

- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
 2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 3. KEY DIMENSIONS EQUAL 0.5"x0.5"x2" (MOTOR SUPPLIED WITH KEY)

UNITS: INCHES

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

**320TSC TEXP FRAME
F1 ASSEMBLY**

MDSLVL805-06

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

| | |
|-------|-------|
| .X | .1 |
| .XX | .03 |
| .XXX | .005 |
| .XXXX | .0005 |

MAXIMUM
MOTOR WEIGHT

755 lbs.
342 kgs.

| | | | | |
|----|-------------|----------|----------|-------|
| 0 | FIRST ISSUE | MO | 04/09/14 | JR |
| NO | REVISION | DRAWN BY | DATE | CHECK |



DRAWN BY: M. O'DOWD
CHECK BY: J. RUSSELL
APPROVED BY:

www.toshiba.com/ind

TYPICAL MOTOR PERFORMANCE DATA

Model: 0752XPEA42B-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|----|------------|--------|--------|----------------|-------------|----------|--------------|
| 75 | 55 | 2 | 3550 | 326TSC | 230/460 | 60 | 3 | 172/86 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 93.6 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load | 75.00 | 55.9 | 86 | 93.6 | 89.3 |
| ¾ Load | 56.25 | 41.9 | 65 | 93.2 | 88.6 |
| ½ Load | 37.50 | 28.0 | 46 | 91.6 | 84.7 |
| ¼ Load | 18.75 | 14.0 | 31 | 86.0 | 65.3 |
| No Load | | | 21.0 | | |
| Locked Rotor | | | 542 | | 34.3 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|-------------------|----------------------|-----------------|--------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 111 | 215 | 185 | 270 | 12.57 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold | Hot | | DE | NDE | |
| 17 | 8 | - | 6312C3 | 6312C3 | |

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

Motor Options:
Mounting:C-Face Footed,Shaft:TS Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | pdivecha | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 4/30/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

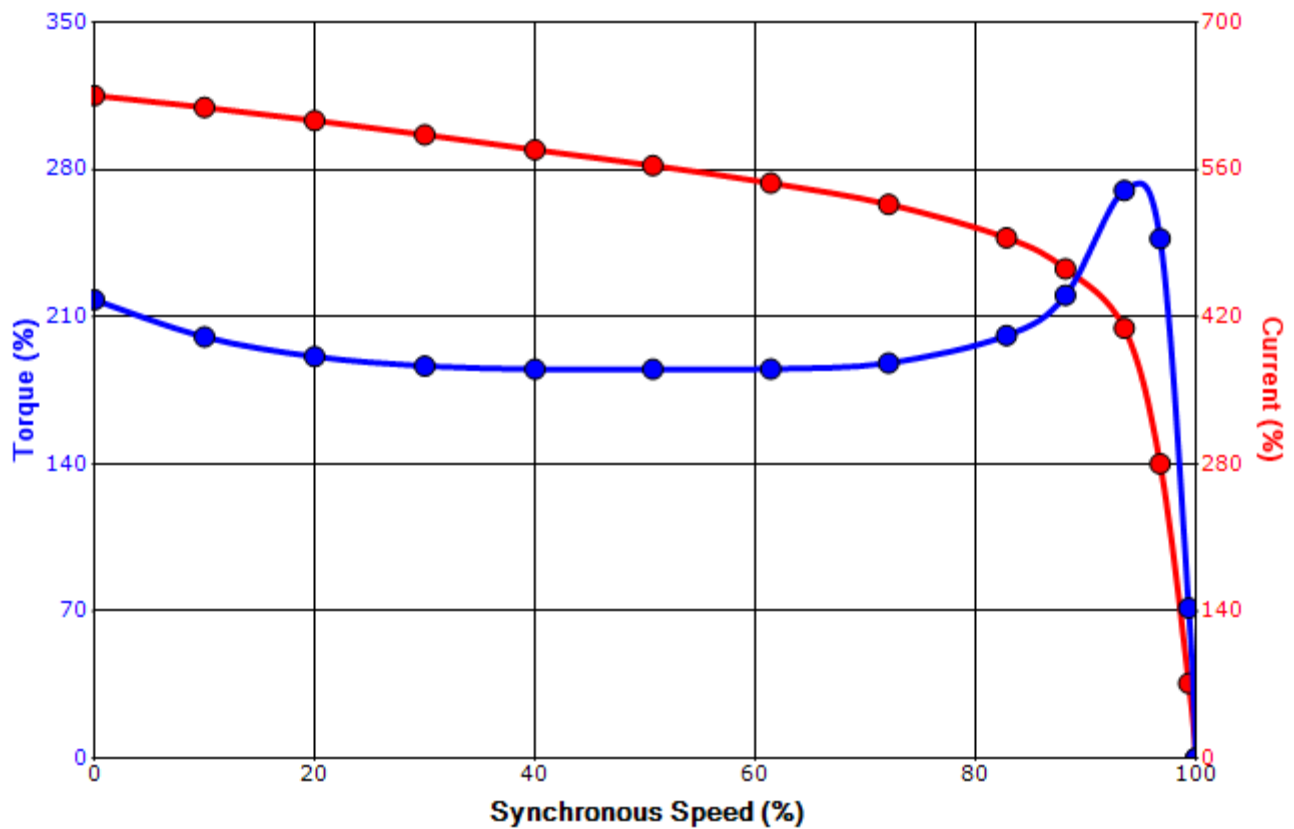
| | | | |
|-------------|-----------|------------|--|
| Issued Date | 5/11/2023 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: 0752XPEA42B-P

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 75 | 55 | 2 | 3550 | 326TSC | 230/460 | 60 | 3 | 172/86 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 93.6 | B | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) | | | |
| 542 | 12.57 | 111 | 215 | 185 | 270 | | | |

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.

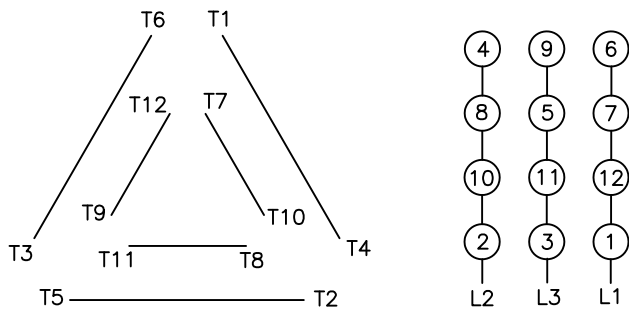
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|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | pdivecha | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 4/30/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

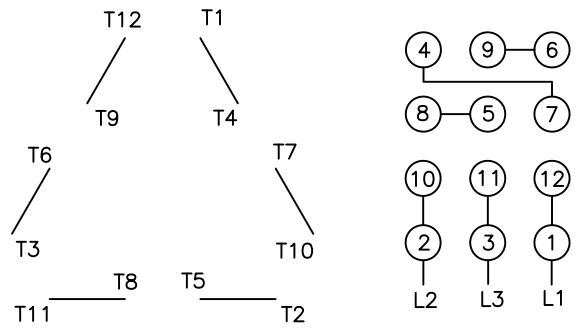
Motor Connection Diagrams
12 Leads

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting.
Please Contact Toshiba International for specific connections.