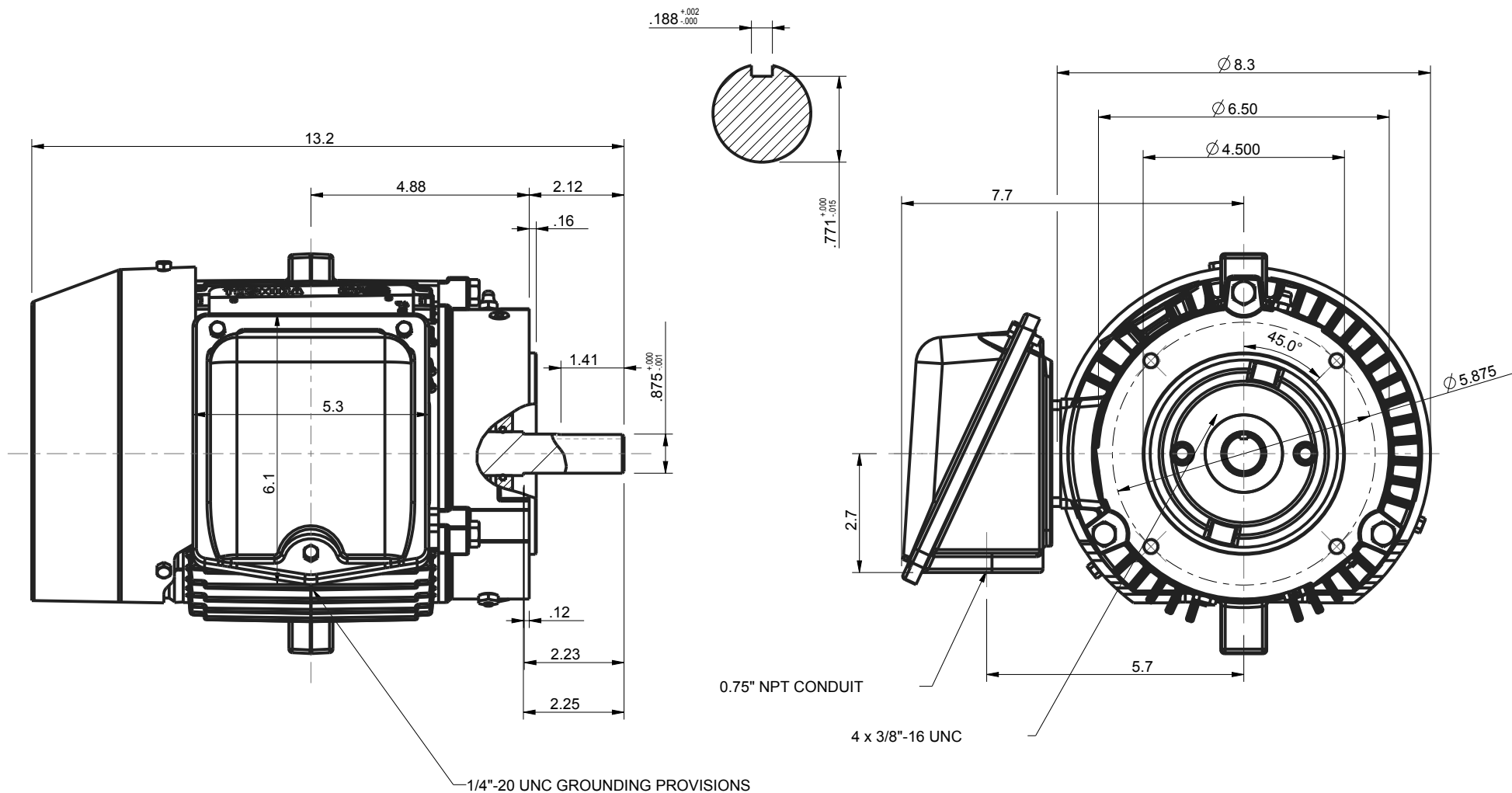




|                                                                                                                                                      |                                                                                                                                           |                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNITS: INCHES                                                                                                                                        |                                                                                                                                           | NOTES:<br><br>1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS<br>2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.<br>3. KEY DIMENSIONS EQUAL 0.188"x 0.188"x 1.38" (MOTOR SUPPLIED WITH KEY) |
| ROTATION FROM NDE                                                                                                                                    |                                                                                                                                           |                                                                                                                                                                                                                                                      |
| <div><br/><div><input checked="" type="checkbox"/> CCW</div></div> | <div><br/><div><input type="checkbox"/> CW</div></div> |                                                                                                                                                                                                                                                      |

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| <p><b>TOSHIBA</b></p> <p>www.toshiba.com/tic</p> <p>TOSHIBA INTERNATIONAL CORPORATION</p> | <p>PETRO-CHEMICAL DUTY</p> <p><b>EQP Global 841</b></p> | <p>TOTALLY ENCLOSED FAN COOLED</p> <p>ROUND BODY C-FACED</p> <p>3 PHASE INDUCTION MOTOR</p> <p>143TC-145TC F1 ASSEMBLY</p> | <p>DRAWING #: MDSLV285-01</p> <p>REV. DATE: 06/21/18 REV. #: 3 PER.: M. O'DOWD</p> <p>REV. DESCRIP.: _____</p> |
|                                                                                           |                                                         |                                                                                                                            |                                                                                                                |
|                                                                                           |                                                         |                                                                                                                            |                                                                                                                |

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0024XDSC44A-P

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 2         | 1.5 | 4          | 1750   | 145TC | 575            | 60          | 3        | 2.40         |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 86.5           | B           | K        | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 2    | 1.5 | 2.4     | 86.5           | 74.7             |
| ¾ Load       | 1.50 | 1.1 | 1.8     | 86.1           | 67.6             |
| ½ Load       | 1.00 | 0.7 | 1.5     | 83.5           | 55.3             |
| ¼ Load       | 0.50 | 0.4 | 0.9     | 79.5           | 48.1             |
| No Load      |      |     | 1.2     |                | 8.1              |
| Locked Rotor |      |     | 18      |                | 67.6             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 6                 | 255                  | 225             | 390                | 0.13                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6305C3    | 6305C3 | 73                         |

\*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.

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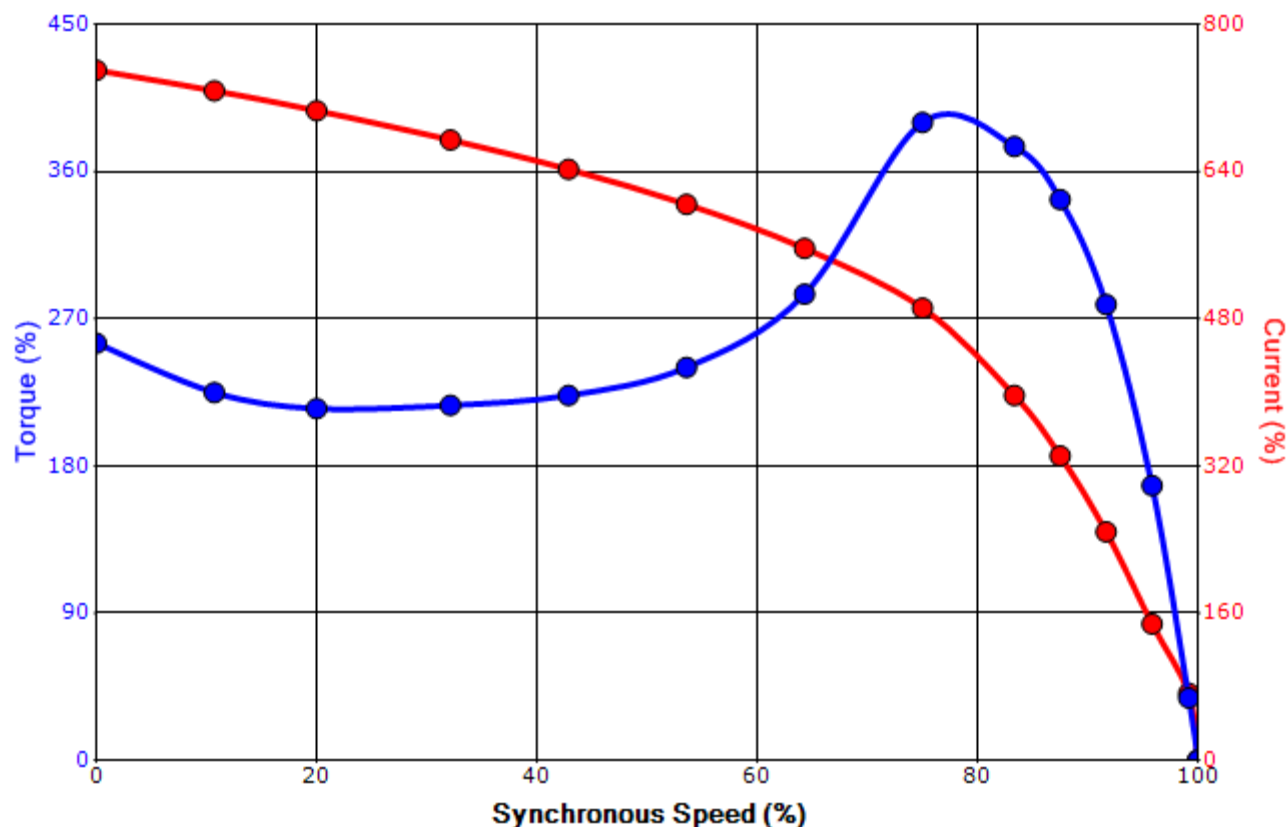
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | mcampbell | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 2/10/2012 |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

## SPEED TORQUE/CURRENT CURVE

Model: 0024XDSC44A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 2                 | 1.5                                                 | 4                 | 1750             | 145TC       | 575            | 60             | 3        | 2.40         |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 86.5           | B              | K        | 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 (%) |          |              |
| 18                | 0.13                                                | 6                 | 255              | 225         |                | 390            |          |              |

### 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.