


- 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 (MOTOR SUPPLIED WITH KEY)
- 0.188" x 0.188" x 1.38"

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.

| | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------|-----------|-----------------|-----------|-----------------|-----------|--------------|-----------------|-------------|--------------|---------------------|------------------|-------------------|----------------------------|--|---------------------------------------------------------------------------------------|
| <p>140TC TEXP FRAME F1 C-FLANGE ASSEMBLY</p> | <p>TOLERANCES</p> <p>.X .1</p> <p>.XX .03</p> <p>.XXX .005</p> <p>.XXXX .0005</p> | | | | | | | | | | | | | | | | |  |
| <p>MDSL802-01</p> | <p>MAXIMUM MOTOR WEIGHT</p> <p>77 lbs.</p> <p>35 kgs.</p> | <p>0</p> | <p>FIRST ISSUE (OVERRIDE D, R, & S DIMS.)</p> | <p>NO</p> | <p>REVISION</p> | <p>MO</p> | <p>03/14/14</p> | <p>JR</p> | <p>CHECK</p> | <p>DRAWN BY</p> | <p>DATE</p> | <p>CHECK</p> | <p>APPROVED BY:</p> | <p>M. O'DOWD</p> | <p>J. RUSSELL</p> | <p>www.toshiba.com/ind</p> | | |

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TYPICAL MOTOR PERFORMANCE DATA

Model: Y154XPEA42A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 1.50 | 1.1 | 4 | 1755 | 145TC | 230/460 | 60 | 3 | 4.5/2.2 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 86.5 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load | 1.50 | 1.1 | 2.2 | 85.8 | 73.1 |
| ¾ Load | 1.12 | 0.8 | 1.9 | 84.7 | 65.3 |
| ½ Load | 0.75 | 0.6 | 1.6 | 81.0 | 52.7 |
| ¼ Load | 0.37 | 0.3 | 1.5 | 69.1 | 33.8 |
| No Load | | | 1.3 | | 8.2 |
| Locked Rotor | | | 17.1 | | 54.3 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|-----------------------------------------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 4.49 | 260 | 325 | 365 | 0.12 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|----------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 35 | 15 | - | 6305ZZC3 | 6305ZZC3 | 75 |

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

Motor Options:

Product Family:EQP Global Explosion Proof
Mounting:C-Face Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|------------|------------------|-------------|-------------|---------------|
| Engineering | aguerretaz | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 4/28/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

TYPICAL MOTOR PERFORMANCE DATA

Model: Y154XPEA42A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 1.50 | 1.1 | 4 | 1440 | 145TC | 190/380 | 50 | 3 | 5.2/2.6 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.0 | CONT | 84.0 | B | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load | 1.50 | 1.1 | 2.6 | 86.1 | 69.5 |
| ¾ Load | 1.13 | 0.8 | 2.0 | 85.7 | 62.2 |
| ½ Load | 0.75 | 0.6 | 1.7 | 83.1 | 50.1 |
| ¼ Load | 0.38 | 0.3 | 1.4 | 71.5 | 40.4 |
| No Load | | | 1.3 | | 8.4 |
| Locked Rotor | | | 25 | | 72.9 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|-----------------------------------------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 5.47 | 250 | 195 | 280 | 0.12 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|---------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 17 | 12 | - | 6305ZC3 | 6305ZC3 | 75 |

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

Motor Options:
Product Family:EQP Global Explosion Proof
Mounting:C-Face Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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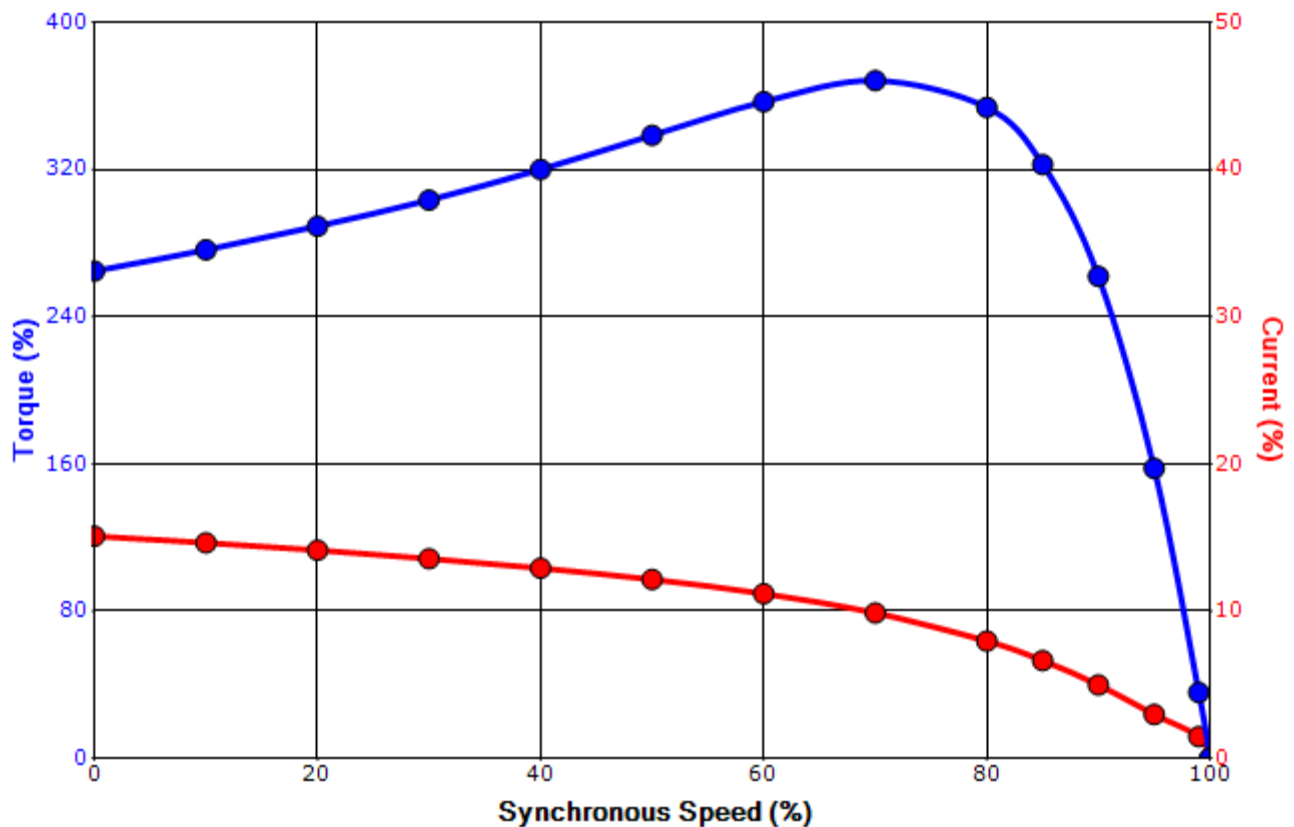
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|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | jhock | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 4/3/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: Y154XPEA42A-P

| | | | | | | | | |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 1.50 | 1.1 | 4 | 1755 | 145TC | 230/460 | 60 | 3 | 4.5/2.2 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 86.5 | B | | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 17.1 | 0.12 | 4.49 | 260 | 325 | | | 365 | |

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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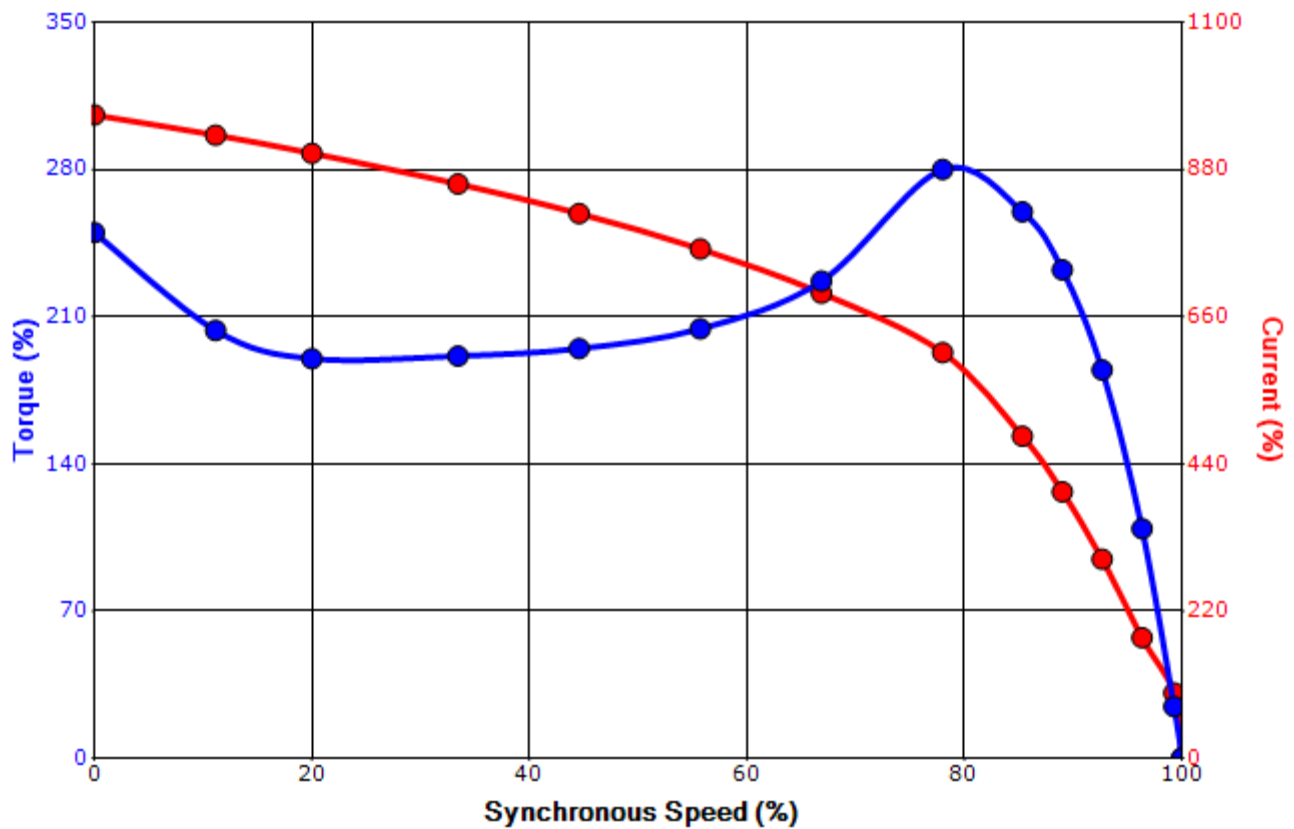
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|-------------|-------------|------------------|-------------|-------------|---------------|
| Engineering | aguerrettaz | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 4/28/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

SPEED TORQUE/CURRENT CURVE

Model: Y154XPEA42A-P

| | | | | | | | | |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
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| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 25 | 0.12 | 5.47 | 250 | 195 | | | 280 | |

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 | jhock | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 4/3/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

Motor Connection Diagrams
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation