

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 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

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SEVERE DUTY  
**EQP Global SD**

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

DRAWING #: MDSL205-05  
 REV. DATE: 07/05/18 REV. #: 1 PER.: M. O'DOWD  
 REV. DESCRIP.:



|             |           |            |  |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # |  |
| Issued By   | dschoeck  | Issued Rev |  |

### TYPICAL MOTOR PERFORMANCE DATA

Model: 0254SDSC44A-P

|           |      |            |        |       |                |             |          |              |
|-----------|------|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW   | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 25        | 18.5 | 4          | 1770   | 284TC | 575            | 60          | 3        | 24           |
| Enclosure | IP   | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55   | 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 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) |   |
| 74.2                 | 185                     | 170                | 295                   | 5.23  |

|                    |     |                              |           |         |                               |
|--------------------|-----|------------------------------|-----------|---------|-------------------------------|
| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |         | Approx. Motor Weight<br>(lbs) |
| Cold               | Hot |                              | DE        | NDE     |                               |
| 35                 | 15  | -                            | 6310ZC3   | 6310ZC3 | 0                             |

\*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 | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date  | 3/13/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019     |



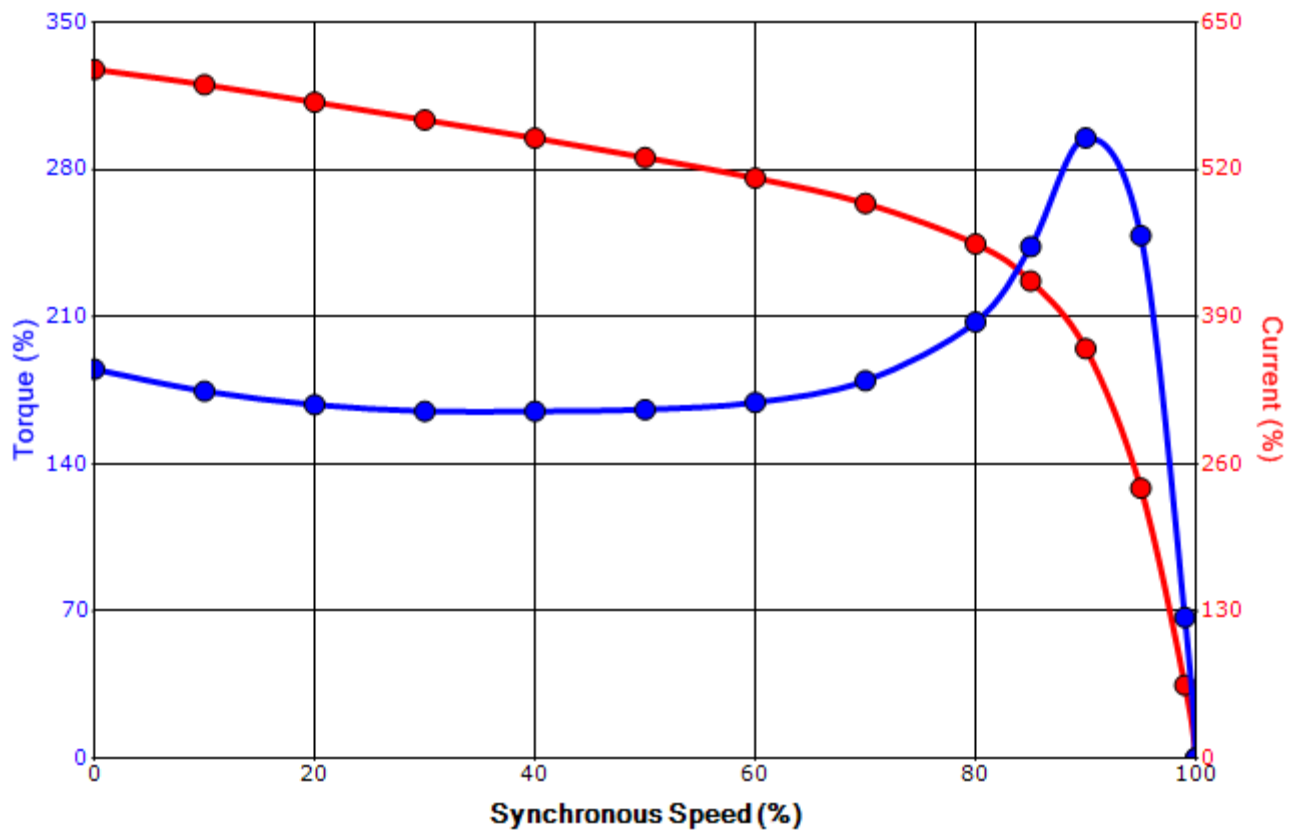
|             |           |            |  |
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### SPEED TORQUE/CURRENT CURVE

Model: 0254SDSC44A-P

|                   |   |                   |                  |       |                |             |                |              |
|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame | Voltage        | Hz          | Phase          | FL Amps      |
| 25                | 18.5  | 4                 | 1770             | 284TC | 575            | 60          | 3              | 24           |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code       | Ambient (°C) |
| TEFC              | 55  | 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            |                  |       |                | Pull Up (%) | Break Down (%) |              |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) |       |                |             |                |              |
| 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.

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|             |           |                  |             |             |             |
|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date  | 3/13/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019   |

**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation