

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |       |      |      |      |      |       |       |       |      | CONDUIT BOX     |        |                |      |      |     | MAXIMUM WEIGHT |     |
|------------|------------------|-------|------|------|------|------|-------|-------|-------|------|-----------------|--------|----------------|------|------|-----|----------------|-----|
|            | A                | B     | C    | D    | G    | J    | K     | M     | O     | P    | T               | AA     | AB             | AC   | AE   | AF  |                | XL  |
| 364TS      | 16.4             | 13.4  | 26.6 | 9.00 | 1.0  | 3.6  | 3.0   | 11.4  | 18.3  | 18.5 | 2.8             | 3.00   | 14.8           | 12.3 | 12.2 | 2.4 | 9.7            | 7.1 |
| 364T       | 16.4             | 13.4  | 28.7 | 9.00 | 1.0  | 3.6  | 3.0   | 11.4  | 18.3  | 18.5 | 2.8             | 3.00   | 14.8           | 12.3 | 12.2 | 2.4 | 9.7            | 7.1 |
| FRAME SIZE | MOUNTING         |       |      |      |      |      |       |       |       |      | SHAFT EXTENSION |        |                |      |      |     | BEARINGS       |     |
| 364TS      | E                | 2F    | H    | BA   | 3.75 | 3.50 | 1.875 | R     | S     | ES   | LS              | OS     | MAXIMUM WEIGHT |      |      |     |                |     |
| 364T       | 7.00             | 11.25 | 0.69 | 5.88 | 3.75 | 3.50 | 1.875 | 1.591 | 0.500 | 2.00 | 6313C3          | 6313C3 | 690 lbs.       |      |      |     |                |     |
|            | 7.00             | 11.25 | 0.69 | 5.88 | 5.88 | 5.62 | 2.375 | 2.021 | 0.625 | 4.25 | 6314C3          | 6313C3 | 690 lbs.       |      |      |     |                |     |

- 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 4.25 FOR T AND S x S x 2.00 FOR TS (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

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: \_\_\_\_\_

STANDARD (NO AUX. BOXES)

RTD AUX. BOX

SPACE HEATER AUX. BOX

BEARING RTD's

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

**TOSHIBA**

OPEN DRIP-PROOF  
HORIZONTAL FOOT-MOUNTED  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

TOSHIBA INTERNATIONAL CORPORATION

**XT SERIES**

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www.toshiba.com/ind

**TYPICAL MOTOR PERFORMANCE DATA**

Model: B0752VLG3USH

| HP        | kW | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 75        | 55 | 2          | 3556   | 364TS | 230/460        | 60          | 3        | 174/87       |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP       | 12 | F          | 1.15   | CONT  | 94.5           | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 75    | 55.9 | 87.0    | 94.4           | 85.5             |
| ¾ Load       | 56.25 | 41.9 | 69.4    | 94.6           | 84.0             |
| ½ Load       | 37.50 | 28.0 | 53.4    | 93.7           | 79.0             |
| ¼ Load       | 18.75 | 14.0 | 41.0    | 85.5           | 50.0             |
| No Load      |       |      | 26.0    |                | 6.6              |
| Locked Rotor |       |      | 542.00  |                | 30.8             |

| 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) |   |
| 111                  | 270                     | 270                | 420                   | 9.17  |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |        | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE    |                               |
| 32                 | 15  | -                            | 6313C3    | 6313C3 |                               |

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

**Motor Options:**  
Product Family:EQPIII ODP  
Mounting:Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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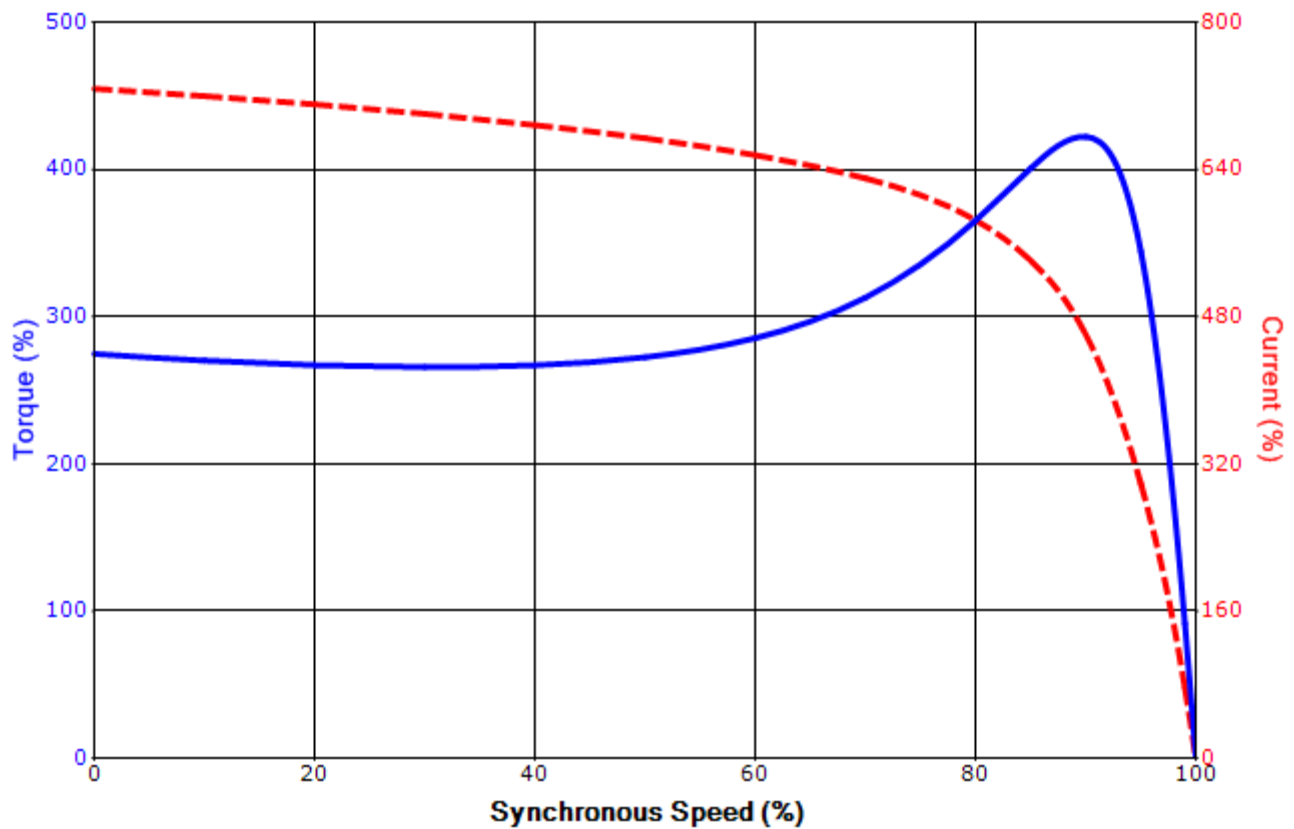
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 5/15/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: B0752VLG3USH

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 75                | 55  | 2                 | 3556             | 364TS       | 230/460        | 60          | 3        | 174/87         |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| ODP               | 12  | F                 | 1.15             | CONT        | 94.5           | 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 (%) |                |             |          |                |
| 542.00            | 9.17  | 111               | 270              | 270         |                |             | 420      |                |

**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  | 5/15/2012 | 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.