

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |       |      |       |       |                 |       |       |       |       | CONDUIT BOX |         |       |          |      |     |                |      |
|------------|------------------|-------|------|-------|-------|-----------------|-------|-------|-------|-------|-------------|---------|-------|----------|------|-----|----------------|------|
|            | A                | B     | C    | D     | G     | J               | K     | M     | O     | P     | T           | AA      | AB    | AC       | AE   | AF  | XL             | XN   |
| 5810US     | 29.6             | 40.6  | 64.4 | 14.50 | 1.6   | 7.5             | 9.9   | 25.8  | 29.3  | 29.6  | 5.8         | 4.00    | 17.64 | 22.85    | 17.5 | 9.3 | 23.4           | 13.8 |
| 5810UZ     | 29.6             | 40.6  | 67.8 | 14.50 | 1.6   | 7.5             | 9.9   | 25.8  | 29.3  | 29.6  | 5.8         | 4.00    | 17.64 | 22.85    | 17.5 | 9.3 | 23.4           | 13.8 |
| FRAME SIZE | MOUNTING         |       |      |       |       | SHAFT EXTENSION |       |       |       |       | KEY SEAT    |         |       | BEARINGS |      |     | MAXIMUM WEIGHT |      |
|            | E                | 2F    | H    | BA    | N-W   | V               | U     | R     | S     | ES    | LS          | OS      |       |          |      |     |                |      |
| 5810US     | 11.5             | 36.00 | 1.38 | 10.0  | 8.27  | 8.00            | 4.000 | 3.436 | 1.000 | 6.90  | 6322C3      | 6320C3* |       |          |      |     | 4800 lbs.      |      |
| 5810UZ     | 11.5             | 36.00 | 1.38 | 10.0  | 11.63 | 11.38           | 5.375 | 4.676 | 1.250 | 10.00 | NU2232C3    | 6320C3* |       |          |      |     |                |      |

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_ TAG NO's.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ HZ: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: ODP EQP III, EPACT, & HIGH EFFICIENCY  
 COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 PER: \_\_\_\_\_ DATE: \_\_\_\_\_

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

- STANDARD (NO AUX. BOXES)
- RTD AUX. BOX
- SPACE HEATER AUX. BOX
- BEARING RTD's

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  - KEY DIMENSIONS EQUAL S x S x 6.88 FOR US AND S x S x 10.00 (MOTOR SUPPLIED WITH KEY)
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  - OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  - \*INSULATED BEARING

**TOSHIBA**  
 TOSHIBA INTERNATIONAL CORPORATION  
 OPEN DRIP-PROOF  
 HORIZONTAL FOOT-MOUNTED  
 3 PHASE INDUCTION MOTOR  
 F1 ASSEMBLY

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**TYPICAL MOTOR PERFORMANCE DATA**

Model: F5006VLF4OM

| HP        | kW  | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| 500       | 373 | 6          | 1190   | 5810UZ | 575            | 60          | 3        | 524          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP       | 22  | F          | 1.15   | CONT   | 96.1           | -           |          | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 500.00 | 372.9 | 524     | 96.1           | 74.4             |
| ¾ Load       | 375.00 | 279.6 | 425     | 95.6           | 69.1             |
| ½ Load       | 250.00 | 186.4 | 340     | 94.3           | 58.3             |
| ¼ Load       | 125.00 | 93.2  | 280     | 90.0           | 37.1             |
| No Load      |        |       | 232.2   |                | 2.3              |
| Locked Rotor |        |       | 2953    |                | 29.0             |

| 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) |   |
| 2203                 | 195                     | 155                | 235                   | 298.56  |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |            | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|------------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE        |                               |
| 81                 | 41  | -                            | NU2232C3  | 6320C3 INS |                               |

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

**Motor Options:**  
Product Family:ODP  
Mounting:Footed,Shaft:UZ Shaft

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

Tag:

All characteristics are average expected values.

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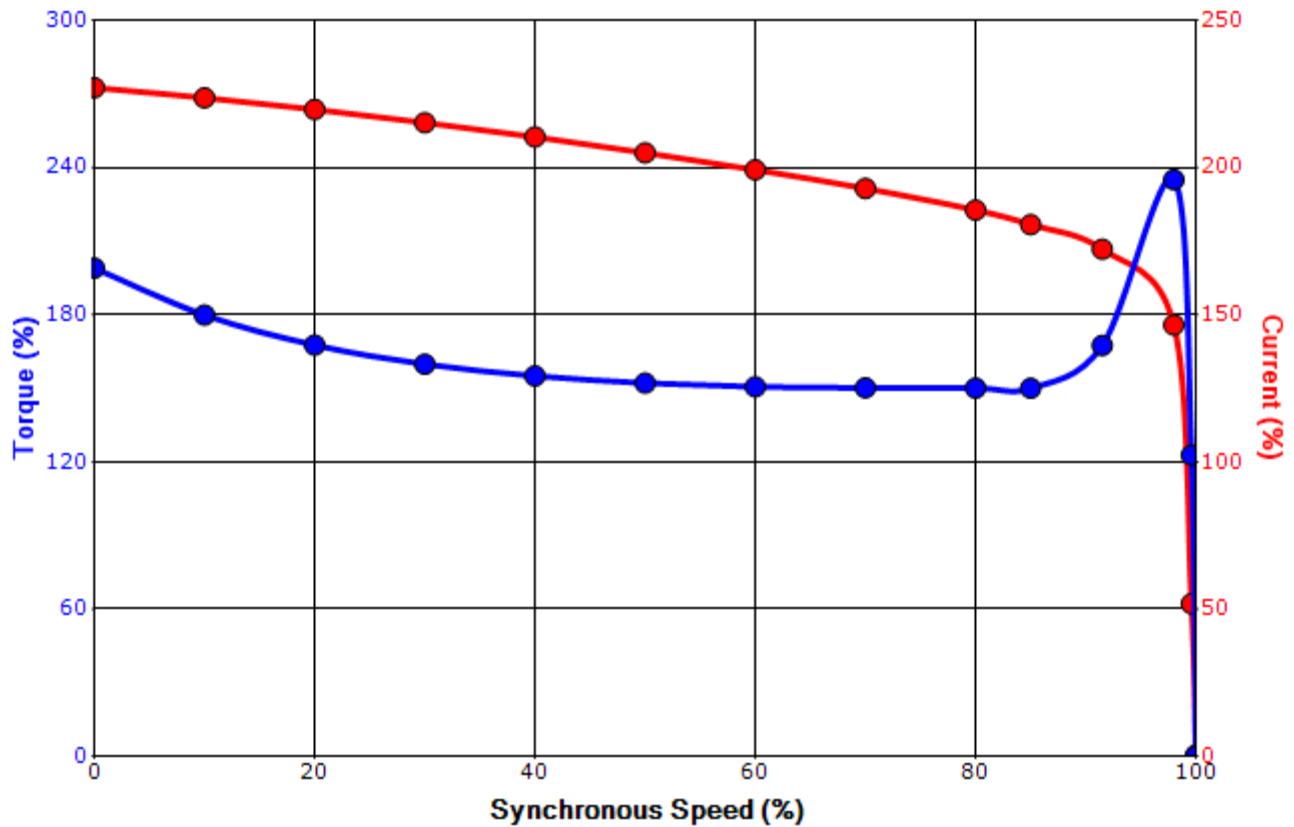
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bmmamen   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 5/13/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: F5006VLF4OM

|                   |   |                   |                  |        |                |             |                |              |
|-------------------|---|-------------------|------------------|--------|----------------|-------------|----------------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame  | Voltage        | Hz          | Phase          | FL Amps      |
| 500               | 373   | 6                 | 1190             | 5810UZ | 575            | 60          | 3              | 524          |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code       | Ambient (°C) |
| ODP               | 22  | F                 | 1.15             | CONT   | 96.1           | -           |                | 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 (%) |        |                |             |                |              |
| 2953              | 298.56  | 2203              | 195              |        | 155            | 235         |                |              |

**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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