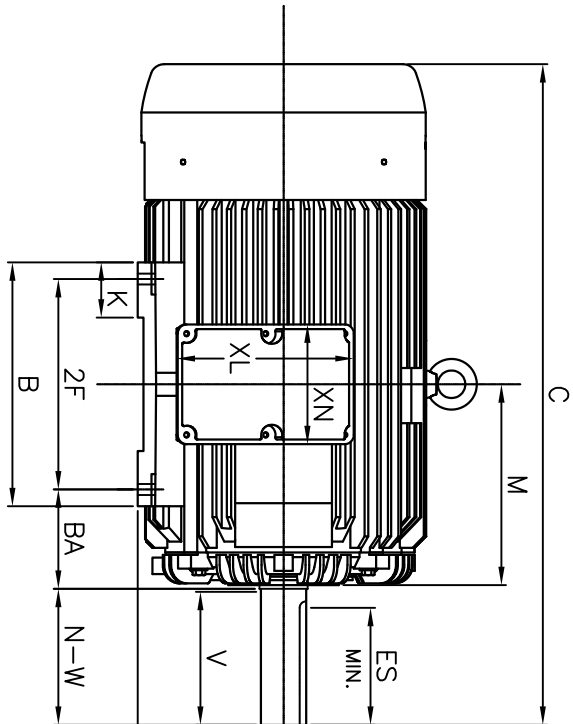
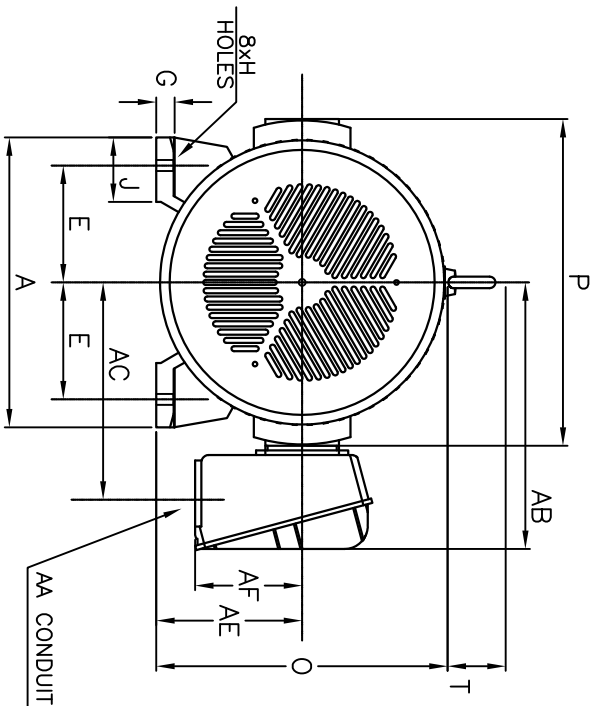
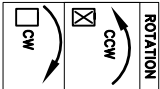


UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS |       |      |       |       |       |       |       |       |       | CONDUIT BOX |        |                |      |      |     |
|------------|------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------------|--------|----------------|------|------|-----|
|            | A                | B     | C    | D     | E     | F     | G     | H     | I     | J     | K           | L      | M              | N    | O    | P   |
| 505US      | 24.9             | 20.9  | 49.7 | 12.50 | 1.5   | 5.6   | 4.8   | 17.3  | 24.7  | 28.0  | 5.2         | 4.00   | 24.3           | 19.1 | 12.5 | 8.7 |
| 505UZ      | 24.9             | 20.9  | 56.5 | 12.50 | 1.5   | 5.6   | 4.8   | 17.3  | 24.7  | 28.0  | 5.2         | 4.00   | 24.3           | 19.1 | 12.5 | 8.7 |
| FRAME SIZE | MOUNTING         |       |      |       |       |       |       |       |       |       | KEY SEAT    |        |                |      |      |     |
| 505US      | MOUNTING         |       |      |       |       |       |       |       |       |       | KEY SEAT    |        |                |      |      |     |
|            | E                | 2F    | H    | BA    | N-W   | V     | U     | R     | S     | ES    | LS          | OS     | MAXIMUM WEIGHT |      |      |     |
| 505US      | 10.00            | 18.00 | 0.94 | 8.5   | 4.75  | 4.50  | 2.875 | 2.450 | 0.750 | 3.00  | 6318C3      | 6318C3 | 4089 lbs.      |      |      |     |
| 505UZ      | 10.00            | 18.00 | 0.94 | 8.5   | 11.62 | 11.38 | 3.875 | 3.309 | 1.000 | 10.00 | NU322C3     | 6318C3 | 4089 lbs.      |      |      |     |

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

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ Hz: \_\_\_\_\_  
FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: IEFC EGP III, EPACK, & 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

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
  - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  - KEY DIMENSIONS EQUAL S x S x 10.00 FOR UZ AND S x S x 3.00 FOR US (MOTOR SUPPLIED WITH KEY)
  - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  - STANDARD PRODUCTS 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

TOSHIBA

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

XT SERIES

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## TYPICAL MOTOR PERFORMANCE DATA

Model: B2504FLF4OMH

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 250       | 186 | 4          | 1785   | 505UZ | 575            | 60          | 3        | 230          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54  | F          | 1.15   | CONT  | 95.8           | B           | G        | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 250    | 186.4 | 230.0   | 95.9           | 85.1             |
| ¾ Load       | 187.50 | 139.8 | 177.6   | 95.0           | 82.3             |
| ½ Load       | 125.00 | 93.2  | 132.0   | 93.2           | 75.3             |
| ¼ Load       | 62.50  | 46.6  | 94.9    | 87.4           | 56.5             |
| No Load      |        |       | 71.0    |                |                  |
| Locked Rotor |        |       | 1440.00 |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 736               | 230                  | 130             | 240                | 110.37                     |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 17.4               | 7.1 | -                         | NU322C3   | 6318C3 |                            |

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

**Motor Options:**  
Product Family:EQPIII  
Mounting:Footed,Shaft:UZ Shaft

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

Tag:

All characteristics are average expected values.

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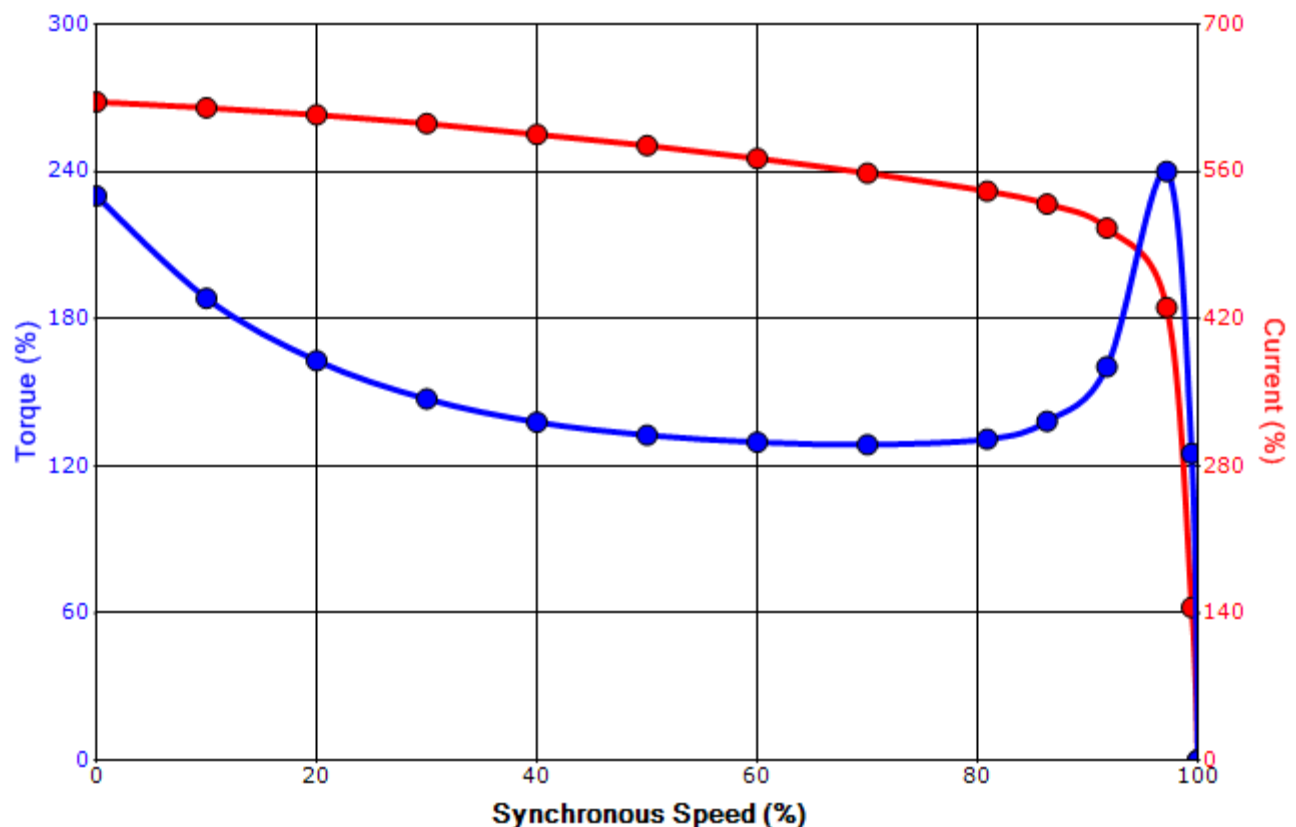
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | amills    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 2/21/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: B2504FLF4OMH

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 250               | 186                                                 | 4                 | 1785             | 505UZ       | 575            | 60             | 3        | 230          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 54                                                  | F                 | 1.15             | CONT        | 95.8           | B              | 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 (%) |          |              |
| 1440.00           | 110.37                                              | 736               | 230              | 130         |                | 240            |          |              |

### 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 | amills    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 2/21/2012 | 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