

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   |
| 507UZ      | 24.9             | 24.9 | 50.4 | 12.50 | 1.4 | 5.6 | 4.8 | 19.3 | 25.6 | 24.9 | 4.4         | 4.00 | 23.8 | 18.7 | 15.7 | 8.7 | 15.7 | 11.5 |

| FRAME SIZE | MOUNTING |       |      |     | SHAFT EXTENSION |       |       |       | KEY SEAT |       |         | BEARINGS |           |  | MAXIMUM WEIGHT |
|------------|----------|-------|------|-----|-----------------|-------|-------|-------|----------|-------|---------|----------|-----------|--|----------------|
|            | E        | 2F    | H    | BA  | N-W             | V     | U     | R     | S        | ES    | LS      | OS       |           |  |                |
| 507UZ      | 10.00    | 22.00 | 0.94 | 8.5 | 11.62           | 11.38 | 3.875 | 3.309 | 1.000    | 10.00 | NU322C3 | 6320C3   | 2580 lbs. |  |                |

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:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  3. KEY DIMENSIONS EQUAL S x S x 10.00 FOR UZ (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

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

**XT SERIES**  
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**TYPICAL MOTOR PERFORMANCE DATA**

Model: B3006VLG3BMH

|           |     |            |        |       |                |             |          |              |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 300       | 224 | 6          | 1185   | 507US | 460            | 60          | 3        | 344.00       |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP       | 22  | F          | 1.15   | CONT  | 95.8           | B           | G        | 40 C         |

|              |        |       |         |                |                  |
|--------------|--------|-------|---------|----------------|------------------|
| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 300    | 223.7 | 344.0   | 95.9           | 84.8             |
| ¾ Load       | 225.00 | 167.8 | 270.9   | 96.3           | 82.0             |
| ½ Load       | 150.00 | 111.9 | 201.0   | 96.4           | 74.7             |
| ¼ Load       | 75.00  | 55.9  | 145.8   | 92.1           | 52.3             |
| No Load      |        |       | 110.0   |                | 2.3              |
| Locked Rotor |        |       | 2200    |                | 37.5             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| 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> ) |
| 1331              | 185                  | 170             | 285                | 133.19                        |

|                    |     |                           |           |        |                            |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE        | NDE    |                            |
| 18                 | 8   | -                         | 6320C3    | 6320C3 | 2474                       |

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

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

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

Tag:

All characteristics are average expected values.

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

|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 5/18/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

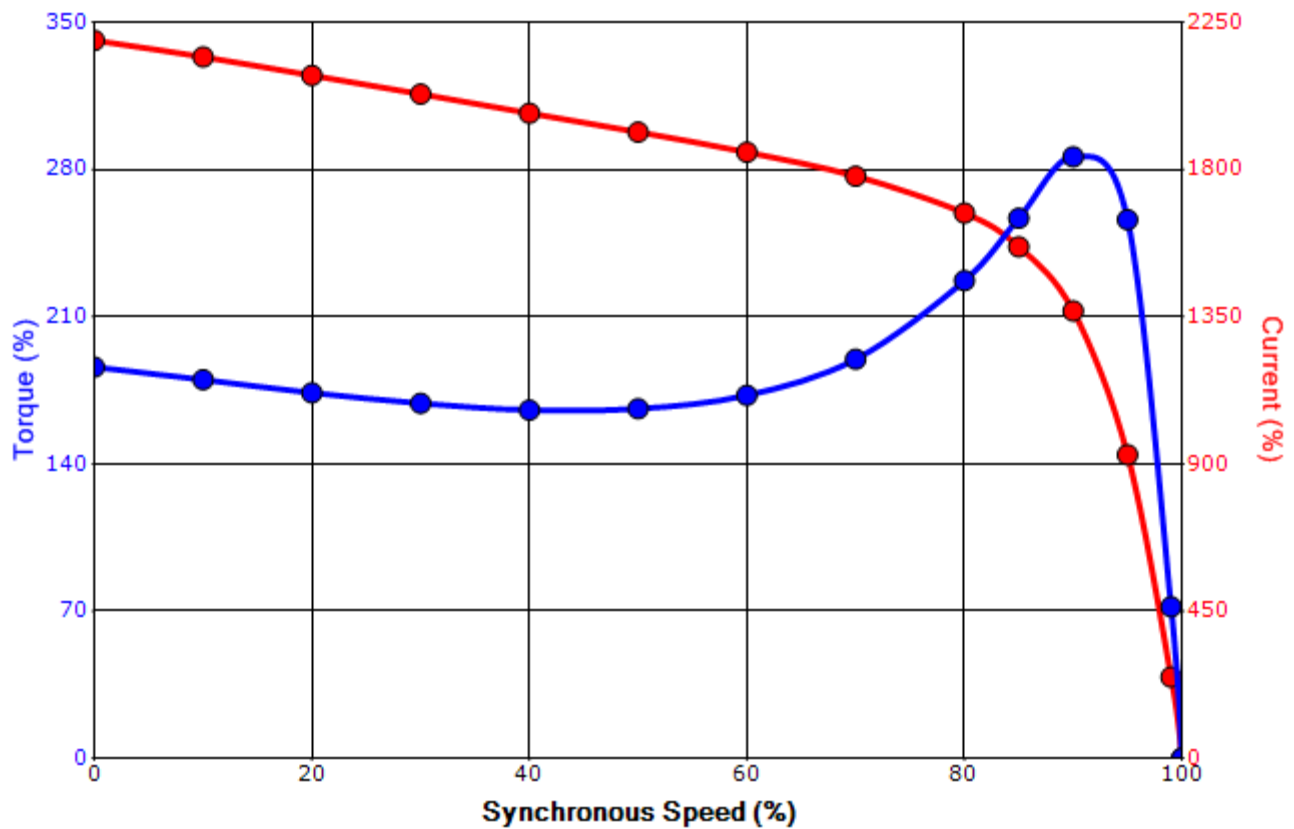
|             |            |            |  |
|-------------|------------|------------|--|
| Issued Date | 10/16/2018 | Transmit # |  |
| Issued By   | dschoeck   | Issued Rev |  |

**SPEED TORQUE/CURRENT CURVE**

Model: B3006VLG3BMH

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 300               | 224   | 6                 | 1185             | 507US       | 460            | 60          | 3        | 344.00         |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| ODP               | 22  | F                 | 1.15             | CONT        | 95.8           | B           | G        | 40 C           |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          | Break Down (%) |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                |             |          |                |
| 2200              | 133.19  | 1331              | 185              | 170         |                | 285         |          |                |

**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 | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 5/18/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**Motor Connection Diagrams**  
12 Leads

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting.  
Please Contact Toshiba International for specific connections.