

Scale:3.0

UNITS: INCHES  
ROTATION FROM NDE

CCW  CW

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 5/8"-5/8"-3" (MOTOR SUPPLIED WITH KEY)
4. AIR DEFLECTOR TO BE USED ON 2P-150HP & 2P 125HP MOTORS

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** MILL & CHEMICAL DUTY **EQP Global 840**  
www.toshiba.com/tic  
TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED  
HORIZONTAL FOOT MOUNT  
3 PHASE INDUCTION MOTOR  
S444/5TS F1 ASSEMBLY

DRAWING #: MDSL V701-11  
REV. DATE: 03/16/23 REV. #: 0 PER.: S.NGO  
REV. DESCRIP.: ADD AIR DEFLECTOR

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 1252XSSC41B-P

|           |    |            |        |        |                |             |          |              |
|-----------|----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP        | kW | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
| 125       | 90 | 2          | 3575   | S444TS | 575            | 60          | 3        | 110          |
| Enclosure | IP | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56 | F          | 1.15   | CONT   | 95.0           | B           |          | 40 C         |

| Load         | HP     | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|------|---------|----------------|------------------|
| Full Load    | 125.00 | 93.2 | 109     | 95.7           | 89.0             |
| ¾ Load       | 93.75  | 69.9 | 83      | 94.8           | 88.5             |
| ½ Load       | 62.50  | 46.6 | 58      | 92.7           | 85.9             |
| ¼ Load       | 31.25  | 23.3 | 36      | 86.6           | 74.8             |
| No Load      |        |      | 29.1    |                |                  |
| Locked Rotor |        |      | 663     |                | 24.6             |

| Torque               |                         |                    |                       | Rotor wk <sup>2</sup><br>Inertia<br>(lb-ft <sup>2</sup> ) |
|----------------------|-------------------------|--------------------|-----------------------|-----------------------------------------------------------|
| Full Load<br>(lb-ft) | Locked Rotor<br>(% FLT) | Pull Up<br>(% FLT) | Break Down<br>(% FLT) |                                                           |
| 184                  | 150                     | 110                | 255                   | 40.39                                                     |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |        | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE    |                               |
| 35                 | 15  | 84                           | 6313C3    | 6313C3 |                               |

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

**Motor Options:**  
Product Family:EQP Global 840  
Mounting:Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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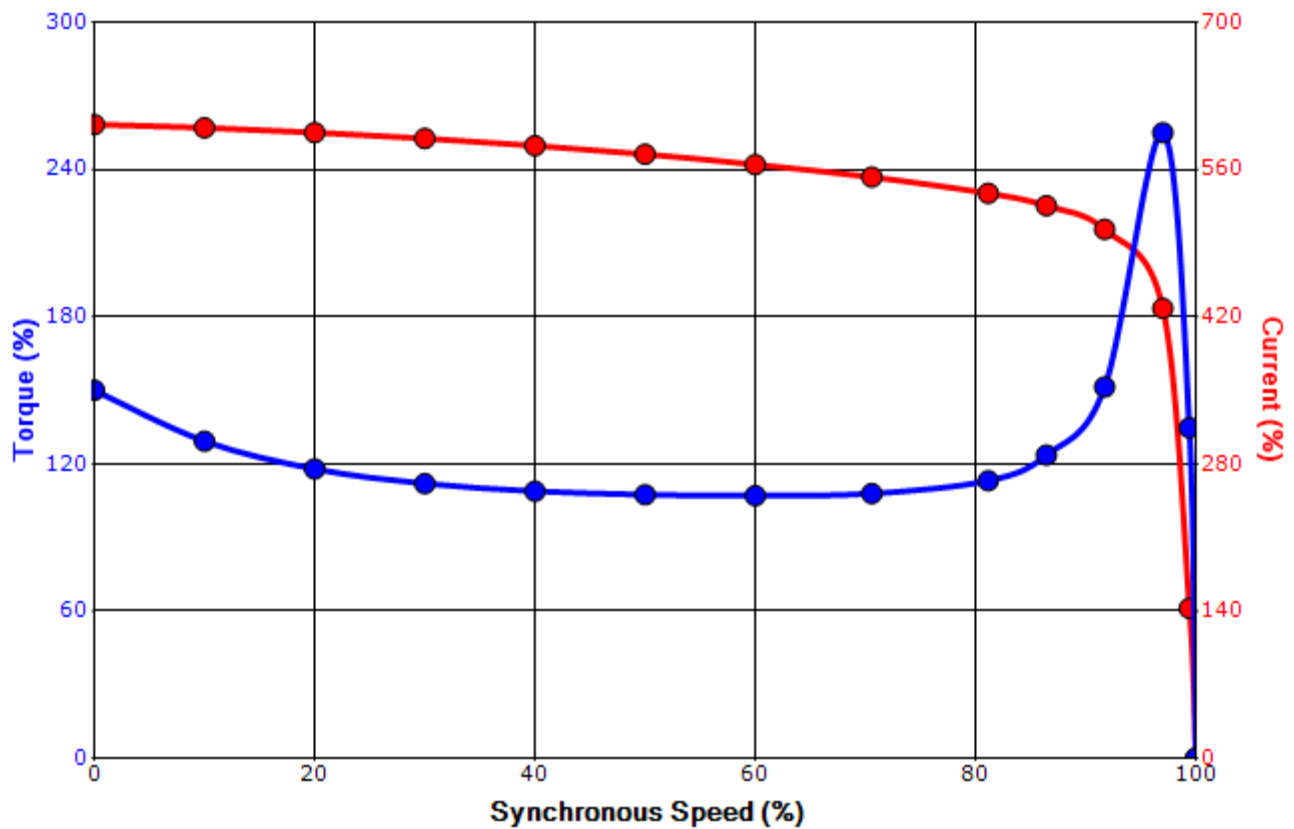
|             |            |                  |             |             |               |
|-------------|------------|------------------|-------------|-------------|---------------|
| Engineering | mccampbell | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 11/7/2018  | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: 1252XSSC41B-P

|                   |                                                     |                   |                  |             |                |             |          |                |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 125               | 90                                                  | 2                 | 3575             | S444TS      | 575            | 60          | 3        | 110            |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 95.0           | B           |          | 40 C           |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          | Break Down (%) |
|                   |                                                     | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                |             |          |                |
| 663               | 40.39                                               | 184               | 150              | 110         |                |             | 255      |                |

**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  | 11/7/2018 | 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.