



UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | CONDUIT BOX | | | | | | | | | |
|------------|------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-----------------|---------|---------|---------|----------|------|------|----------|--|----------------|
| | A | B | C | D | G | J | K | M | O | P | T | AM[PT] | 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 | 6.313C3 | NU313C3 | 6.320C3 | 6.320C3 | 4650 | lbs. | | | | |
| 5010US | 10.00 | 32.00 | 1.2 | 8.50 | 6.25 | 6.19 | 3.625 | 3.134 | 0.875 | 5.00 | 6.320C3 | 6.320C3 | 6.320C3 | 4650 | lbs. | | | | | |
| 5010UZ | 10.00 | 32.00 | 1.2 | 8.50 | 11.62 | 11.38 | 4.375 | 3.817 | 1.000 | 10.00 | NU324C3 | 6.320C3 | 6.320C3 | 4650 | lbs. | | | | | |

TAG NO's: _____

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

 PER: _____ DATE: _____

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 DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

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

- 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

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

XT SERIES
 VISIT OUR WEBSITE AT:
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TYPICAL MOTOR PERFORMANCE DATA

Model: B4001FLG80MHD

| | | | | | | | | |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 400 | 298 | 2 | 3580 | 5010TS | 575 | 60 | 3 | 346 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.8 | B | | 40 C |

| | | | | | |
|--------------|--------|-------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 400.00 | 298.3 | 346 | 96.2 | 90.0 |
| ¾ Load | 300.00 | 223.7 | 263 | 95.4 | 89.4 |
| ½ Load | 200.00 | 149.1 | 184 | 93.6 | 86.7 |
| ¼ Load | 100.00 | 74.6 | 112 | 88.2 | 75.4 |
| No Load | | | 63.4 | | 7.4 |
| Locked Rotor | | | 2320 | | 33.8 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque | | | | Rotor wk ² |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft ²) |
| 587 | 240 | 155 | 230 | 129.14 |

| | | | | | |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 18 | 9 | - | NU313C3 | 6313C3 | |

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

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

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

Tag:

All characteristics are average expected values.

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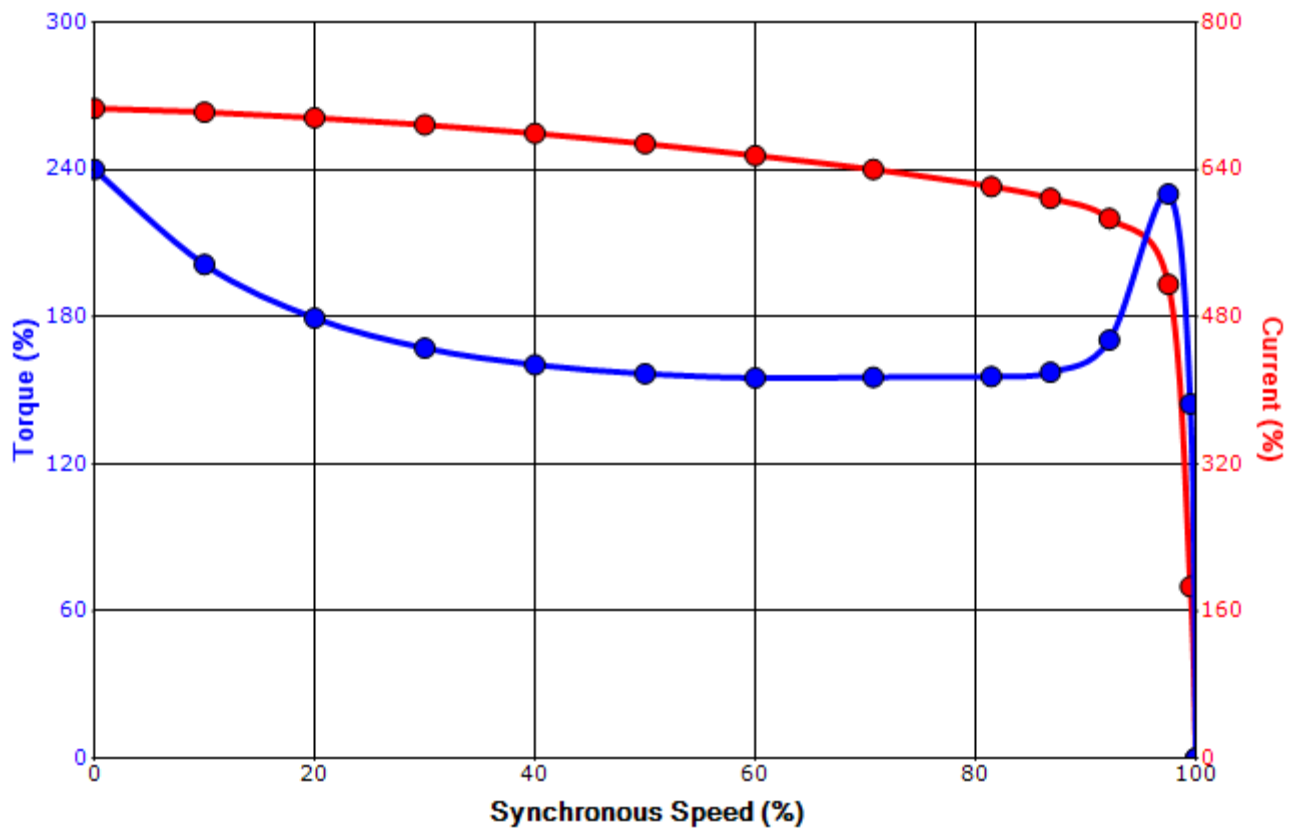
| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 9/24/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: B4001FLG80MHD

| | | | | | | | | |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 400 | 298 | 2 | 3580 | 5010TS | 575 | 60 | 3 | 346 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.8 | B | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) | | | |
| 2320 | 129.14 | 587 | 240 | 155 | 230 | | | |

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.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | zxie | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 9/24/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagram
3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.
If multiple cables represent a single lead, each one
of them will be labeled with the appropriate lead number.