

- 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 ES (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |      |      |      |     | P-FLANGE DIMENSIONS |     |      |      |      |       |       | SHAFT EXTENSION DIMENSIONS |      |       |      |       |       |      |       |      |  |
|------------|------------------|------|------|------|-----|---------------------|-----|------|------|------|-------|-------|----------------------------|------|-------|------|-------|-------|------|-------|------|--|
|            | AG               | C    | P    | OX   | BU  | BB                  | BE  | BF   | BD   | BV   | AK    | AJ    | AH                         | EU   | U     | V    | R     | S     | ES   | EW    | EX   |  |
| 320HP12    | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 12.0 | 16.7 | 8.25  | 9.125 | 4.50                       | 1.25 | 1.625 | 4.50 | 1.416 | 0.375 | 3.03 | 0.375 | 0.75 |  |
| 320LP12    | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 12.0 | 16.7 | 8.25  | 9.125 | 4.50                       | 1.75 | 2.125 | 4.50 | 1.845 | 0.500 | 3.03 | 0.375 | 0.75 |  |
| 320HP16    | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 16.5 | 16.7 | 13.50 | 14.75 | 4.50                       | 1.25 | 1.625 | 4.50 | 1.416 | 0.375 | 3.03 | 0.375 | 0.75 |  |
| 320PH16    | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 16.5 | 16.7 | 13.50 | 14.75 | 4.50                       | 1.75 | 2.125 | 4.50 | 1.845 | 0.500 | 3.03 | 0.375 | 0.75 |  |
| 320LP16    | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 16.5 | 16.7 | 13.50 | 14.75 | 4.50                       | 1.75 | 2.125 | 4.50 | 1.845 | 0.500 | 3.03 | 0.375 | 0.75 |  |
| 320LPA12   | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 12.0 | 16.7 | 8.25  | 9.125 | 4.50                       | 1.25 | 1.625 | 4.50 | 1.416 | 0.375 | 3.03 | 0.375 | 0.75 |  |
| 320LPA16   | 39.7             | 44.2 | 16.3 | 19.0 | 45° | 0.25                | 1.1 | 0.69 | 16.5 | 16.7 | 13.50 | 14.75 | 4.50                       | 1.25 | 1.625 | 4.50 | 1.416 | 0.375 | 3.03 | 0.375 | 0.75 |  |

| CONDUIT BOX DIMENSIONS |      |      |     |     |     | MAXIMUM WEIGHT |
|------------------------|------|------|-----|-----|-----|----------------|
| AA(NPT)                | AB   | AC   | AF  | XL  | XN  |                |
| 2.00                   | 14.4 | 11.1 | 5.2 | 9.1 | 7.8 | 730 lbs.       |

| FRAME SIZE | BEARINGS |               |
|------------|----------|---------------|
|            | LS       | OS            |
| HP         | 6312C3   | 6311C3        |
| LP         | 6312C3   | 7311BEGAM x 2 |

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: VERTICAL SOLID SHAFT ROUND BODY P-FLANGE

COMMENTS: \_\_\_\_\_

TAG NO's: \_\_\_\_\_

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

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

**TOSHIBA**

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED  
VERTICAL SOLID SHAFT ROUND BODY P-FLANGE  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

**XT SERIES**

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[www.toshiba.com/ind](http://www.toshiba.com/ind)

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 0256FTVB3RX-A

| HP        | kW   | Pole       | FL RPM | Frame   | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|------|------------|--------|---------|----------------|-------------|----------|--------------|
| 25        | 18.5 | 6          | 1175   | 320LP16 | 460            | 60          | 3        | 62           |
| Enclosure | IP   | Ins. Class | S.F.   | Duty    | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54   | F          | 1.15   | CONT    | 93             | B           | G        | 40 C         |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 25    | 18.6 | 62.0    | 92.9           | 80.9             |
| ¾ Load       | 18.75 | 14.0 | 25.1    | 93.5           | 76.8             |
| ½ Load       | 12.50 | 9.3  | 19.8    | 93.0           | 67.7             |
| ¼ Load       | 6.25  | 4.7  | 13.7    | 86.2           | 49.3             |
| No Load      |       |      | 13.0    |                | 3.7              |
| Locked Rotor |       |      | 182.00  |                | 46.2             |

| 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) |   |
| 112                  | 245                     | 215                | 255                   | 9.34  |

| Safe Stall Time(s) |     | Sound Pressure<br>dB(A) @ 1M | Bearings* |       | Approx. Motor Weight<br>(lbs) |
|--------------------|-----|------------------------------|-----------|-------|-------------------------------|
| Cold               | Hot |                              | DE        | NDE   |                               |
| 36                 | 20  | -                            | 6312C3    | 7311B |                               |

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

**Motor Options:**  
Product Family:EQPIII Vertical Medium Thrust  
Mounting:16 P-Base (280-440 Frame),Shaft:LP Solid Shaft Medium Thrust

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

Tag:

All characteristics are average expected values.

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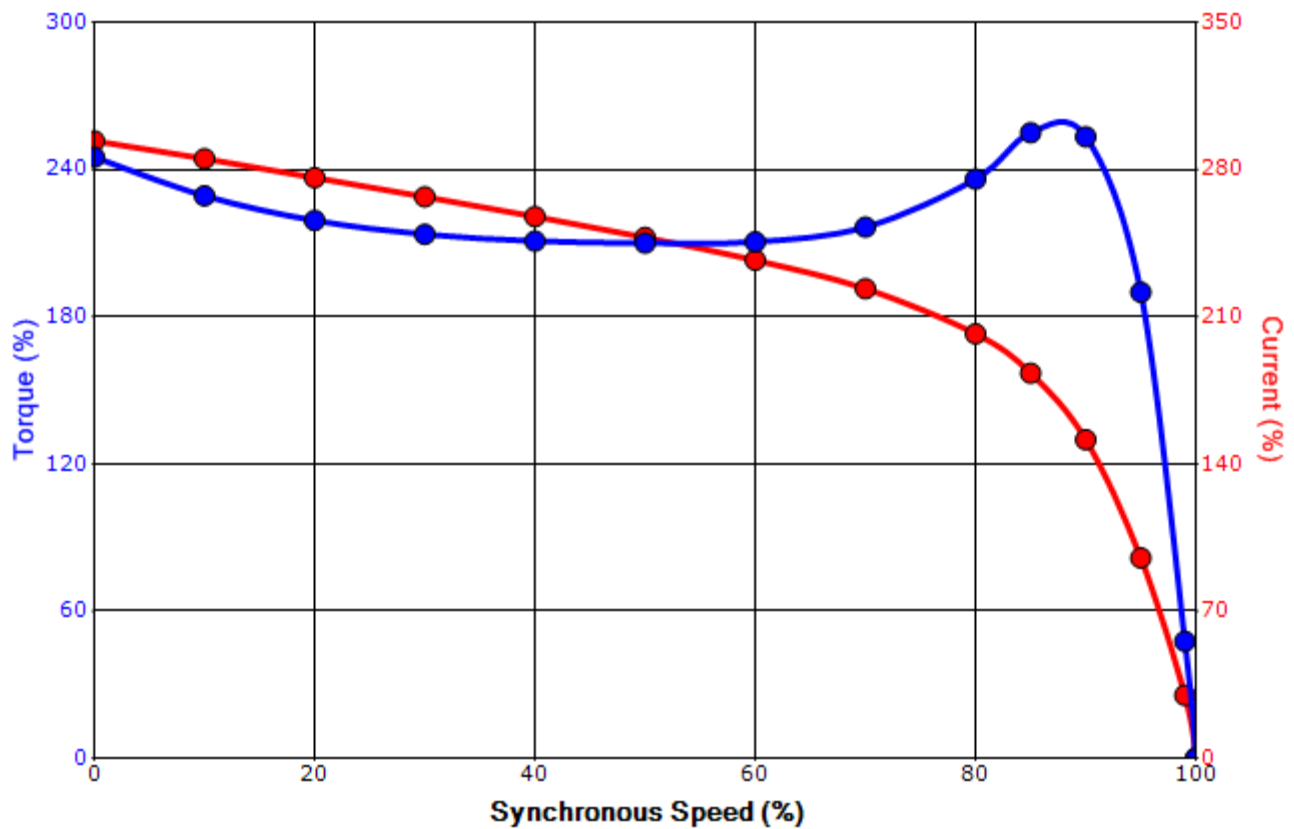
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/24/2013 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: 0256FTVB3RX-A

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 25                | 18.5  | 6                 | 1175             | 320LP16     | 460            | 60          | 3        | 62             |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 54  | F                 | 1.15             | CONT        | 93             | 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 (%) |                |             |          |                |
| 182.00            | 9.34  | 112               | 245              | 215         |                |             | 255      |                |

**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 | gminetos  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 7/24/2013 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

### Motor Connection Diagram 3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one  
of them will be labeled with the appropriate lead number.