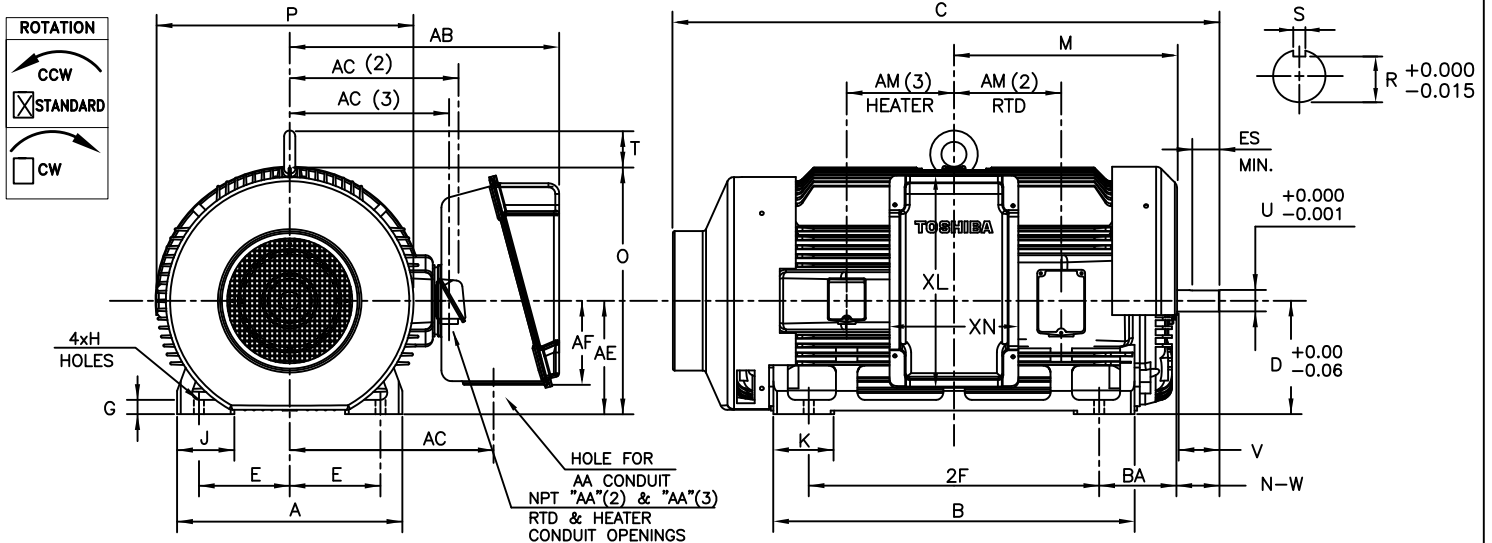


TOSHIBA/HOUSTON TOTALLY-ENCLOSED FAN-COOLED HORIZONTAL FOOT-MOUNTED (O.D.E ROLLER BRG) **Fr. 5010USS**
2-POLE
350-500Hp



| FRAME SIZE | MOUNTING | | | | CONDUIT BOX | | | | | | |
|------------|----------|------|------|------|-------------|------|------|------|-----|------|------|
| | E | 2F | H | BA | AA[NPT] | AB | AC | AE | AF | XL | XN |
| 5010USS | 10.00 | 32.0 | 1.12 | 8.50 | 4.00 | 29.7 | 22.5 | 12.5 | 9.3 | 23.4 | 14.2 |

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | |
|------------|------------------|------|------|-------|-----|-----|-----|------|------|------|-----|
| | A | B | C | D | G | J | K | M | O | P | T |
| 5010USS | 24.8 | 39.8 | 60.2 | 12.50 | 1.6 | 6.3 | 6.7 | 24.6 | 27.2 | 28.4 | 4.3 |

| FRAME SIZE | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | MAXIMUM WEIGHT |
|------------|-----------------|------|-------|----------|-------|------|----------|---------|----------------|
| | N-W | V | U | R | S | ES | LS | OS | |
| 5010USS | 4.75 | 4.50 | 2.375 | 2.021 | 0.625 | 3.03 | 6313C3 | NU313C3 | 4637 lbs. |

| FRAME SIZE | RTD AUX. BOX | | | | | HEATER AUX. BOX | | | | |
|------------|--------------|-------|------|-------|-------|-----------------|-------|------|-------|-------|
| | AA(2) | AC(2) | AE | AF(2) | AM(2) | AA(3) | AC(3) | AE | AF(3) | AM(3) |
| 5010USS | 1.5 | 15.58 | 12.5 | 5.1 | 11.8 | 0.75 | 11.3 | 12.5 | 2.56 | 11.81 |

MOTOR WITH

- AUX. RTD BOX
- AUX. HEATER BOX
- BOTH AUX. BOXES

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE.
 FOR CONSTRUCTION USE ONLY CERTIFIED DATA.

CERTIFIED DATA

NOTES:

- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
- CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS AND MAY BE MOUNTED ON OPPOSITE SIDE ON SPECIAL ORDER.
- KEY DIMENSIONS EQUAL S x S x 3.00 (MOTOR SUPPLIED WITH KEY)
- MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
- STANDARD UNITS USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE.

CUSTOMER: _____ P.O. NO.: _____ TAG NO.: _____

MOTOR MODEL NO.: _____ TOSHIBA FILE NO.: _____

HP: _____ RPM (SYN.): _____ VOLTAGE: _____ Hz: _____

FRAME SIZE: _____ LOG NO.: _____ LOG REV. LEVEL: _____

REMARKS: _____

PER: _____ ISSUE DATE: _____ SUPERSEDES: _____



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

TYPICAL MOTOR PERFORMANCE DATA

Model: B4001FLG8BMH

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|---------|----------------|-------------|----------|--------------|
| 400 | 298 | 2 | 3580 | 5010USS | 460 | 60 | 3 | 438 |
| 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 | 400 | 298.3 | 438.0 | 96.0 | 89.1 |
| ¾ Load | 300.00 | 223.7 | 329.4 | 95.9 | 87.7 |
| ½ Load | 200.00 | 149.1 | 230.0 | 95.2 | 84.0 |
| ¼ Load | 100.00 | 74.6 | 139.2 | 88.3 | 76.2 |
| No Load | | | 87.0 | | 6.1 |
| Locked Rotor | | | 2900 | | 30.0 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 587 | 200 | 130 | 210 | 129.14 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|---------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 14.1 | 3 | - | 6313C3 | NU313C3 | 4692 |

*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 | amills | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 2/14/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



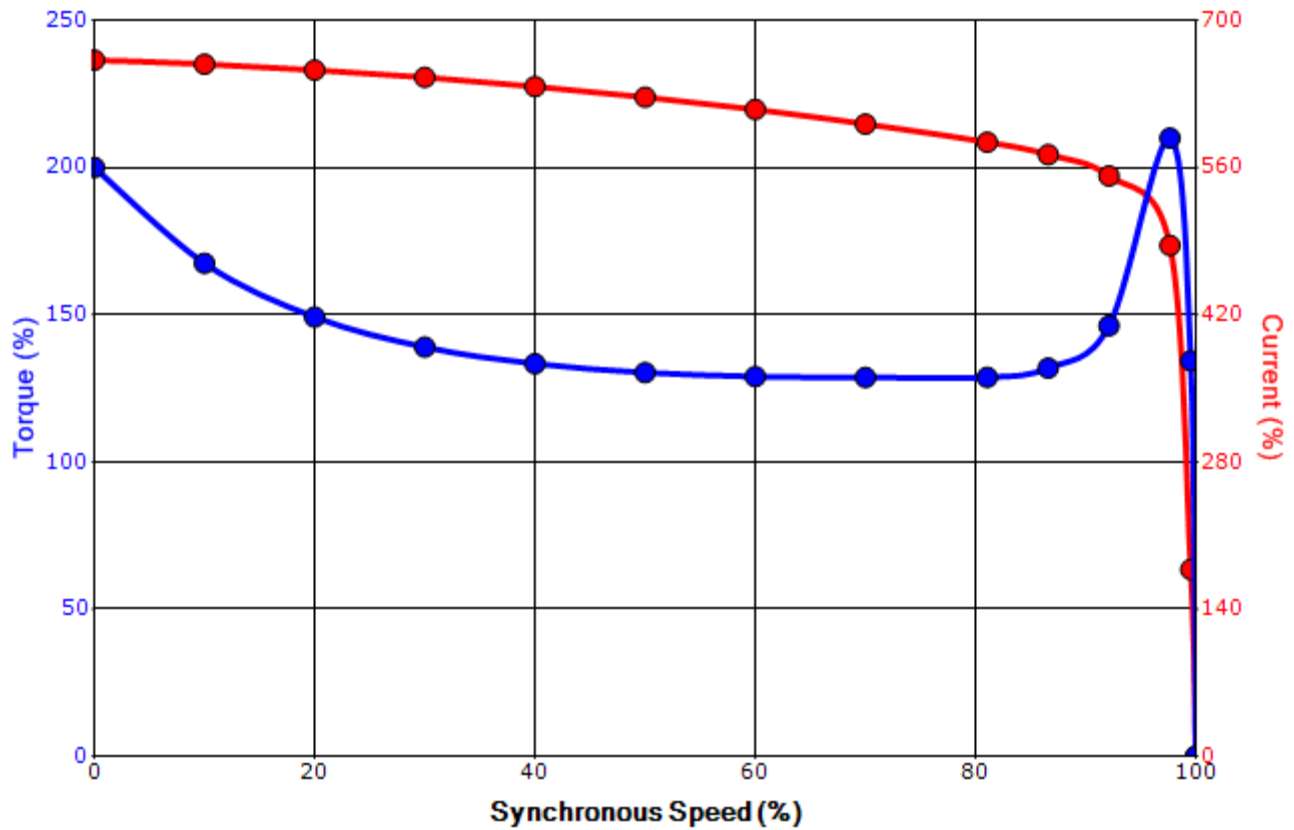
| | | | |
|-------------|-----------|------------|--|
| Issued Date | 9/24/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: B4001FLG8BMH

| | | | | | | | | |
|-------------------|---|-------------------|------------------|---------|----------------|-------------|----------------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 400 | 298 | 2 | 3580 | 5010USS | 460 | 60 | 3 | 438 |
| 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 ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 2900 | 129.14 | 587 | 200 | | 130 | 210 | | |

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 | amills | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 2/14/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

