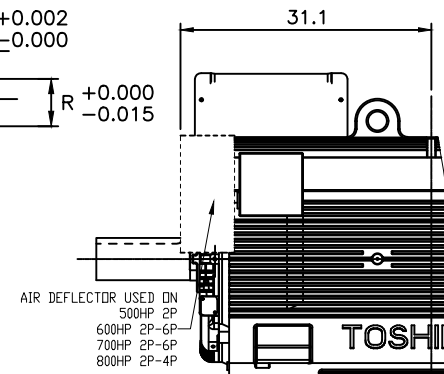
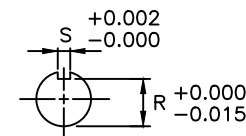
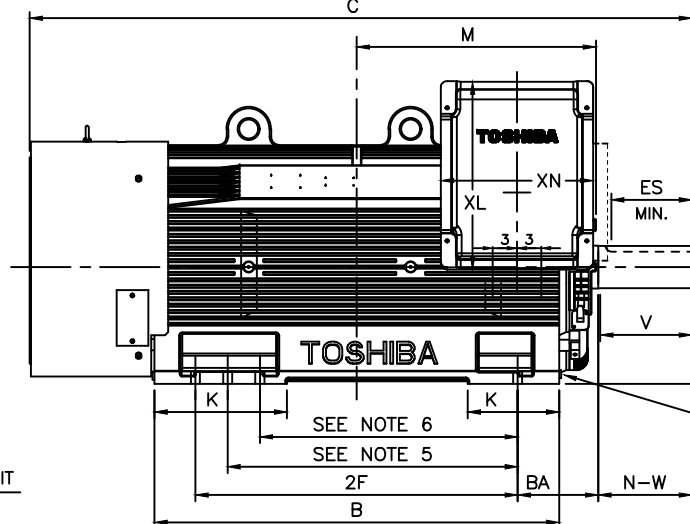
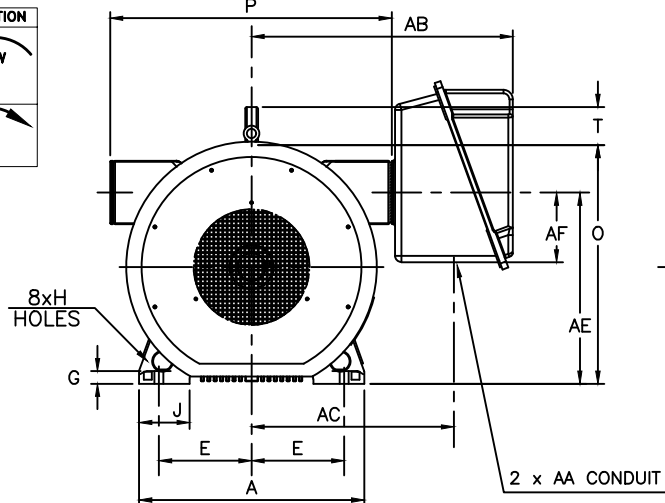
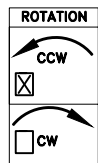


UNITS: INCHES

| FRAME SIZE    | MOTOR DIMENSIONS |      |      |       |     |     |           |      |      |      |     | CONDUIT BOX |      |      |      |     |      |      |
|---------------|------------------|------|------|-------|-----|-----|-----------|------|------|------|-----|-------------|------|------|------|-----|------|------|
|               | A                | B    | C    | D     | G   | J   | K         | M    | O    | P    | T   | AA          | AB   | AC   | AE   | AF  | XL   | XN   |
| 5809/10/11USS | 28.0             | 50.3 | 76.3 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00        | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |
| 5809/10/11US  | 28.0             | 50.3 | 76.8 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00        | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |
| 5809/10/11UZ  | 28.0             | 50.3 | 82.2 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00        | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |

| FRAME<br>SIZE | MOUNTING |                   |       |       | SHAFT EXTENSION |       |       | KEY SEAT |       |       | BEARINGS |        | MAXIMUM<br>WEIGHT |
|---------------|----------|-------------------|-------|-------|-----------------|-------|-------|----------|-------|-------|----------|--------|-------------------|
|               | E        | 2F                | H     | BA    | N-W             | V     | U     | R        | S     | ES    | LS       | OS     |                   |
| 5809/10/11USS | 11.50    | 32.00/36.00/40.00 | 1.125 | 10.00 | 5.74            | 5.65  | 2.625 | 2.275    | 0.625 | 3.03  | 6315C3   | 6315C3 | 7000 lbs          |
| 5809/10/11US  | 11.50    | 32.00/36.00/40.00 | 1.125 | 10.00 | 6.25            | 6.19  | 4.000 | 3.436    | 1.000 | 5.03  | 6322C3   | 6322C3 |                   |
| 5809/10/11UZ  | 11.50    | 32.00/36.00/40.00 | 1.125 | 10.00 | 11.62           | 11.38 | 5.250 | 4.550    | 1.250 | 10.03 | NU328C3  | 6322C3 |                   |

- 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, S x S x 5.00 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. THIS DIMENSION EQUALS 2F FOR 5810USS/US/UZ MOUNTING
  6. THIS DIMENSION EQUALS 2F FOR 5809USS/US/UZ MOUNTING
  7. STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
  8. STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

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

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

FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: TEFC EQP III, EPACT, & HIGH EFFICIENCY

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

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

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

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

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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  
HORIZONTAL FOOT-MOUNTED  
3 PHASE INDUCTION MOTOR  
F1 ASSEMBLY

## XT SERIES

VISIT OUR WEBSITE AT:  
[www.toshiba.com/ind](http://www.toshiba.com/ind)

## TYPICAL MOTOR PERFORMANCE DATA

Model: 7003FTAB11F-A

| HP        | kW  | Pole       | FL RPM | Frame   | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|---------|----------------|-------------|----------|--------------|
| 700       | 522 | 2          | 3580   | 5811USS | 460            | 60          | 3        | 800          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty    | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 54  | F          | 1.15   | CONT    | 95.4           | -           |          | 40 C         |

| Load         | HP     | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load    | 700.00 | 522.0 | 800     | 95.5           | 85.7             |
| ¾ Load       | 525.00 | 391.5 | 612     | 94.8           | 84.6             |
| ½ Load       | 350.00 | 261.0 | 435     | 93.2           | 80.7             |
| ¼ Load       | 175.00 | 130.5 | 279     | 88.3           | 66.5             |
| No Load      |        |       | 176.3   |                | 6.4              |
| Locked Rotor |        |       | 5139    |                | 20.1             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 1027              | 140                  | 105             | 260                | 203.21                     |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 13                 | 5   | -                         | 6315C3    | 6315C3 | 6669                       |

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

### Motor Options:

Product Family:EQP Global SD  
Mounting:Footed,Shaft:USS Shaft

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

Tag:

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

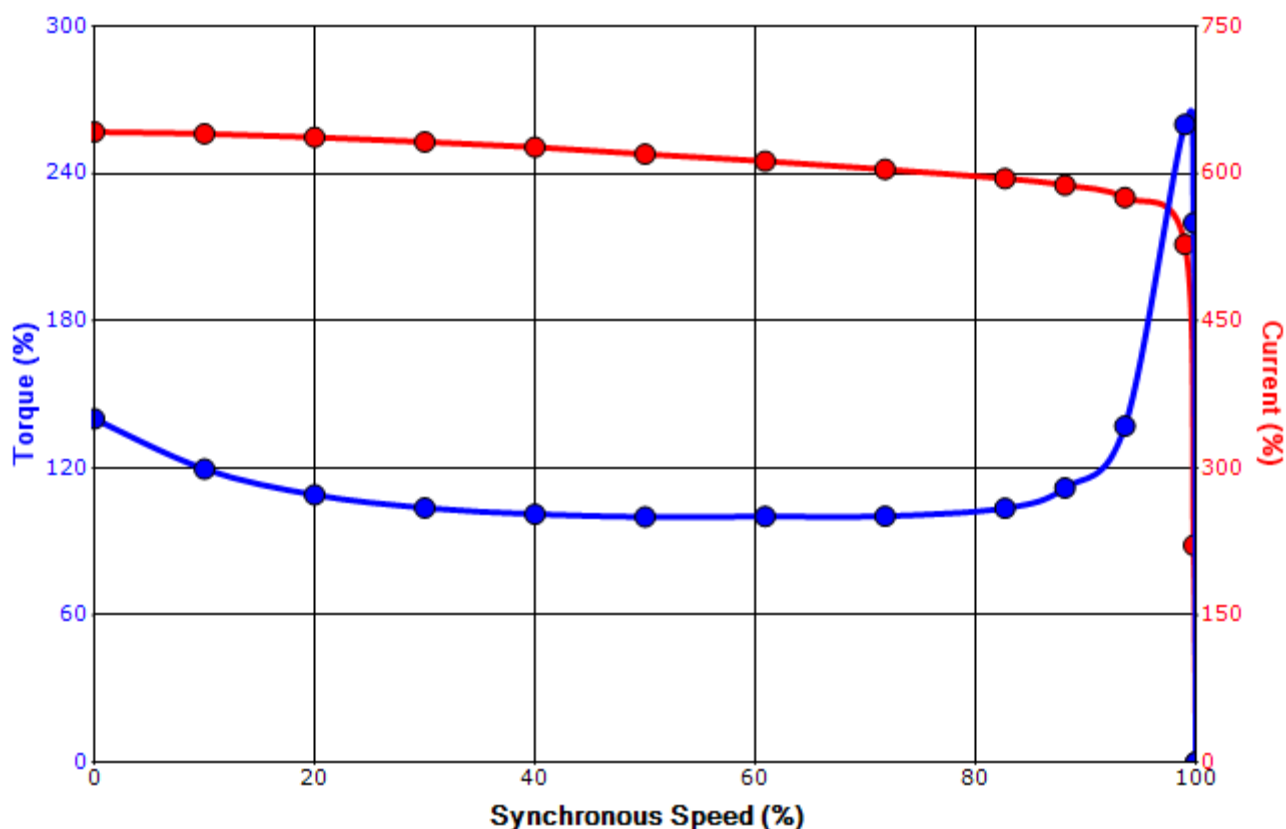
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie      | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 4/27/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 7003FTAB11F-A

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 700               | 522                                                 | 2                 | 3580             | 5811USS     | 460            | 60             | 3        | 800          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 54                                                  | 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 (%) |          |              |
| 5139              | 203.21                                              | 1027              | 140              | 105         |                | 260            |          |              |

### 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 | zxie      | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date  | 4/27/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

# Motor Connection Diagram

## 12 Leads

## Single Voltage



Switch L1 and L2 to reverse rotation