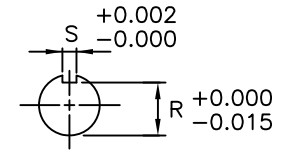
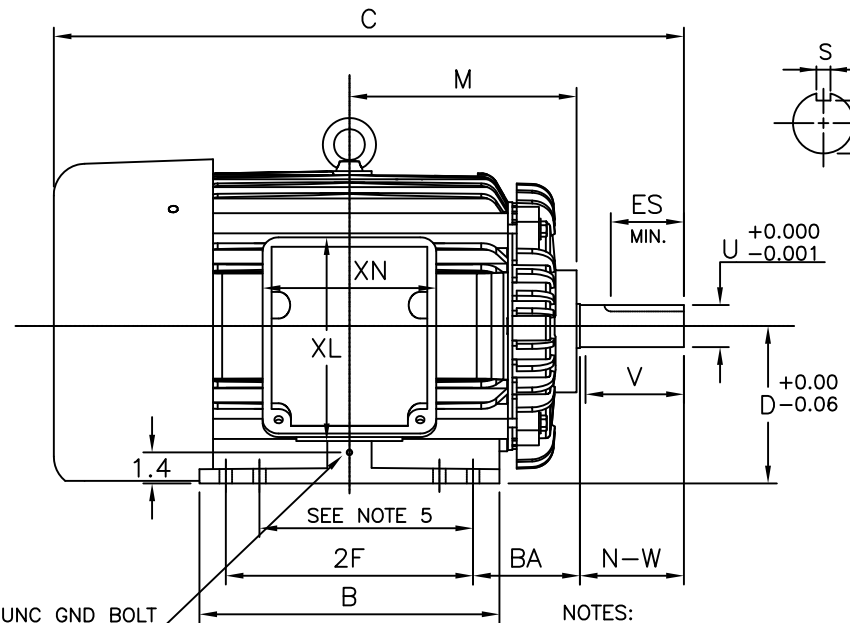


ROTATION
UNITS
BI-DIRECTIONAL
SEE NOTE 6



1/4"-20 UNC GND BOLT
SEE NOTE 7

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 3.25 FOR T AND S x S x 1.87 FOR TS (MOTOR SUPPLIED WITH KEY)
4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
5. THIS DIMENSION EQUALS 2F FOR 284T/TS MOUNTING
6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
7. FRAME GROUND BOLT STANDARD ON 841 PRODUCT

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | | CONDUIT BOX | | | | | | |
|-------------|------------------|------|------|------|-----|-----|---|------|------|------|-----|-------------|------|------|------|-----|-----|-----|
| | A | B | C | D | G | J | K | M | O | P | T | AA[NPT] | AB | AC | AE | AF | XL | XN |
| 284TS/286TS | 13.1 | 13.4 | 26.7 | 7.00 | 0.7 | 2.4 | 0 | 10.1 | 13.9 | 14.9 | 2.4 | 1.50 | 13.6 | 10.3 | 7.00 | 5.1 | 9.1 | 7.7 |
| 284T/286T | 13.1 | 13.4 | 28.0 | 7.00 | 0.7 | 2.4 | 0 | 10.1 | 13.9 | 14.9 | 2.4 | 1.50 | 13.6 | 10.3 | 7.00 | 5.1 | 9.1 | 7.7 |

| FRAME SIZE | MOUNTING | | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | MAXIMUM WEIGHT |
|-------------|----------|------------|------|------|-----------------|------|-------|----------|-------|------|----------|--------|----------------|
| | E | 2F | H | BA | N-W | V | U | R | S | ES | LS | OS | |
| 284TS/286TS | 5.50 | 9.50/11.00 | 0.56 | 4.75 | 3.25 | 3.00 | 1.625 | 1.416 | 0.375 | 1.88 | 6310C3 | 6310C3 | 471 lbs. |
| 284T/286T | 5.50 | 9.50/11.00 | 0.56 | 4.75 | 4.62 | 4.38 | 1.875 | 1.591 | 0.500 | 3.25 | 6310C3 | 6310C3 | 471 lbs. |

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

TAG NO's.: _____

PER: _____ DATE: _____

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

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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

TYPICAL MOTOR PERFORMANCE DATA

Model: B0304FLF3BMHJ01

| | | | | | | | | |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 30 | 22 | 4 | 1770 | 286T | 460 | 60 | 3 | 29 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 93.5 | B | E | 40 C |

| | | | | | |
|--------------|-------|------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 30 | 22.4 | 29.0 | 93.5 | 86.2 |
| ¾ Load | 22.50 | 16.8 | 27.0 | 93.9 | 84.1 |
| ½ Load | 15.00 | 11.2 | 19.7 | 93.5 | 77.7 |
| ¼ Load | 7.50 | 5.6 | 13.8 | 88.4 | 57.2 |
| No Load | | | 8.2 | | 7.1 |
| Locked Rotor | | | 174.00 | | 54.4 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque | | | | Rotor wk ² |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft ²) |
| 89 | 250 | 230 | 255 | 4.73 |

| | | | | | |
|--------------------|------|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 23 | 12.8 | - | 6310C3TMB | 6310C3 | |

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

Motor Options:
Product Family:EQPIII 841
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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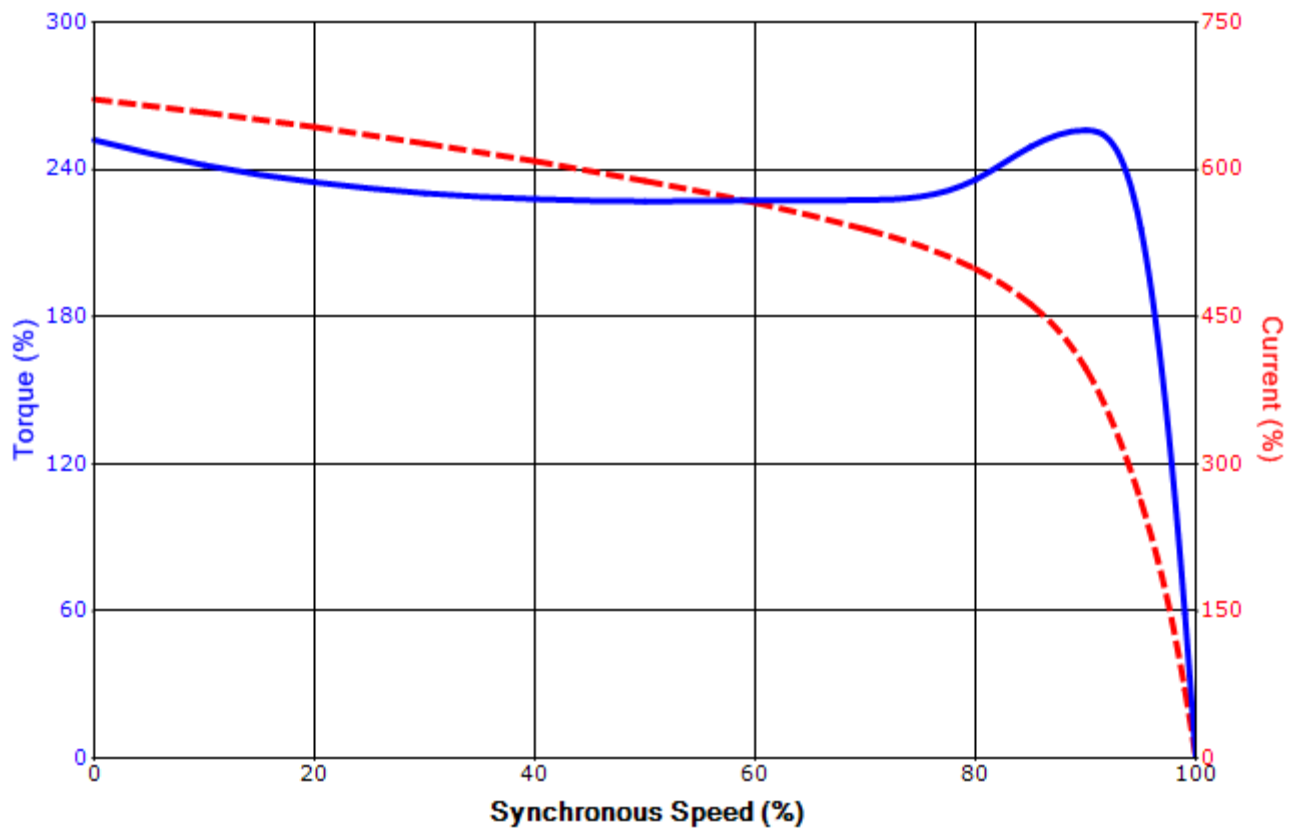
| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 6/26/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: B0304FLF3BMHJ01

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 30 | 22 | 4 | 1770 | 286T | 460 | 60 | 3 | 29 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 93.5 | B | E | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 174.00 | 4.73 | 89 | 250 | 230 | | 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.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 6/26/2014 | 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.