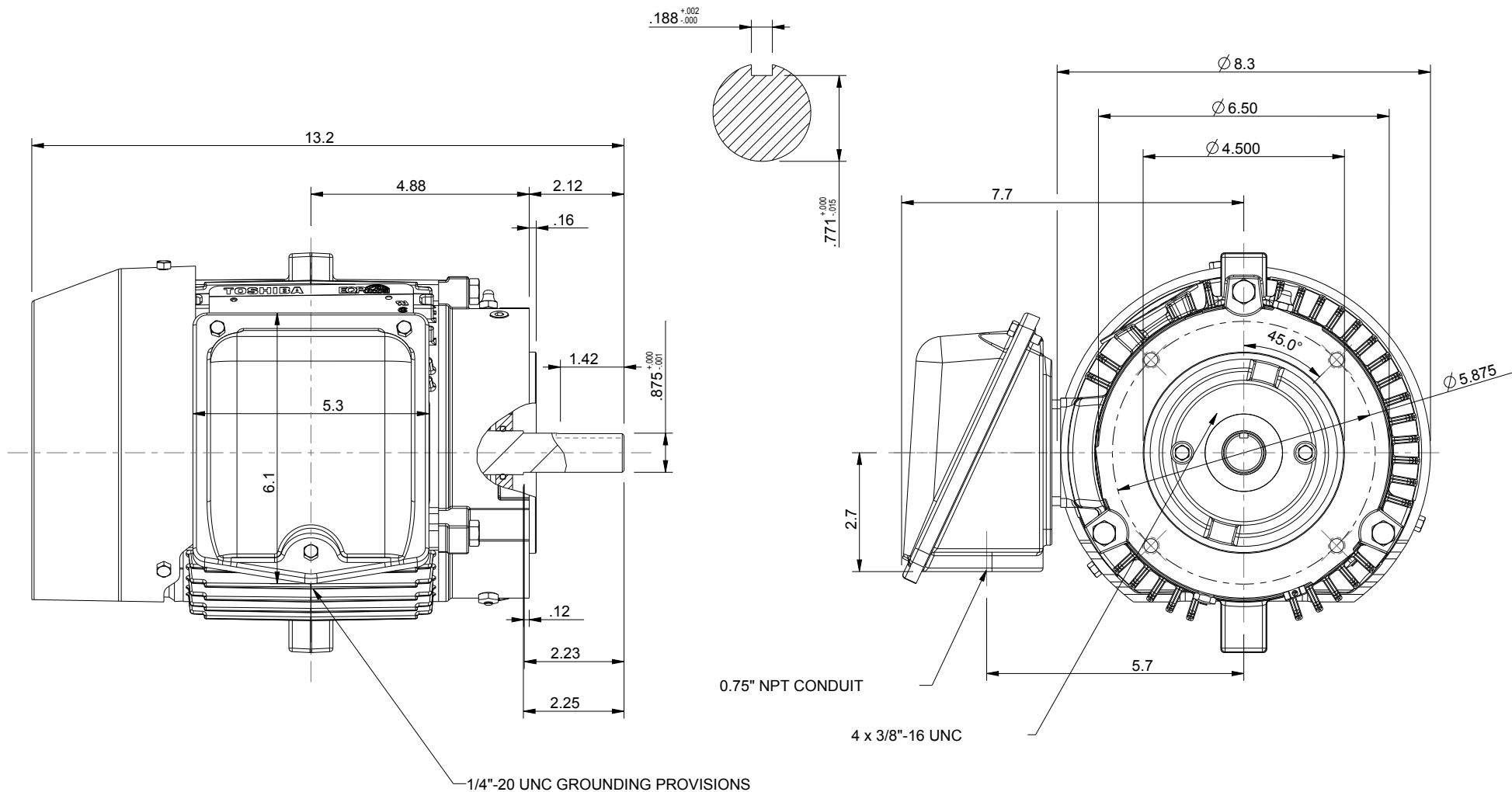




|                                                   |                                                |                                                                                                                                                                                                      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

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|                                                                                                                                                |                       |                                                                                                                                              |                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>TOSHIBA</b> PETRO-CHEMICAL DUTY<br><a href="http://www.toshiba.com/tic">www.toshiba.com/tic</a><br><b>TOSHIBA INTERNATIONAL CORPORATION</b> | <b>EQP Global 841</b> | <b>TOTALLY ENCLOSED FAN COOLED<br/>         ROUND BODY C-FACED<br/>         3 PHASE INDUCTION MOTOR<br/>         143TC-145TC F1 ASSEMBLY</b> | <b>DRAWING #:</b> MDSL285-01<br><b>REV. DATE:</b> 06/21/18 <b>REV. #:</b> 3 <b>PER.:</b> M. O'DOWD<br><b>REV. DESCRIP.:</b> |
|                                                                                                                                                |                       |                                                                                                                                              |                                                                                                                             |
|                                                                                                                                                |                       |                                                                                                                                              |                                                                                                                             |

## TYPICAL MOTOR PERFORMANCE DATA

Model: Y152XDSC44A-P

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 1.50      | 1.1 | 2          | 3525   | 143TC | 575            | 60          | 3        | 1.7          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 84.0           | B           |          | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 1.50 | 1.1 | 1.7     | 86.3           | 77.7             |
| ¾ Load       | 1.13 | 0.8 | 1.4     | 83.8           | 69.8             |
| ½ Load       | 0.75 | 0.6 | 1.2     | 78.0           | 57.2             |
| ¼ Load       | 0.38 | 0.3 | 0.6     | 71.6           | 60.1             |
| No Load      |      |     | 0.9     |                |                  |
| Locked Rotor |      |     | 16.0    |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 2.24              | 330                  | 225             | 320                | 0.06                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 31                 | 15  | -                         | 6305C3    | 6305C3 | 62                         |

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

**Motor Options:**  
Product Family:EQP Global 841  
Mounting:C-Face Round,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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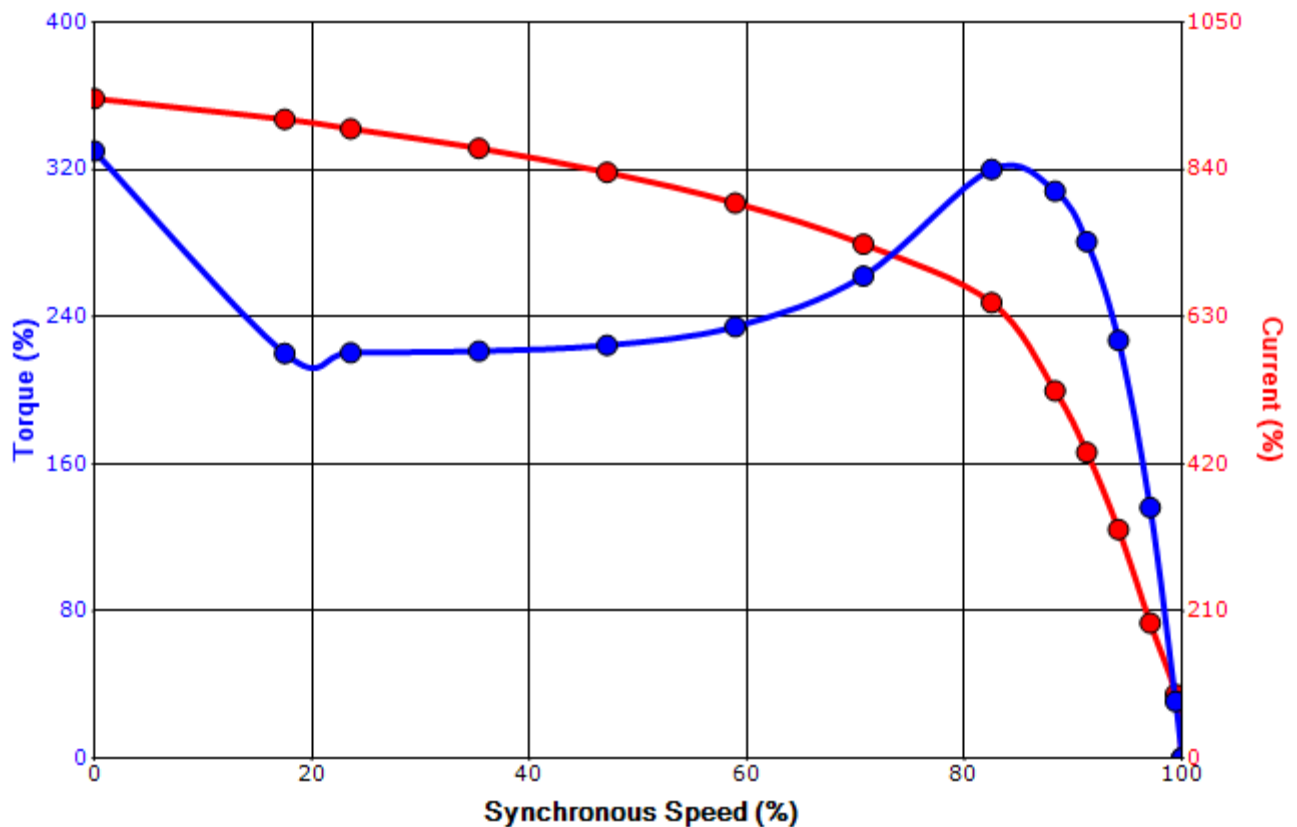
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|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrretaz | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 8/2/2024    | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: Y152XDSC44A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame | Voltage        | Hz          | Phase          | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| 1.50              | 1.1                                                 | 2                 | 3525             | 143TC | 575            | 60          | 3              | 1.7          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code       | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT  | 84.0           | 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 (%) |              |
| 16.0              | 0.06                                                | 2.24              | 330              |       | 225            |             | 320            |              |

### 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.

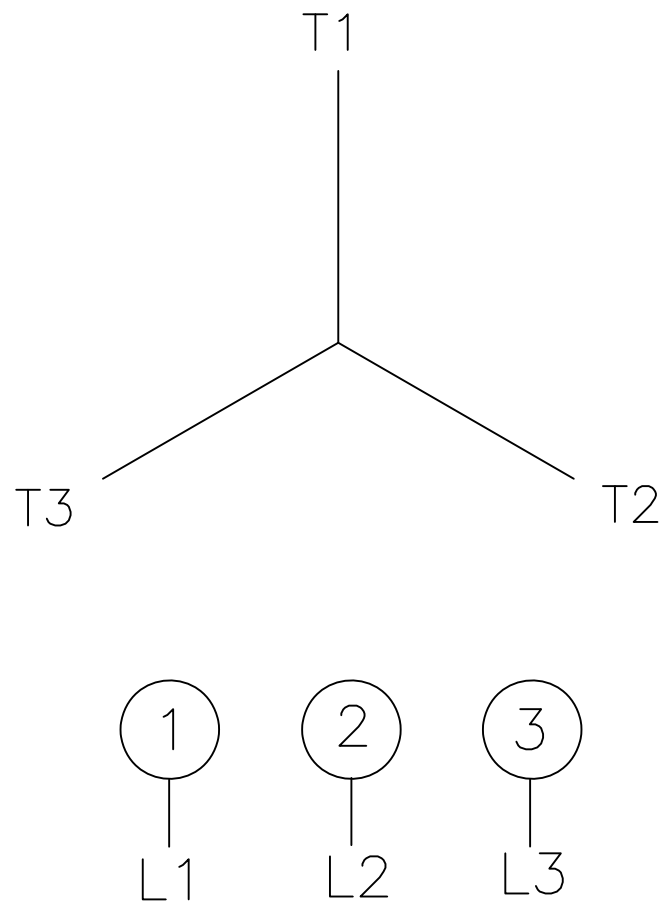
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|             |             |                  |             |             |               |
|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrettaz | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 8/2/2024    | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

# Motor Connection Diagram

## 3 Leads - Wye Connection

### Single Voltage



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.