

- 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 0.500" x 0.500" x 3.88" (MOTOR SUPPLIED WITH KEY)

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.

320T TEFC FRAME  
F3 ASSEMBLY

MDSL019-06

**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

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

MAXIMUM MOTOR WEIGHT

lbs.  
kgs.

|    |             |           |          |       |
|----|-------------|-----------|----------|-------|
| 0  | FIRST ISSUE | M. O'DOWD | 02/03/14 | JR    |
| NO | REVISION    | DRAWN BY  | DATE     | CHECK |

**XT SERIES**

DRAWN BY: M. O'DOWD  
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: 0256SDSC41A-P3

| HP        | kW   | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|------|------------|--------|-------|----------------|-------------|----------|--------------|
| 25        | 18.5 | 6          | 1180   | 324T  | 575            | 60          | 3        | 25           |
| Enclosure | IP   | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55   | F          | 1.15   | CONT  | 93             | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 25    | 18.6 | 25.0    | 93.3           | 82.3             |
| ¾ Load       | 18.75 | 14.0 | 19.2    | 93.2           | 78.2             |
| ½ Load       | 12.50 | 9.3  | 14.8    | 91.8           | 68.9             |
| ¼ Load       | 6.25  | 4.7  | 11.4    | 85.3           | 47.8             |
| No Load      |       |      | 10.0    |                | 4.9              |
| Locked Rotor |       |      | 145     |                | 45.5             |

| Torque            |                      |                 |                    | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) |
|-------------------|----------------------|-----------------|--------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |   |
| 111               | 245                  | 215             | 295                | 11.30   |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |         | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|---------|----------------------------|
| Cold               | Hot |                           | DE        | NDE     |                            |
| 35                 | 15  | -                         | 6312ZC3   | 6312ZC3 |                            |

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

Motor Options:  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | garce     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date  | 8/21/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019     |



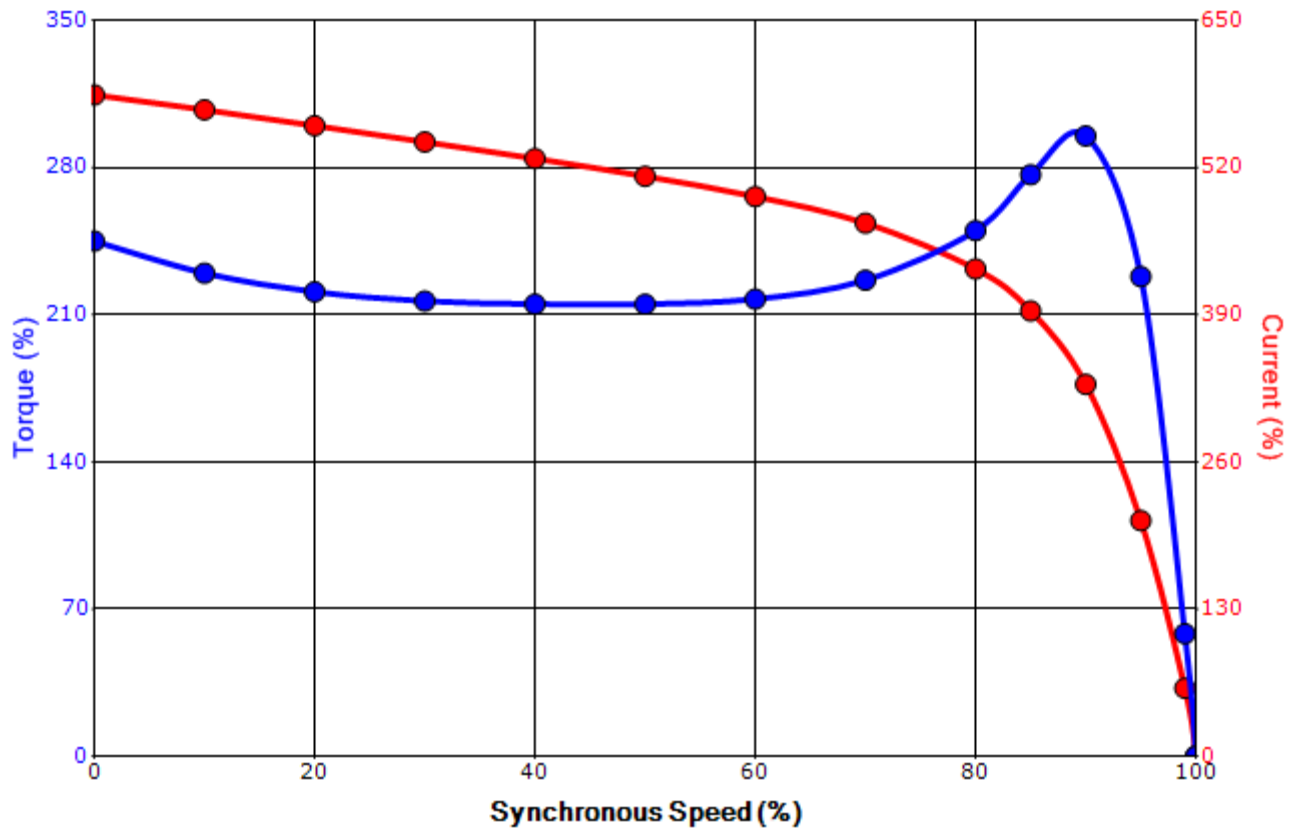
|             |           |            |  |
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### SPEED TORQUE/CURRENT CURVE

Model: 0256SDSC41A-P3

|                   |   |                   |                  |       |                |             |                |              |
|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame | Voltage        | Hz          | Phase          | FL Amps      |
| 25                | 18.5  | 6                 | 1180             | 324T  | 575            | 60          | 3              | 25           |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code       | Ambient (°C) |
| TEFC              | 55  | F                 | 1.15             | CONT  | 93             | 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 (%) |       |                |             |                |              |
| 145               | 11.30   | 111               | 245              |       | 215            | 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 | garce     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date  | 8/21/2015 | 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