

UNITS: INCHES

| FRAME SIZE | MOTOR DIMENSIONS | | | | | | | | | | | CONDUIT BOX | | | | | | |
|---------------|------------------|------|------|-------|-----|-----|-----------|------|------|------|-----|-------------|------|------|------|-----|------|------|
| | A | B | C | D | G | J | K | M | O | P | T | AA | AB | AC | AE | AF | XL | XN |
| 5809/10/11USS | 28.0 | 50.3 | 76.3 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00 | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |
| 5809/10/11US | 28.0 | 50.3 | 76.8 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00 | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |
| 5809/10/11UZ | 28.0 | 50.3 | 82.2 | 14.50 | 1.6 | 6.3 | 16.5/11.4 | 29.7 | 29.7 | 35.0 | 4.8 | 4.00 | 31.3 | 24.0 | 23.8 | 8.7 | 23.4 | 18.9 |

| FRAME SIZE | MOUNTING | | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | MAXIMUM WEIGHT |
|---------------|----------|-------------------|-------|-------|-----------------|-------|-------|----------|-------|-------|----------|--------|----------------|
| | E | 2F | H | BA | N-W | V | U | R | S | ES | LS | OS | |
| 5809/10/11USS | 11.50 | 32.00/36.00/40.00 | 1.125 | 10.00 | 5.74 | 5.65 | 2.625 | 2.275 | 0.625 | 3.03 | 6315C3 | 6315C3 | 7000 lbs. |
| 5809/10/11US | 11.50 | 32.00/36.00/40.00 | 1.125 | 10.00 | 6.25 | 6.19 | 4.000 | 3.436 | 1.000 | 5.03 | 6322C3 | 6322C3 | |
| 5809/10/11UZ | 11.50 | 32.00/36.00/40.00 | 1.125 | 10.00 | 11.62 | 11.38 | 5.250 | 4.550 | 1.250 | 10.03 | NU328C3 | 6322C3 | |

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
- THIS DIMENSION EQUALS 2F FOR 5810USS/US/UZ MOUNTING
- THIS DIMENSION EQUALS 2F FOR 5809USS/US/UZ MOUNTING
- STANDARD 4~8 POLE PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
- STANDARD 2 POLE PRODUCT USE UNI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY FAN AND CONNECTION CHANGE

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG No's.: _____
P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ Hz: _____
FRAME SIZE: 5809/5810/5811 PRODUCT TYPE: TEFC EQP III, EPACKT, & HIGH EFFICIENCY
COMMENTS: _____
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

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TYPICAL MOTOR PERFORMANCE DATA

Model: 6004FTAB11E-A

| | | | | | | | | |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 600 | 447 | 4 | 1785 | 5810US | 460 | 60 | 3 | 668 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.4 | - | | 40 C |

| | | | | | |
|--------------|--------|-------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 600.00 | 447.4 | 668 | 95.4 | 88.7 |
| ¾ Load | 450.00 | 335.6 | 508 | 94.6 | 88.0 |
| ½ Load | 300.00 | 223.7 | 359 | 92.9 | 84.7 |
| ¼ Load | 150.00 | 111.9 | 227 | 86.8 | 71.3 |
| No Load | | | 134.0 | | 9.6 |
| Locked Rotor | | | 4004 | | 32.9 |

| | | | | |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Torque | | | | Rotor wk² Inertia (lb-ft²) |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 1765 | 210 | 155 | 255 | 342.29 |

| | | | | | |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold | Hot | | DE | NDE | |
| 13 | 6 | - | 6322C3 | 6322C3 | 7000 |

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

Motor Options:
Product Family:TEFC
Mounting:Footed,Shaft:US Shaft

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

Tag:

All characteristics are average expected values.

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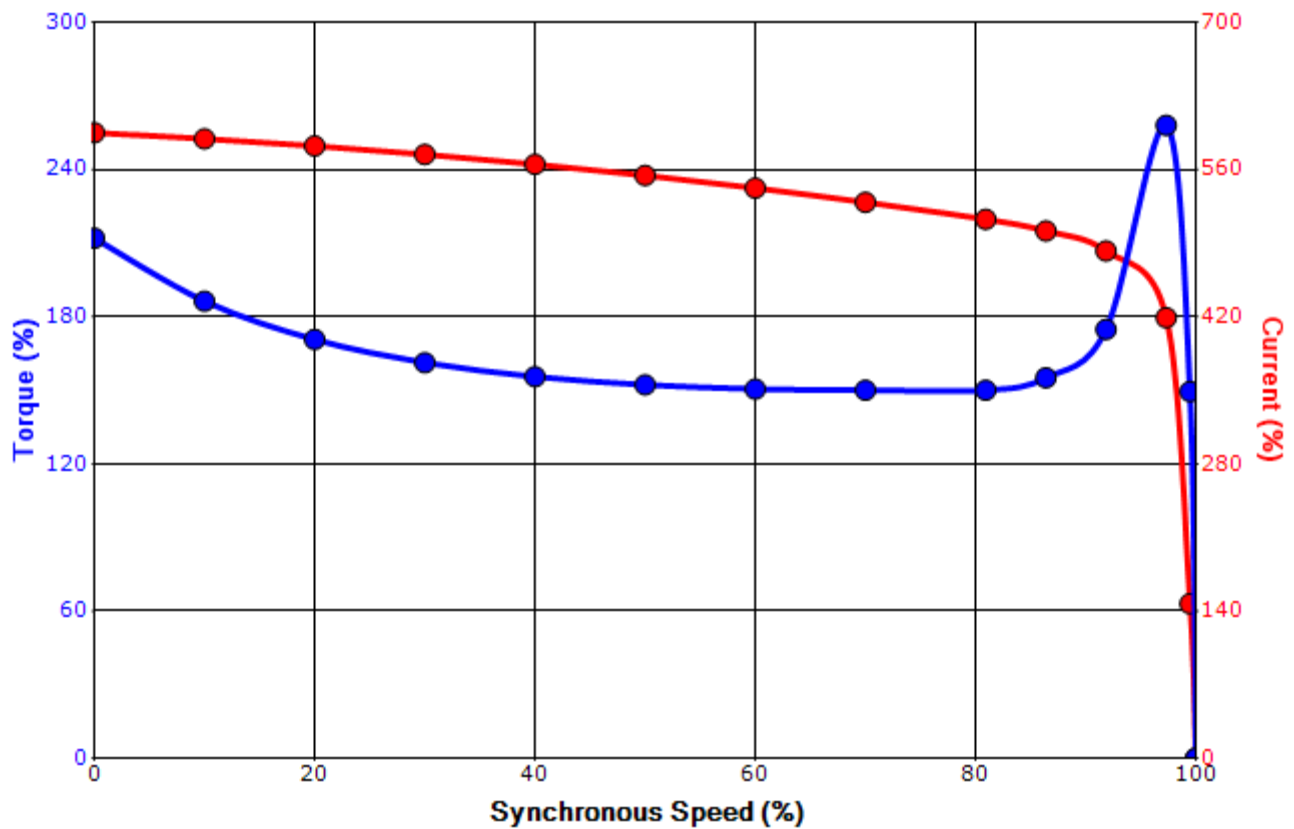
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|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 7/23/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: 6004FTAB11E-A

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 600 | 447 | 4 | 1785 | 5810US | 460 | 60 | 3 | 668 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 95.4 | - | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 4004 | 342.29 | 1765 | 210 | 155 | | | 255 | |

Design Values



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

Tag:

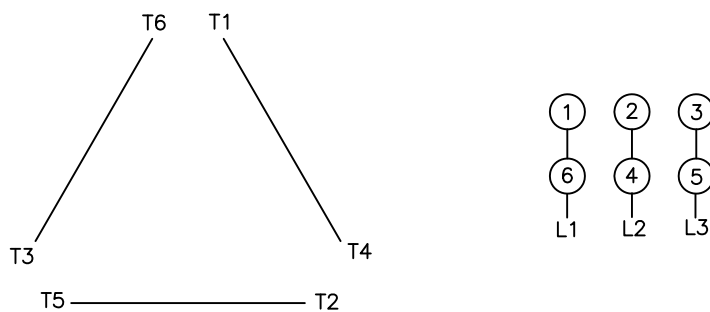
All characteristics are average expected values.

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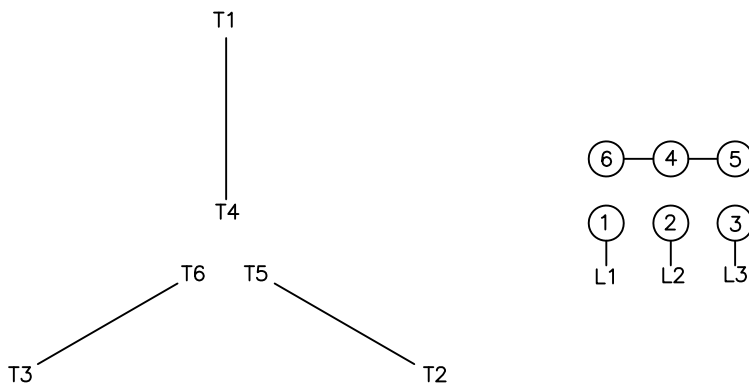
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|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 7/23/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation