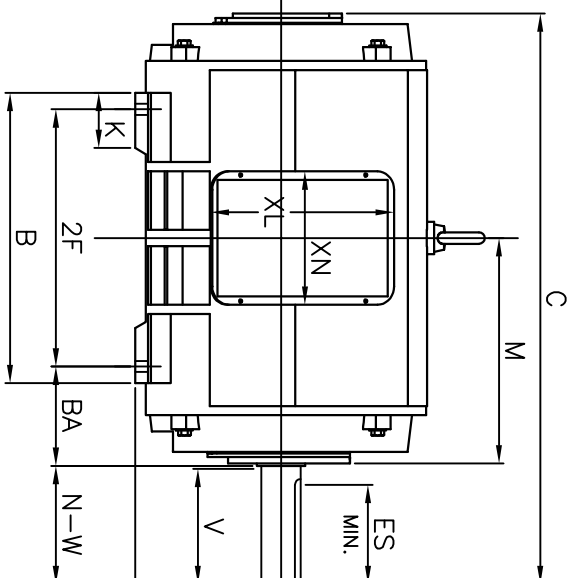
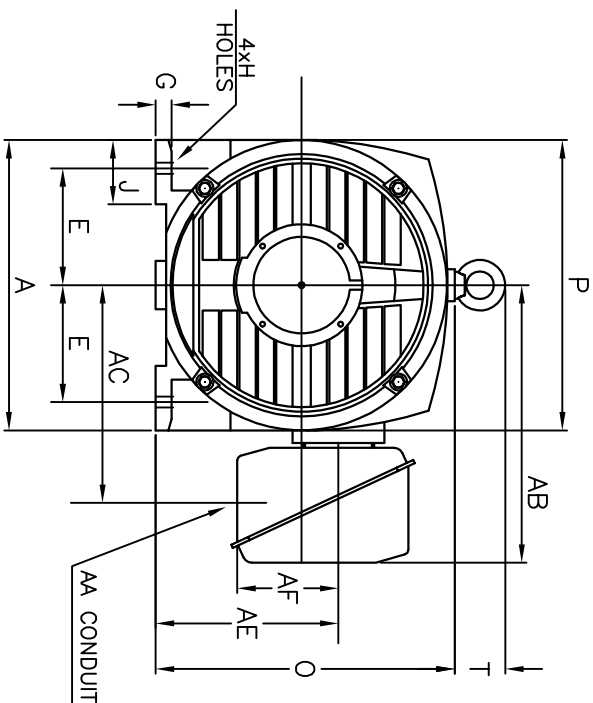
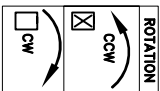


UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |       |      |       |                 |      |       |       |          |      |        | CONDUIT BOX |           |      |                |     |      |      |
|------------|------------------|-------|------|-------|-----------------|------|-------|-------|----------|------|--------|-------------|-----------|------|----------------|-----|------|------|
|            | A                | B     | C    | D     | G               | J    | K     | M     | O        | P    | T      | AA          | AB        | AC   | AE             | AF  | XL   | XN   |
| 507USS     | 24.9             | 24.9  | 43.6 | 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 |
| 507US      | 24.9             | 24.9  | 48.9 | 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          |           |      |                |     |      |      |
| 507USS     | 10.00            | 22.00 | 0.94 | 8.5   | 4.75            | 4.50 | 2.375 | 2.021 | 0.625    | 3.00 | 6313C3 | 6313C3      | 2900 lbs. |      |                |     |      |      |
| 507US      | 10.00            | 22.00 | 0.94 | 8.5   | 10.13           | 9.88 | 3.375 | 2.880 | 0.875    | 8.50 | 6320C3 | 6320C3      | 2900 lbs. |      |                |     |      |      |

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

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

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

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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  
TOSHIBA INTERNATIONAL CORPORATION F1 ASSEMBLY

☒ 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 8.50 FOR US AND S x S x 3.00 FOR USS (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

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

Model: F6002VLG3BMH

| HP        | kW  | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| 600       | 447 | 2          | 3565   | 507USS | 460            | 60          | 3        | 642          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP       | 22  | F          | 1.15   | CONT   | 95.4           | -           |          | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 600.00 | 447.4 | 641     | 95.6           | 91.6             |
| ¾ Load       | 450.00 | 335.6 | 485     | 95.4           | 91.0             |
| ½ Load       | 300.00 | 223.7 | 335     | 94.5           | 88.5             |
| ¼ Load       | 150.00 | 111.9 | 199     | 91.3           | 77.2             |
| No Load      |        |       | 111.7   |                |                  |
| Locked Rotor |        |       | 4381    |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 884               | 185                  | 165             | 340                | 91.81                      |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 32                 | 15  | -                         | 6313C3    | 6313C3 | 2804                       |

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

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

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

Tag:

All characteristics are average expected values.

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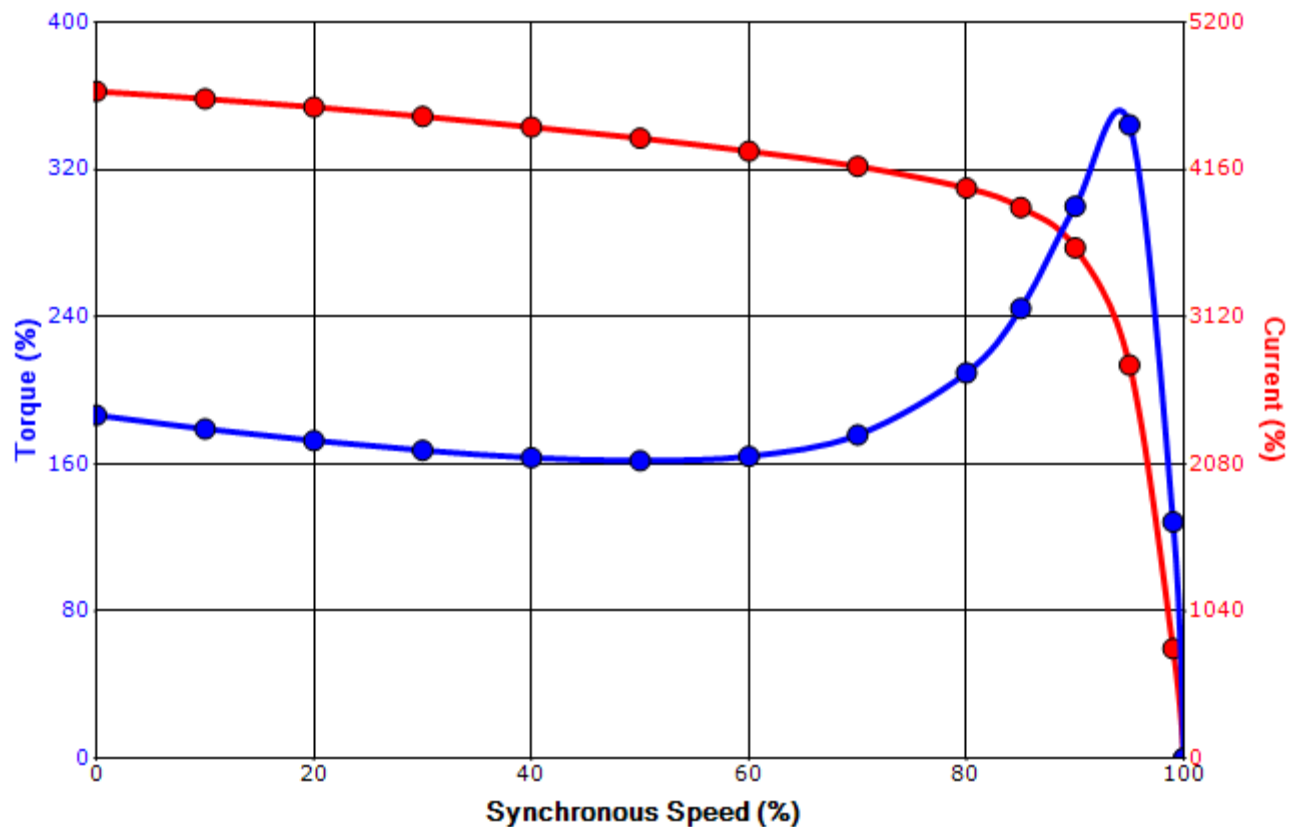
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|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrretaz | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 3/23/2023   | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: F6002VLG3BMH

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 600               | 447                                                 | 2                 | 3565             | 507USS      | 460            | 60             | 3        | 642          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| ODP               | 22                                                  | F                 | 1.15             | CONT        | 95.4           | -              |          | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |                |          |              |
|                   |                                                     | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                | Break Down (%) |          |              |
| 4381              | 91.81                                               | 884               | 185              | 165         |                | 340            |          |              |

### 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:

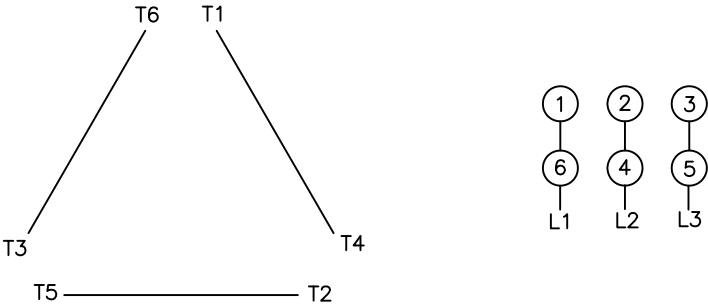
All characteristics are average expected values.

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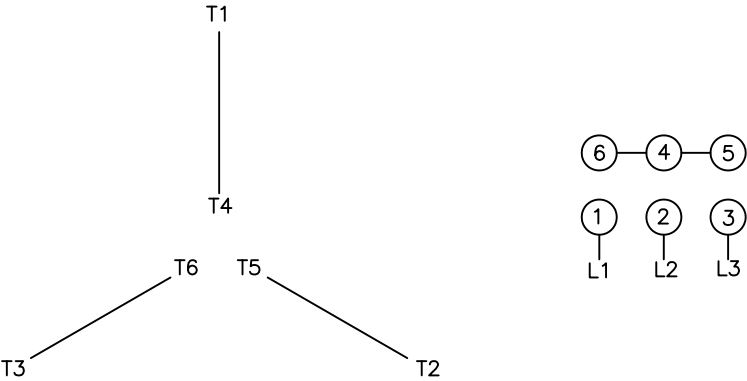
|             |             |                  |             |             |               |
|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrettaz | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 3/23/2023   | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**Motor Connection Diagrams**  
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation