

## UNITS: INCHES

| 445TZ   | 445T  | SIZE   | FRAME           | 445TZ  | 445T   | SIZE | FRAME            |
|---|---|--------|-----------------|--|--|------|------------------|
| 9.00  | 9.00  | Ε      |                 | 22.1   | 22.1   | >    |                  |
|   | 16.50   | 2      | M               | 19.3   | 19.3   | В    |                  |
| 16.50   | .50   | F      | MOUNTING        | 41.4   | 39.8   | င    |                  |
| 0.81  | 0.81  | н      | G               | 22.1   19.3   41.4   11.00   1.2   4.4   4.8         | 22.1   19.3   39.8   11.00   1.2   4.4   4.8 | D    |                  |
| 7.50  | 7.50  | BA     |                 | 1.2  | 1.2  | G    | MOTOR            |
| 10.125  | 8.50  | N-W    | SHAF            | 4.4  | 4.4  | ل    | MOTOR DIMENSIONS |
| 9.875   | 8.25  | ٧      | SHAFT EXTENSION | 4.8  | 4.8  | ~    | SNOIS            |
| 3.375   | 3.375   | U      | NSION           | 15.6   | 15.6   | ×    |                  |
| 2.880   | 2.880   | R      | Я               | 22.5   | 15.6   22.5   22.0                           | 0    |                  |
| 0.875   | 0.875   | S      | KEY SEAT        | 22.0   | 22.0   | ъ    |                  |
| 8.50  | 6.88  | ES     | T               | 3.6  | .0 3.6                                       | 1    |                  |
| NU318   | NU318   | LS     | 3               | 3.00   | 3.00   | A    |                  |
| 3C3   6   | 3C3 6   |        | <b>BEARINGS</b> | 21.6   | 21.6   | ΑB   |                  |
| 0.81   7.50  10.125  9.875   3.375   2.880   0.875   8.50   NU318C3   6318C3   1620 | 0.81   7.50   8.50   8.25   3.375   2.880   0.875   6.88   NU318C3   6318C3 | os     | S               | 15.6   22.5   22.0   3.6   3.00   21.6   16.5   14.2 | 3.00   21.6   16.5   14.2                    | ĄĊ   | CON              |
| 1620  | 1620  | WEI    | MAX             | 14.2   | 14.2   | Æ    | CONDUIT E        |
| lbs.  | lbs.  | WEIGHT | MCM             | 8.7  | 8.7  | ĄF   | ХОХ              |
|   |   |        |                 | 15.7   | 15.7   | ř    |                  |
|   |   |        |                 | 11.5   | 11.5   | ž    |                  |

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- NOTES:

  1. DIMENSION V REPRESENTS LENGTH
  OF STRAIGHT PART OF SHAFT
  2. MAIN CONDUIT BOX MAY BE ROTATED
- IN 90' INCREMENTS
  KEY DIMENSIONS EQUAL S × S × 6.88
  FOR T AND S × S × 8.50 FOR TZ
- (MOTOR SUPPLIED WITH KEY)
  MOTOR WEIGHT SHOWN IS MAXIMUM
  HORSEPOWER IN FRAME
  OPPOSITE ROTATION AVAILABLE ONLY BY
- CONNECTION CHANGE

|   | TOSHIRARI   |         |  |         |       | COMMENTS: | FRAME SIZE:   | P.O. NO.:    | CUSTOMER:        |
|---|---|---------|--|---------|-------|-----------|---|--------------|------------------|
|   | FSFRVFS   |         |  |         |       |           |   |              |                  |
| : | THF   |         |  |         |       |           |   |              |                  |
|   | Z<br>G<br>H<br>H  |         |  |         |       |           | PRODI   |              |                  |
|   |   |         |  |         |       |           | JCT TYF   |              | MOTOR MODEL NO.: |
| 1 | Δ<br>Σ<br>Γ   |         |  |         |       |           | Ĕ. 100  | _ VOLTAGE: . | MODEL            |
|   | HANGES  | PER:    |  |         |       |           | P EQP III, E  | <br>         | No.:             |
| 2 | O<br>F  |         |  |         |       |           | PACT,   | <br> <br>    |                  |
|   | TECHNICAL   |         |  |         |       |           | PRODUCT TYPE: ODP EQP III, EPACT, & HIGH EFFICIENCY | RPM(SYN.):   |                  |
|   | TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE | _ DATE: |  |         |       |           | ENCY  | Hz:          |                  |
|   | T AND   | ı       |  | ļ       |       |           | I   |              |                  |
|   | THF   |         |  |         |       |           |   |              |                  |
|   |   |         |  |         |       |           |   |              |                  |
|   | ΔΥ  |         |  |         |       |           |   |              |                  |
|   | CHANGE  |         |  |         |       |           |   |              |                  |
|   | DATA MAY CHANGE WITHOUT NOTICE  |         |  |         |       |           |   | ×            |                  |
| 0 | NOTICE  |         |  | BEARING | OFACE | 2         | RTD AU  | × STANDA     |                  |

TAG NO's.:

RTD AUX. BOX STANDARD (NO AUX. BOXES)

SPACE HEATER AUX. BOX

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**PRELIMINARY** 

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

TOSHIBA INTERNATIONAL CORPORATION

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

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| <b>Issued Date</b> 1/7/2021 |          | Transmit # |  |
|-----------------------------|----------|------------|--|
| Issued By                   | dschoeck | Issued Rev |  |

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: B1256VLF4USH

| HP        | kW | Pole       | FL RPM | Frame | Voltage           | Hz             | Phase    | FL Amps         |
|-----------|----|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 125       | 90 | 6          | 1190   | 445T  | 230/460           | 60             | 3        | 306.00/153.00   |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA<br>Nom. Eff. | NEMA<br>Design | kVA Code | Ambient<br>(°C) |
| ODP       | 12 | F          | 1.15   | CONT  | 95.4              | В              | G        | 40 C            |

| Load         | HP    | kW   | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load    | 125   | 93.2 | 153.0   | 95.3           | 80.3             |
| ¾ Load       | 93.75 | 69.9 | 120.0   | 95.5           | 77.1             |
| ½ Load       | 62.50 | 46.6 | 90.6    | 95.3           | 68.9             |
| ¼ Load       | 31.25 | 23.3 | 67.8    | 89.4           | 48.3             |
| No Load      |       |      | 53.0    |                |                  |
| Locked Rotor |       |      | 890     |                | 30.7             |

| Torque    |   |         |         |          |  |  |
|-----------|---|---------|---------|----------|--|--|
| Full Load | Full Load Locked Rotor Pull Up Break Down |         |         |          |  |  |
| (lb-ft)   | (% FLT)                                   | (% FLT) | (% FLT) | (lb-ft²) |  |  |
| 552       | 190                                       | 155     | 250     | 69.68    |  |  |

| Safe Stall Time(s) |                             | Sound | Bearings* |        | Approx. Motor Weight |  |
|--------------------|-----------------------------|-------|-----------|--------|----------------------|--|
| Cold               | Cold Hot Pressure dB(A) @ 1 |       | DE        |        |                      |  |
| 32                 | 15                          | -     | NU318C3   | 6318C3 | 1507                 |  |

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

Motor Options: Product Family:ODP Mounting:Footed,Shaft:T 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 / 1 |  |  |  |
| Engr. Date  | 5/18/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019     |  |  |  |



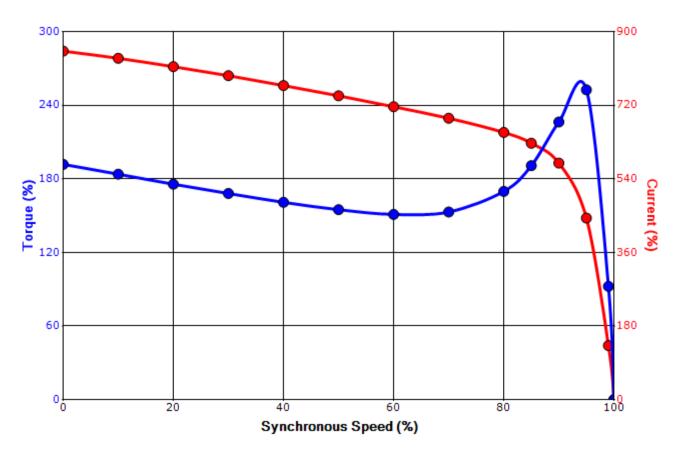
| Issued Date | 1/7/2021 | Transmit # |  |
|-------------|----------|------------|--|
| Issued By   | dschoeck | Issued Rev |  |

#### SPEED TORQUE/CURRENT CURVE

Model: B1256VLF4USH

| HP                   | kW                    | Pole       | FL RPM | Frame      | Voltage           | Hz             | Phase      | FL Amps         |    |
|----------------------|-----------------------|------------|--------|------------|-------------------|----------------|------------|-----------------|----|
| 125                  | 90                    | 6          | 1190   | 445T       | 230/460           | 60             | 3          | 306.00/153.00   |    |
| Enclosure            | IP                    | Ins. Class | S.F.   | Duty       | NEMA<br>Nom. Eff. | NEMA<br>Design | kVA Code   | Ambient<br>(°C) |    |
| ODP                  | 12                    | F          | 1.15   | CONT       | 95.4              | В              | G          | 40 C            |    |
| Looked Dates         | Rotor wk <sup>2</sup> | Torque     |        |            |                   |                |            |                 |    |
| Locked Rotor<br>Amps | Inertia               | Full Load  | Locked | l Rotor    | Pull U            | р              | Break      | Down            |    |
| Allips               | (lb-ft²)              | (lb-ft)    | (%     | <b>6</b> ) | (%)               |                | (9         | %)              |    |
| 890                  | 69.68                 | 552        | 190    |            | 155               |                | 90 155 250 |                 | 50 |

#### Design Values





| Customer    | wk² Load Inertia (Ib- | (t²) -        |
|-------------|-----------------------|---------------|
| Customer PO | Load Ty               | pe -          |
| Sales Order | Voltage               | <b>%)</b> 100 |
| Project #   | Accel. Ti             | ne -          |

Tag:

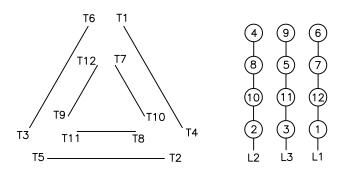
All characteristics are average expected values.

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|---|-----------|------------------|-------------|-------------|-------------|--|--|
| Engineering   | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121/1 |  |  |
| Engr. Date  | 5/18/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019   |  |  |

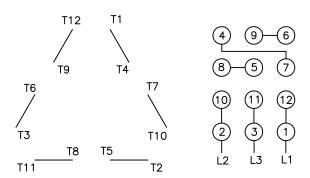
### Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

#### 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.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 1



| Issued Date | 1/7/2021 | Transmit # |  |
|-------------|----------|------------|--|
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#### **SPARE PARTS LIST\***

Model: B1256VLF4USH

| HP        | kW | Pole       | FL RPM | Frame | Voltage           | Hz             | Phase    | FL Amps         |
|-----------|----|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 125       | 90 | 6          | 1190   | 445T  | 230/460           | 60             | 3        | 306.00/153.00   |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | NEMA<br>Nom. Eff. | NEMA<br>Design | kVA Code | Ambient<br>(°C) |
| ODP       | 12 | F          | 1.15   | CONT  | 95.4              | В              | G        | 40 C            |

 Bearings DE
 NU318C3 / 90RU03M3OX

 Bearings NDE
 6318C3 / 90BC03J3OX

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

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

| 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-1125 / 1 |  |  |  |
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