

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 | | |
| 5810US | 29.6 | 40.6 | 64.4 | 14.50 | 1.6 | 7.5 | 9.9 | 25.8 | 29.3 | 29.6 | 5.8 | 4.00 | 34.5 | 26.8 | 17.5 | 11.2 | 28.7 | 16.7 | | |
| 5810UZ | 29.6 | 40.6 | 67.8 | 14.50 | 1.6 | 7.5 | 9.9 | 25.8 | 29.3 | 29.6 | 5.8 | 4.00 | 34.5 | 26.8 | 17.5 | 11.2 | 28.7 | 16.7 | | |
| FRAME SIZE | MOUNTING | | | | | | | | | | SHAFT EXTENSION | | | KEY SEAT | | | BEARINGS | | | MAXIMUM WEIGHT |
| E | 2F | H | BA | N-W | V | U | R | S | ES | LS | OS | | | | | | | | | |
| 5810US | 11.5 | 36.00 | 1.38 | 10.0 | 8.27 | 8.00 | 4.000 | 3.436 | 1.000 | 6.90 | 6322C3 | 6320C3* | | | | 4800 lbs. | | | | |
| 5810UZ | 11.5 | 36.00 | 1.38 | 10.0 | 11.63 | 11.38 | 5.375 | 4.676 | 1.250 | 10.00 | NU2232C3 | 6320C3* | | | | | | | | |

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

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ HZ: _____
 FRAME SIZE: _____ PRODUCT TYPE: ODP EQP III, EPACT, & HIGH EFFICIENCY
 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 6.88 FOR US AND S x S x 10.00 (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 - OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
 - *INSULATED BEARING

TOSHIBA
 TOSHIBA INTERNATIONAL CORPORATION
 OPEN DRIP-PROOF
 HORIZONTAL FOOT-MOUNTED
 3 PHASE INDUCTION MOTOR
 F1 ASSEMBLY

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

TYPICAL MOTOR PERFORMANCE DATA

Model: F7004VLF4OM

| | | | | | | | | |
|-----------|-----|------------|--------|--------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 700 | 522 | 4 | 1785 | 5810UZ | 575 | 60 | 3 | 679 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP | 22 | F | 1.15 | CONT | 95.4 | - | F | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 700 | 522.0 | 679.2 | 95.4 | 80.9 |
| ¾ Load | 525.00 | 391.5 | 533.7 | 94.9 | 77.6 |
| ½ Load | 350.00 | 261.0 | 403.6 | 93.7 | 69.3 |
| ¼ Load | 175.00 | 130.5 | 301.7 | 89.7 | 48.4 |
| No Load | | | 241.6 | | 2.9 |
| Locked Rotor | | | 3740.9 | | 30.1 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|-------------------|----------------------|-----------------|--------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 2060 | 185 | 135 | 265 | 261.59 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|------------|----------------------------|
| Cold | Hot | | DE | NDE | |
| 9.2 | 2.5 | - | NU2232C3 | 6320C3 INS | |

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

Motor Options:
 Product Family:ODP
 Mounting:Footed,Shaft:UZ Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | bmmamen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 1/5/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



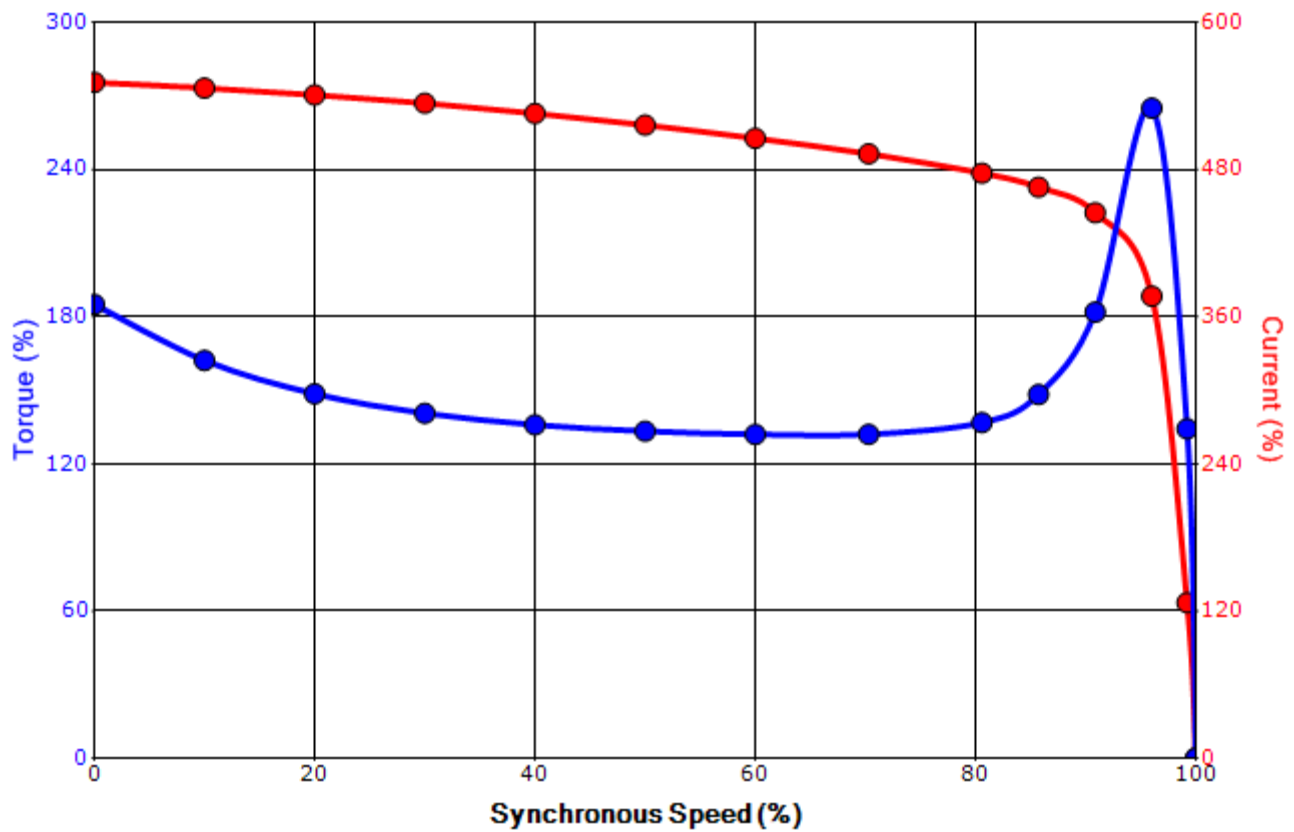
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|-------------|-----------|------------|--|
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SPEED TORQUE/CURRENT CURVE

Model: F7004VLF4OM

| | | | | | | | | |
|-------------------|---|-------------------|------------------|--------|----------------|-------------|----------------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 700 | 522 | 4 | 1785 | 5810UZ | 575 | 60 | 3 | 679 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| ODP | 22 | F | 1.15 | CONT | 95.4 | - | F | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 3740.9 | 261.59 | 2060 | 185 | | 135 | 265 | | |

Design Values



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

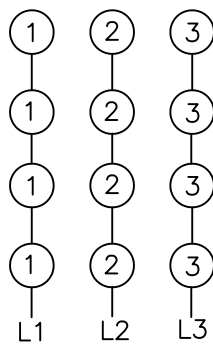
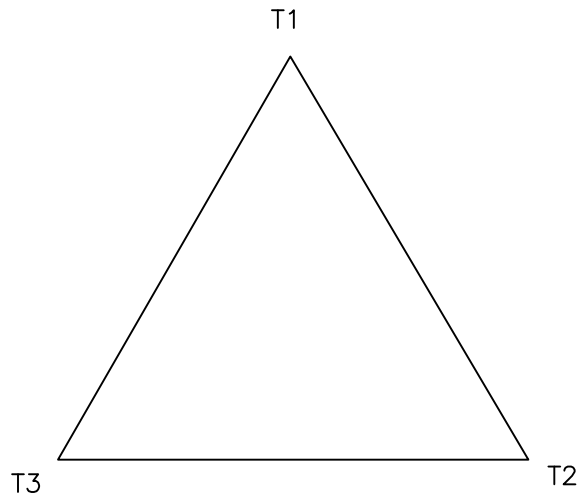
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|-------------|----------|------------------|-------------|-------------|-------------|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 1/5/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

Motor Connection Diagrams
12 Leads - CLOSED DELTA Connection
Single Voltage



Switch L1 and L2 to reverse rotation