

1.25" NPT CONDUIT

- 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)
- 0.375" x 0.375" x 2.88"

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.

250T TEFC FRAME  
F3 ASSEMBLY

MDSL019-04

**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

|       |       |
|-------|-------|
| .X    | .1    |
| .XX   | .03   |
| .XXX  | .005  |
| .XXXX | .0005 |

MAXIMUM MOTOR WEIGHT

340 lbs.  
154 kgs.

|    |  |                |          |       |
|----|--|----------------|----------|-------|
| 0  | FIRST ISSUE (MANUALLY UPDATE 'S' DIM.) | M. EASTERBROOK | 03/27/13 | JR    |
| NO | REVISION                               | DRAWN BY       | DATE     | CHECK |



DRAWN BY: M. EASTERBROOK  
 CHECK BY: J. RUSSELL  
 APPROVED BY: \_\_\_\_\_  
 www.toshiba.com/ind



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

### TYPICAL MOTOR PERFORMANCE DATA

Model: 0154SDSC41A-P3

|           |    |            |        |       |                |             |          |              |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 15        | 11 | 4          | 1770   | 254T  | 575            | 60          | 3        | 15.2         |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55 | F          | 1.15   | CONT  | 92.4           | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 15    | 11.2 | 15.2    | 92.6           | 81.0             |
| ¾ Load       | 11.25 | 8.4  | 11.4    | 92.2           | 78.3             |
| ½ Load       | 7.50  | 5.6  | 8.6     | 90.4           | 70.9             |
| ¼ Load       | 3.75  | 2.8  | 6.4     | 83.3           | 52.6             |
| No Load      |       |      | 5.7     |                | 6.2              |
| Locked Rotor |       |      | 92      |                | 42.4             |

| 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) |   |
| 44.5                 | 240                     | 185                | 265                   | 2.33  |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |          | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|----------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE      |                               |
| 30                 | 21  | -                            | 6309ZZC3  | 6309ZZC3 | 317                           |

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

**Motor Options:**  
 Product Family:EQP Global SD  
 Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date  | 3/10/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019     |



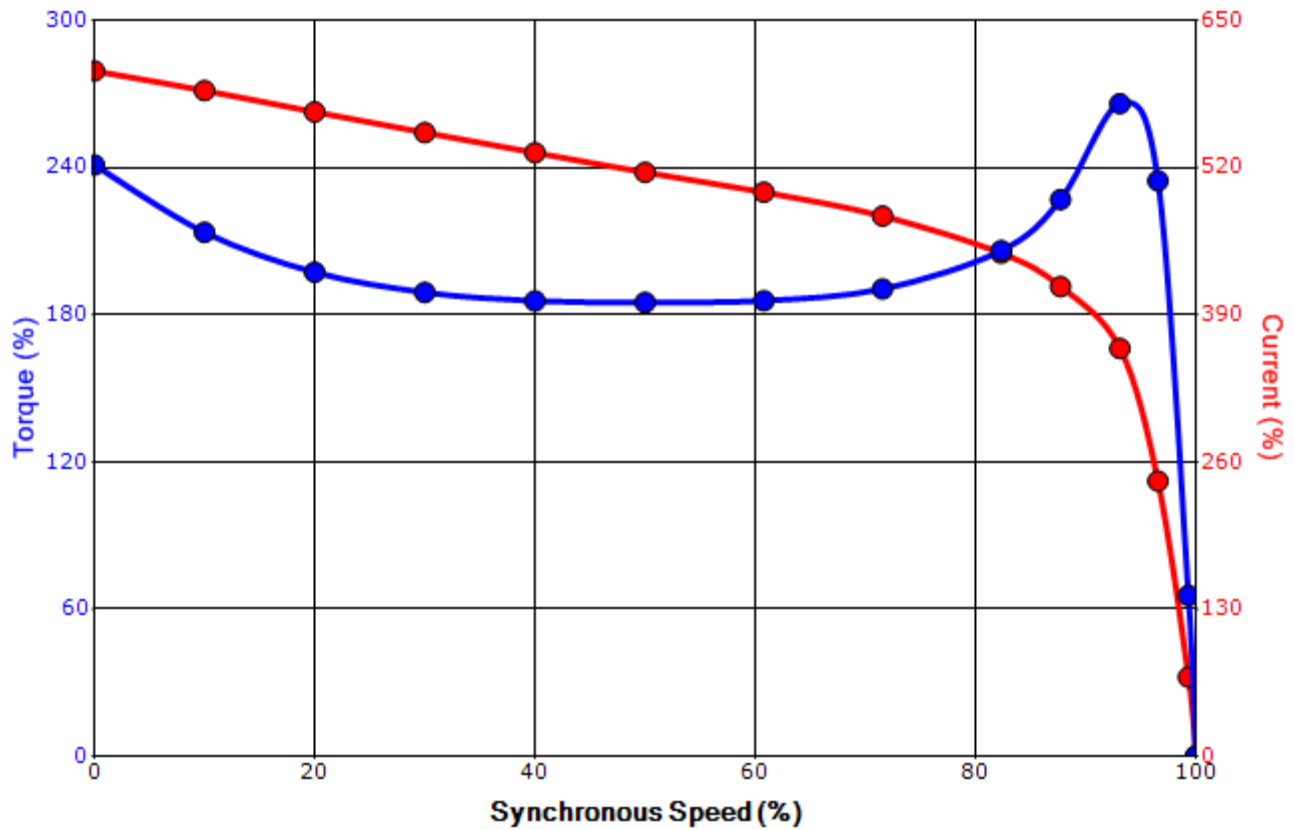
|             |           |            |  |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # |  |
| Issued By   | dschoeck  | Issued Rev |  |

### SPEED TORQUE/CURRENT CURVE

Model: 0154SDSC41A-P3

|                   |   |                   |                  |             |                |             |          |              |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps      |
| 15                | 11  | 4                 | 1770             | 254T        | 575            | 60          | 3        | 15.2         |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC              | 55  | F                 | 1.15             | CONT        | 92.4           | 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 (%) |             |          |              |
| 92                | 2.33  | 44.5              | 240              | 185         | 265            |             |          |              |

### 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:

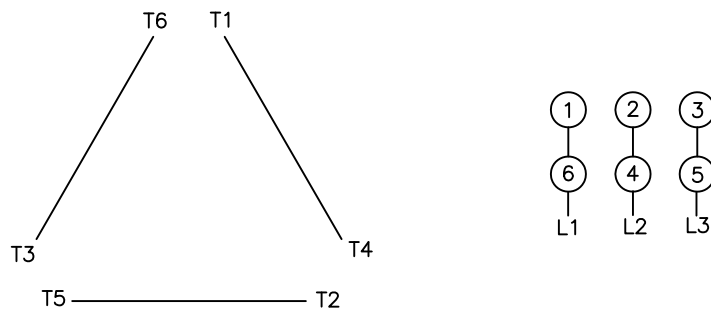
All characteristics are average expected values.

#### TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

|             |           |                  |             |             |             |
|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | jhock     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date  | 3/10/2014 | 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