



UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | CONDUIT BOX | | | | | | | |
|------------|------------------|------|------|-------|-----|-----|-----|------|------|------|-------------|------------------|------|------|------|-----|------|------|
| | A | B | C | D | G | J | K | M | O | P | T | MAXIMUM KEY SEAT | AB | AC | AE | AF | XL | XN |
| 5010USS | 24.8 | 39.8 | 64.9 | 12.50 | 2.6 | 6.3 | 6.7 | 24.8 | 26.2 | 29.5 | 5.1 | 4.00 | 24.8 | 20.4 | 12.5 | 9.2 | 15.2 | 10.2 |
| 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 | 24.8 | 20.4 | 12.5 | 9.2 | 15.2 | 10.2 |
| 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 | 24.8 | 20.4 | 12.5 | 9.2 | 15.2 | 10.2 |

| FRAME SIZE | MOUNTING | | | | SHAFT EXTENSION | | | | KEY SEAT | | | | BEARINGS | | MAXIMUM WEIGHT |
|------------|----------|-------|-----|------|-----------------|-------|-------|-------|----------|-------|---------|---------|-----------|--|----------------|
| | E | ZF | H | BA | N-W | V | U | R | S | ES | LS | OS | | | |
| 5010USS | 10.00 | 32.00 | 1.2 | 8.50 | 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.00 | 6313C3 | NU313C3 | 4650 lbs. | | |
| 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 | | | |

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG NO's: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN): _____ HZ: _____
 FRAME SIZE: _____ PRODUCT TYPE: IEF3 EQP III 840 & 841
 COMMENTS: _____

PER: _____ DATE: _____

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE PRELIMINARY
 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, S x S x 5.00 FOR US, AND S x S x 3.00 FOR USS (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 - STANDARD 4-8 POLE PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
 - STANDARD 2 POLE PRODUCT USES UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

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

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



| | | | |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

TYPICAL MOTOR PERFORMANCE DATA

Model: B4004FLF4BMHD

| | | | | | | | | |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 400 | 298 | 4 | 1785 | 5010UZ | 460 | 60 | 3 | 450 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 96.2 | B | G | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 400 | 298.3 | 449.9 | 96.8 | 86.0 |
| ¾ Load | 300.00 | 223.7 | 347.1 | 96.3 | 84.1 |
| ½ Load | 200.00 | 149.1 | 252.6 | 94.9 | 78.1 |
| ¼ Load | 100.00 | 74.6 | 173.8 | 90.6 | 59.4 |
| No Load | | | 124.6 | | 4.8 |
| Locked Rotor | | | 2900 | | 38.0 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 1177 | 175 | 125 | 255 | 193.98 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|------|------------------------------|-----------|--------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 17.47 | 4.55 | - | NU324C3 | 6320C3 | 4625 |

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

Motor Options:
 Product Family:EQP Global 840
 Mounting:Footed,Shaft:UZ Shaft

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

Tag:

All characteristics are average expected values.

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

| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bmmamen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 11/3/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



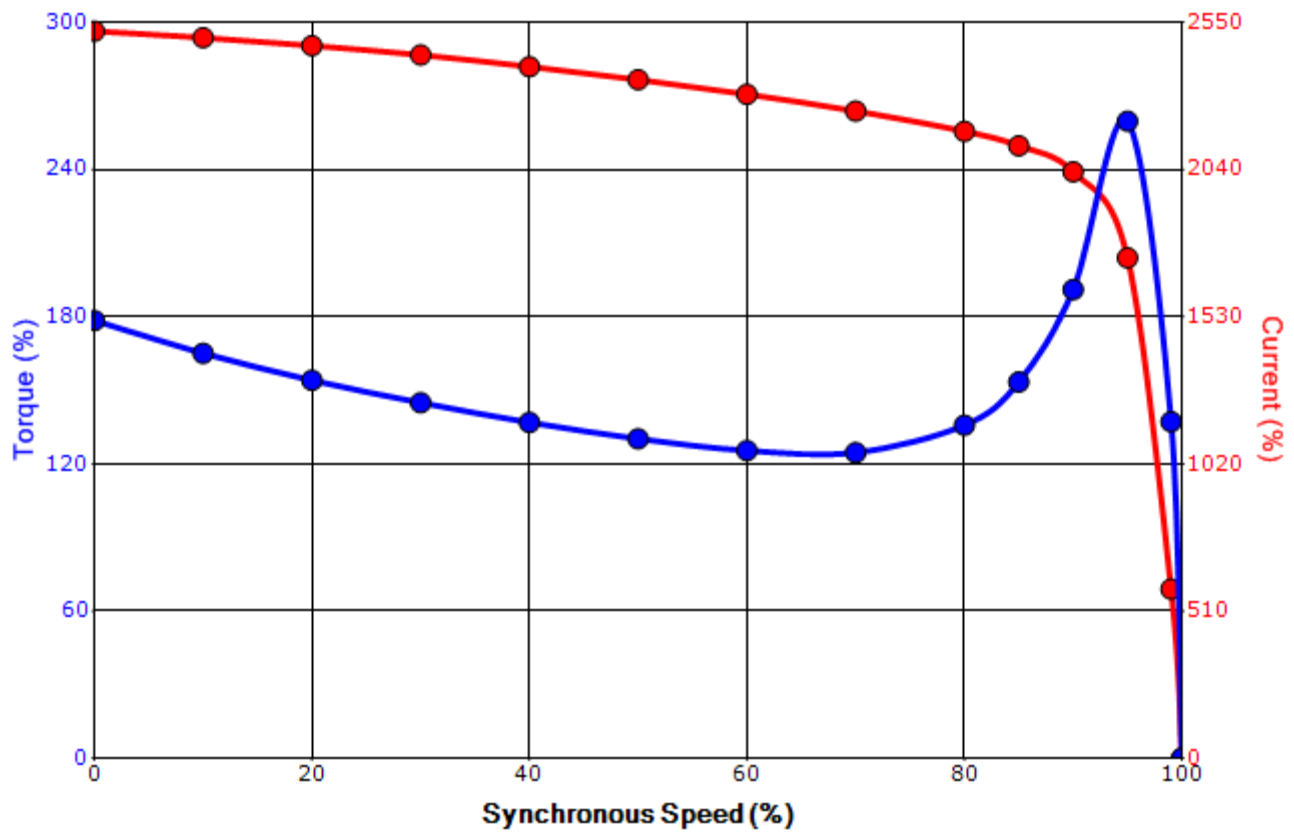
| | | | |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: B4004FLF4BMHD

| | | | | | | | | |
|-------------------|---|-------------------|------------------|--------|----------------|-------------|----------------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 400 | 298 | 4 | 1785 | 5010UZ | 460 | 60 | 3 | 450 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 96.2 | B | G | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 2900 | 193.98 | 1177 | 175 | | 125 | 255 | | |

Design Values



| | | | |
|-------------|--|--|-----|
| Customer | | wk ² Load Inertia (lb-ft ²) | - |
| Customer PO | | Load Type | - |
| Sales Order | | Voltage (%) | 100 |
| Project # | | Accel. Time | - |

Tag:

All characteristics are average expected values.

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

| | | | | | |
|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 11/3/2015 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

Motor Connection Diagram

12 Leads

Single Voltage



Switch L1 and L2 to reverse rotation