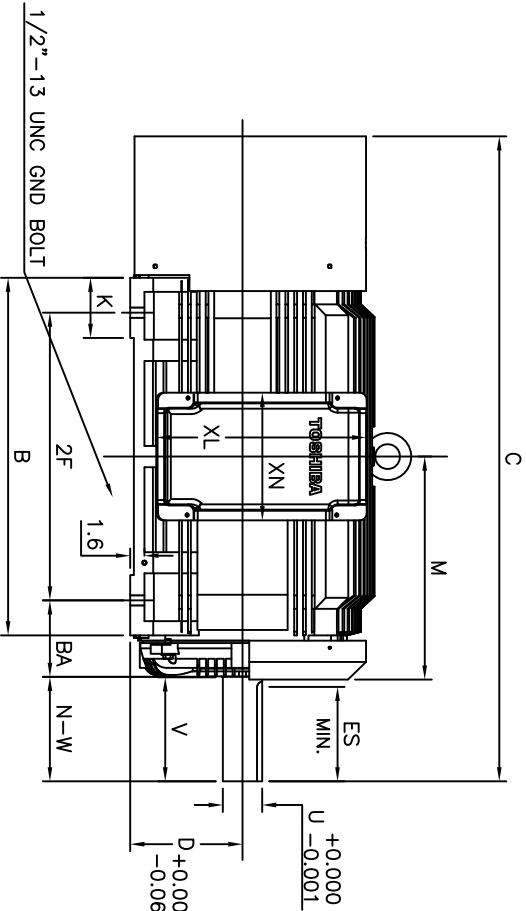
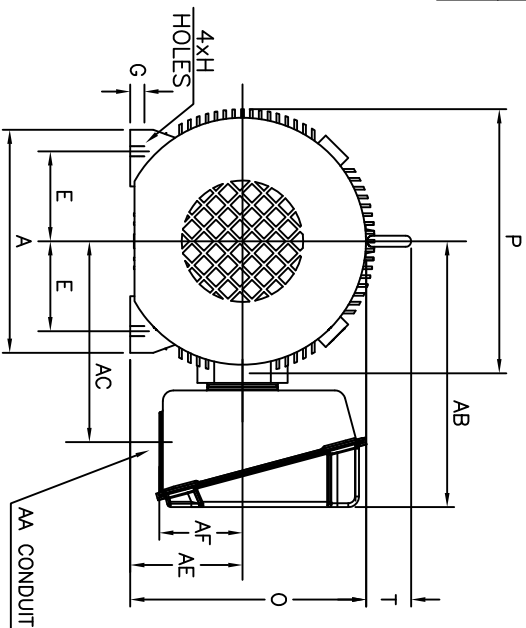
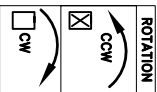


UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |       |      |       |                 |       |       |       |          |       |         | CONDUIT BOX |           |                |      |     |      |      |
|------------|------------------|-------|------|-------|-----------------|-------|-------|-------|----------|-------|---------|-------------|-----------|----------------|------|-----|------|------|
|            | A                | B     | C    | D     | G               | J     | K     | M     | O        | P     | T       | AA[NPT]     | AB        | AC             | AE   | AF  | XL   | XN   |
| 5010US     | 24.8             | 39.8  | 66.3 | 12.50 | 2.6             | 6.3   | 6.7   | 24.8  | 26.2     | 29.5  | 5.1     | 4.00        | 29.6      | 22.4           | 12.5 | 9.3 | 23.4 | 14.2 |
| 5010UZ     | 24.8             | 39.8  | 71.7 | 12.50 | 2.6             | 6.3   | 6.7   | 24.8  | 26.2     | 29.5  | 5.1     | 4.00        | 29.6      | 22.4           | 12.5 | 9.3 | 23.4 | 14.2 |
| FRAME SIZE | MOUNTING         |       |      |       | SHAFT EXTENSION |       |       |       | KEY SEAT |       |         | BEARINGS    |           | MAXIMUM WEIGHT |      |     |      |      |
|            | E                | 2F    | H    | BA    | N-W             | V     | U     | R     | S        | ES    | LS      | OS          |           |                |      |     |      |      |
| 5010US     | 10.00            | 32.00 | 1.2  | 8.50  | 6.25            | 6.19  | 3.625 | 3.134 | 0.875    | 5.00  | 6320C3  | 6320C3      |           |                |      |     |      |      |
| 5010UZ     | 10.00            | 32.00 | 1.2  | 8.50  | 11.62           | 11.38 | 4.375 | 3.817 | 1.000    | 10.00 | NU324C3 | 6320C3      | 4650 lbs. |                |      |     |      |      |

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

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

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: IIEFC EGP III & HIGH EFFICIENCY

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

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

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE ☒ PRELIMINARY

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**TOSHIBA** TOTALLY-ENCLOSED FAN-COOLED  
HORIZONTAL FOOT-MOUNTED  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

**XT SERIES**  
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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
  3. KEY DIMENSIONS EQUAL S x S x 10.00 FOR UZ AND S x S x 5.00 FOR US (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

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

## TYPICAL MOTOR PERFORMANCE DATA

Model: F4006FLG3OMH

| HP        | kW  | Pole       | FL RPM | Frame  | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| 400       | 298 | 6          | 1185   | 5010US | 575            | 60          | 3        | 386          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty   | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54  | F          | 1.15   | CONT   | 95.4           | -           | G        | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 400    | 298.3 | 386.0   | 95.5           | 80.9             |
| ¾ Load       | 300.00 | 223.7 | 303.6   | 94.6           | 77.4             |
| ½ Load       | 200.00 | 149.1 | 231.6   | 92.6           | 69.1             |
| ¼ Load       | 100.00 | 74.6  | 175.2   | 86.9           | 49.2             |
| No Load      |        |       | 146.0   |                |                  |
| Locked Rotor |        |       | 2505.00 |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 1773              | 170                  | 155             | 280                | 239.95                     |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 34                 | 12  | -                         | 6320C3    | 6320C3 |                            |

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

### Motor Options:

Product Family:EQPIII

Mounting:Footed,Shaft:US Shaft

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

Tag:

All characteristics are average expected values.

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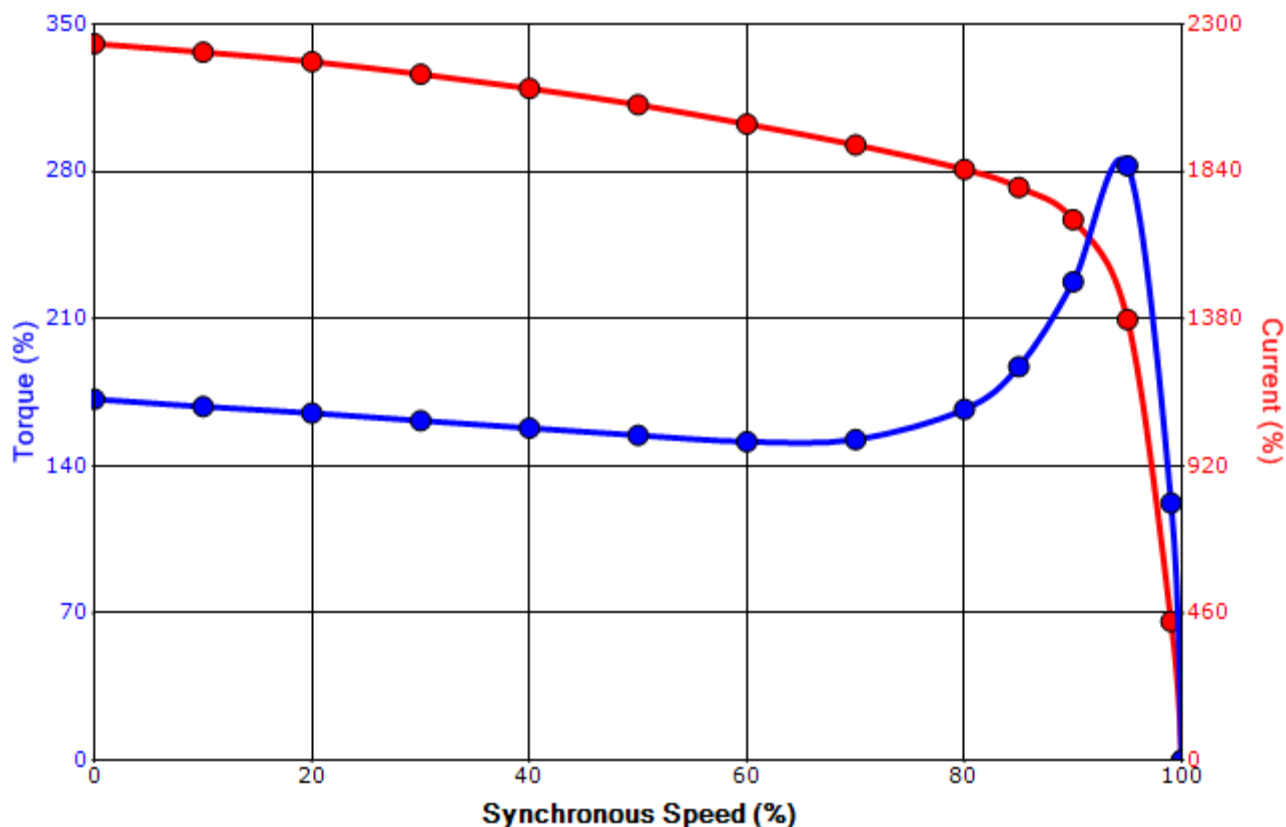
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|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 4/30/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: F4006FLG30MH

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 400               | 298                                                 | 6                 | 1185             | 5010US      | 575            | 60             | 3        | 386          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 54                                                  | F                 | 1.15             | CONT        | 95.4           | -              | G        | 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 (%) |          |              |
| 2505.00           | 239.95                                              | 1773              | 170              | 155         |                | 280            |          |              |

### 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.

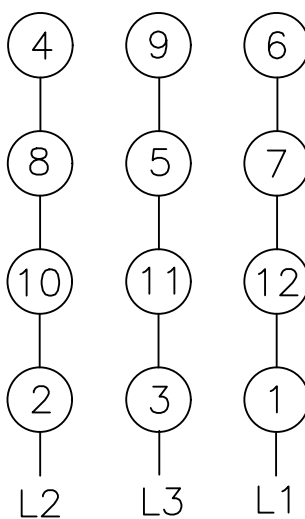
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|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta   | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 4/30/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

# Motor Connection Diagram

## 12 Leads

## Single Voltage



Switch L1 and L2 to reverse rotation