

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | | CONDUIT BOX | | | | | | |
|------------|------------------|-------------|------|-------|-----------------|-------|-------|----------|-------|-------|----------|----------------|-----------|----------------|------|-----|------|------|
| | A | B | C | D | G | J | K | M | O | P | T | MAXIMUM WEIGHT | AB | AC | AE | AF | XL | XN |
| 5810USS | 28.0 | 42.2 | 72.5 | 14.50 | 1.6 | 6.3 | 9.3 | 27.6 | 30.5 | 31.6 | 5.1 | 4.00 | 31.1 | 23.8 | 14.5 | 9.3 | 23.4 | 14.2 |
| 5810US | 28.0 | 42.2 | 72.3 | 14.50 | 1.6 | 6.3 | 9.3 | 27.6 | 30.5 | 31.6 | 5.1 | 4.00 | 31.1 | 23.8 | 14.5 | 9.3 | 23.4 | 14.2 |
| 5810UZ | 28.0 | 42.2 | 77.6 | 14.50 | 1.6 | 6.3 | 9.3 | 27.6 | 30.5 | 31.6 | 5.1 | 4.00 | 31.1 | 23.8 | 14.5 | 9.3 | 23.4 | 14.2 |
| FRAME SIZE | MOUNTING | | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | | MAXIMUM WEIGHT | | | | |
| | E | ZF | H | BA | N-W | V | U | R | S | ES | LS | OS | | | | | | |
| 5810USS | 11.50 | 36.00/32.00 | 1.2 | 10.00 | 6.75 | 6.50 | 2.375 | 2.021 | 0.625 | 5.00 | 6313C3 | NU313C3 | 7800 lbs. | | | | | |
| 5810US | 11.50 | 36.00/32.00 | 1.2 | 10.00 | 6.25 | 6.19 | 3.625 | 3.134 | 0.875 | 5.00 | 6320C3 | 6320C3 | 7800 lbs. | | | | | |
| 5810UZ | 11.50 | 36.00/32.00 | 1.2 | 10.00 | 11.62 | 11.38 | 5.250 | 4.550 | 1.250 | 10.00 | NU328C3 | 6320C3 | 7800 lbs. | | | | | |

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

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ HZ: _____
 FRAME SIZE: _____ PRODUCT TYPE: IEFEC EGP III, EPACK, & HIGH EFFICIENCY QUARRY DUTY
 COMMENTS: _____

PER: _____ DATE: _____

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- 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 AND S x S x 5.00 FOR USS & US (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 - THIS DIMENSION EQUALS 2F FOR 5809USS/US/UZ MOUNTING
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN, OPPOSITE ROTATION AVAILABLE ONLY BY 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
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TYPICAL MOTOR PERFORMANCE DATA

Model: F6006FLF4BMQ

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| 600 | 447 | 6 | 1190 | 5810UZ | 460 | 60 | 3 | 727 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 54 | F | 1.15 | CONT | 95.4 | - | G | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 600 | 447.4 | 727.0 | 95.7 | 80.7 |
| ¾ Load | 450.00 | 335.6 | 620.0 | 95.4 | 78.1 |
| ½ Load | 300.00 | 223.7 | 482.3 | 94.6 | 70.9 |
| ¼ Load | 150.00 | 111.9 | 378.8 | 91.1 | 40.7 |
| No Load | | | 272.0 | | 3.2 |
| Locked Rotor | | | 4512.00 | | 27.2 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 2648 | 210 | 155 | 295 | 468.19 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|--------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 13.3 | 6.3 | - | NU328C3 | 6320C3 | |

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

Motor Options:
Product Family:Quarry
Mounting:Footed,Shaft:UZ Shaft,Motor Specification:Quarry Duty

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

Tag:

All characteristics are average expected values.

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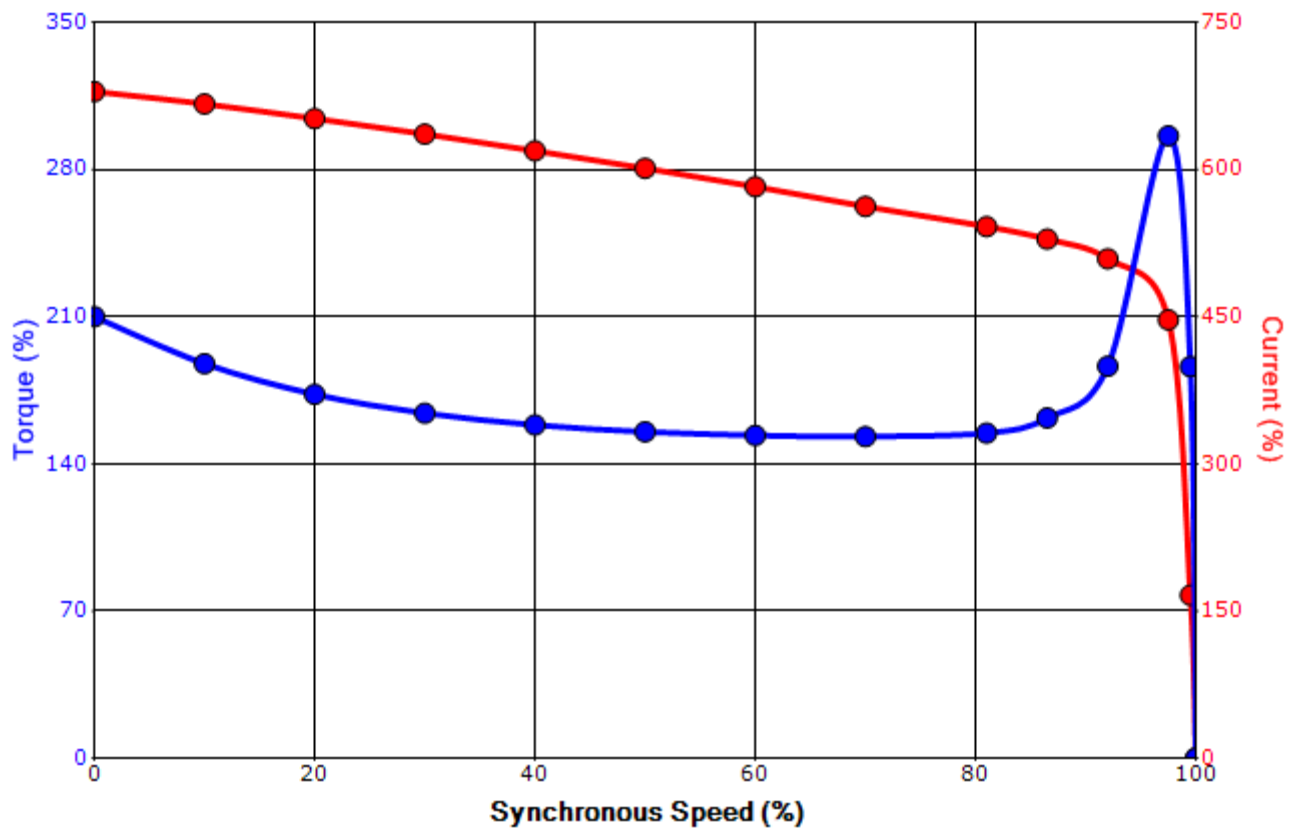
| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 7/24/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: F6006FLF4BMQ

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 600 | 447 | 6 | 1190 | 5810UZ | 460 | 60 | 3 | 727 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 54 | F | 1.15 | CONT | 95.4 | - | G | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 4512.00 | 468.19 | 2648 | 210 | 155 | | | 295 | |

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 | 7/24/2014 | 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.