

|   |                             |   |
|---|-----------------------------|---|
| UNITS: INCHES                           |                             | <b>NOTES:</b><br>1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS<br>2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.<br>3. KEY DIMENSIONS EQUAL 0.312"x 0.312"x 2.38" (MOTOR SUPPLIED WITH KEY) |
| ROTATION FROM NDE                       |                             |   |
| <input checked="" type="checkbox"/> CCW | <input type="checkbox"/> CW |   |

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY

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SEVERE DUTY  
**EQP** **SD**

TOTALLY ENCLOSED FAN COOLED  
HORIZONTAL FOOT MOUNTED  
3 PHASE INDUCTION MOTOR  
213T-215T F1 ASSEMBLY

DRAWING #: MDSL001-03  
REV. DATE: 06/26/18 REV. #: 1 PER.: M. O'DOWD  
REV. DESCRIP.:

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 0102SDSC41A-P

|           |     |            |        |       |                |             |          |              |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 10        | 7.5 | 2          | 3510   | 215T  | 575            | 60          | 3        | 9.4          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55  | F          | 1.15   | CONT  | 90.2           | B           | G        | 40 C         |

|              |      |     |         |                |                  |
|--------------|------|-----|---------|----------------|------------------|
| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 10   | 7.5 | 9.4     | 91.7           | 89.4             |
| ¾ Load       | 7.50 | 5.6 | 7.1     | 91.2           | 87.3             |
| ½ Load       | 5.00 | 3.7 | 5.2     | 89.3           | 81.3             |
| ¼ Load       | 2.50 | 1.9 | 3.7     | 81.8           | 61.7             |
| No Load      |      |     | 2.9     |                | 7.7              |
| Locked Rotor |      |     | 63      |                | 48.0             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque            |                      |                 |                    | Rotor wk <sup>2</sup>         |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft <sup>2</sup> ) |
| 15                | 265                  | 235             | 355                | 0.62                          |

|                    |     |                           |           |          |                            |
|--------------------|-----|---------------------------|-----------|----------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |          | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE        | NDE      |                            |
| 35                 | 15  | -                         | 6308ZZC3  | 6308ZZC3 | 183                        |

\*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.

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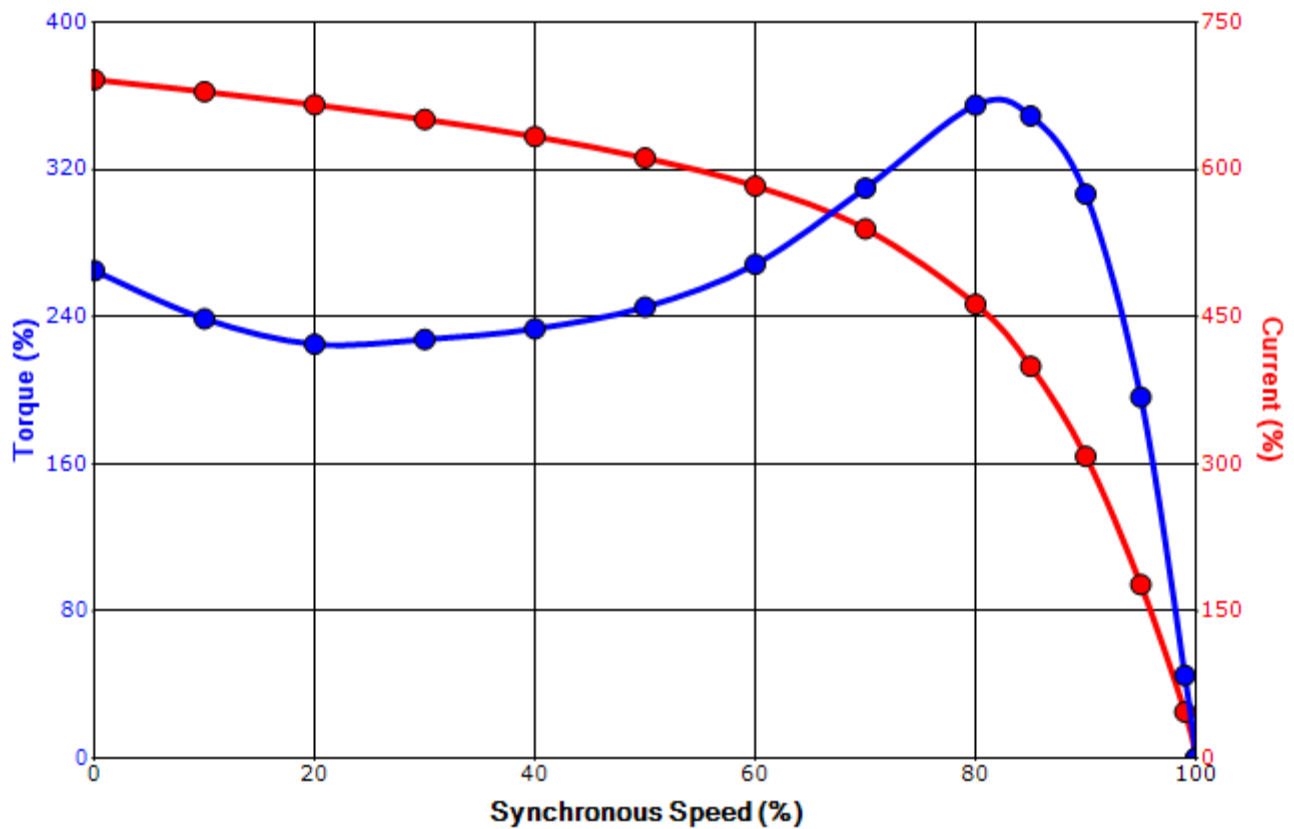
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | garce     | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 8/21/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: 0102SDSC41A-P

|                   |   |                   |                  |             |                |             |          |              |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps      |
| 10                | 7.5   | 2                 | 3510             | 215T        | 575            | 60          | 3        | 9.4          |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC              | 55  | F                 | 1.15             | CONT        | 90.2           | 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 (%) |             |          |              |
| 63                | 0.62  | 15                | 265              | 235         | 355            |             |          |              |

**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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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
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**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation