



UNITS: INCHES

ROTATION FROM NDE

| | |
|---|---|
|  |  |
| <input checked="" type="checkbox"/> CCW | <input type="checkbox"/> CW |

NOTES:
 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 3. KEY DIMENSIONS EQUAL 0.188"x 0.188"x 1.38" (MOTOR SUPPLIED WITH KEY)

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

TOSHIBA
 www.toshiba.com/tic
 TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED
 FOOTED C-FACED (NEMA BA)
 3 PHASE INDUCTION MOTOR
 143TC-145TC F1 ASSEMBLY

DRAWING #: MDSL005-01
 REV. DATE: 06/20/18 REV. #: 4 PER.: M. O'DOWD
 REV. DESCRIP.:



| | | | |
|-------------|------------|------------|--|
| Issued Date | 12/18/2019 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

TYPICAL MOTOR PERFORMANCE DATA

Model: Y152SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 1.50 | 1.1 | 2 | 3490 | 143TC | 230/460 | 60 | 3 | 4.0/2.0 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 84 | B | L | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load | 1.50 | 1.1 | 2.0 | 84.3 | 83.2 |
| ¾ Load | 1.13 | 0.8 | 1.5 | 83.5 | 78.6 |
| ½ Load | 0.75 | 0.6 | 1.2 | 80.4 | 68.1 |
| ¼ Load | 0.38 | 0.3 | 1.0 | 69.2 | 47.8 |
| No Load | | | 1.0 | | 10.5 |
| Locked Rotor | | | 18 | | 75.8 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 2.26 | 265 | 225 | 360 | 0.05 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|----------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 28 | 15 | - | 6305ZZC3 | 6305ZZC3 | 0 |

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

Motor Options:
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 | mcampbell | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 2/27/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



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TYPICAL MOTOR PERFORMANCE DATA

Model: Y152SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 1.50 | 1.1 | 2 | 2855 | 143TC | 190/380 | 50 | 3 | 5.0/2.5 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.0 | CONT | 80 | B | L | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load | 1.50 | 1.1 | 2.5 | 84.2 | 81.0 |
| ¾ Load | 1.13 | 0.8 | 1.8 | 84.6 | 76.0 |
| ½ Load | 0.75 | 0.6 | 1.4 | 82.8 | 65.8 |
| ¼ Load | 0.38 | 0.3 | 1.1 | 69.9 | 54.5 |
| No Load | | | 0.8 | | 12.3 |
| Locked Rotor | | | 22 | | 95.2 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 2.76 | 180 | 170 | 250 | 0.05 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|----------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 32 | 8 | - | 6305ZZC3 | 6305ZZC3 | 0 |

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

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

| | |
|-------------|--|
| Customer | |
| Customer PO | |
| Sales Order | |
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| Engineering | jhock | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 4/3/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



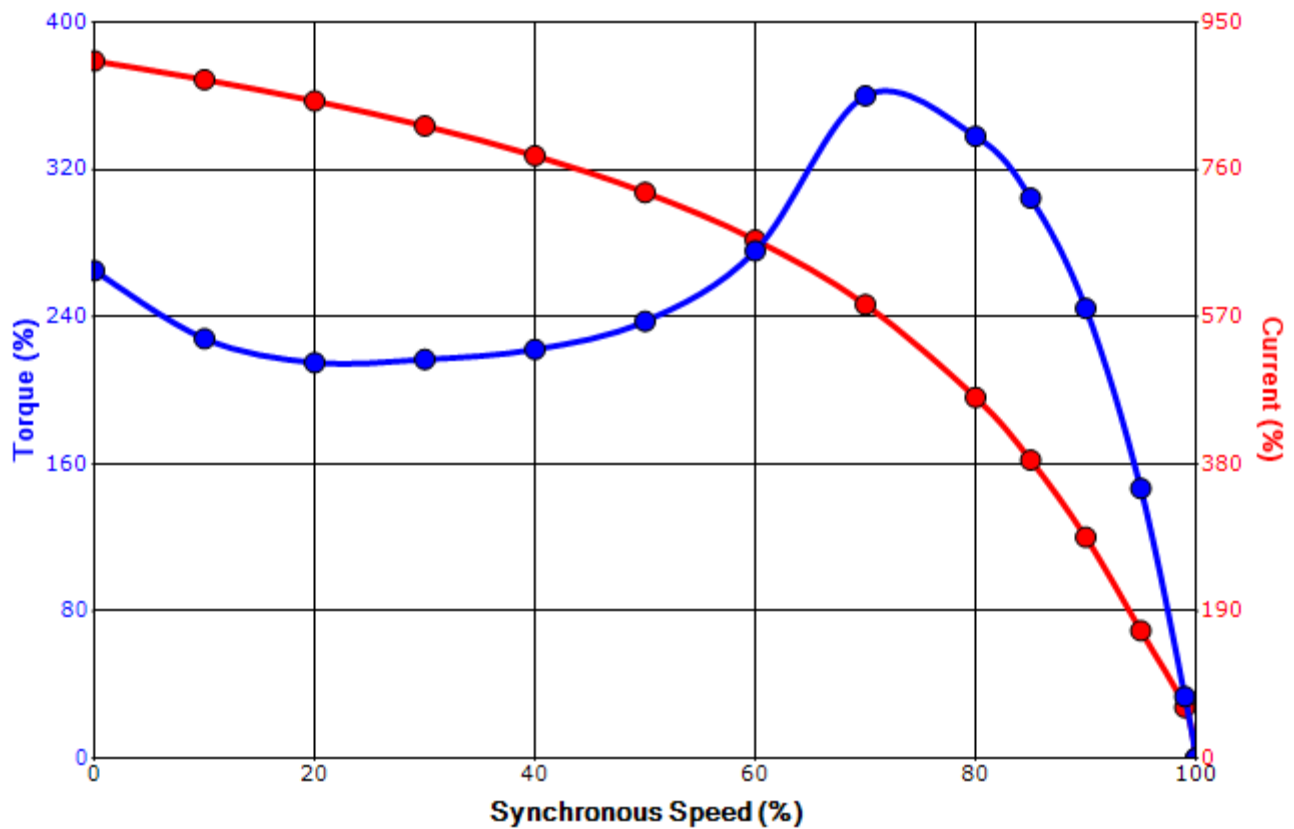
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SPEED TORQUE/CURRENT CURVE

Model: Y152SDSR47A-P

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|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
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| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 84 | B | L | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 18 | 0.05 | 2.26 | 265 | | 225 | 360 | | |

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 | mcampbell | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 2/27/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



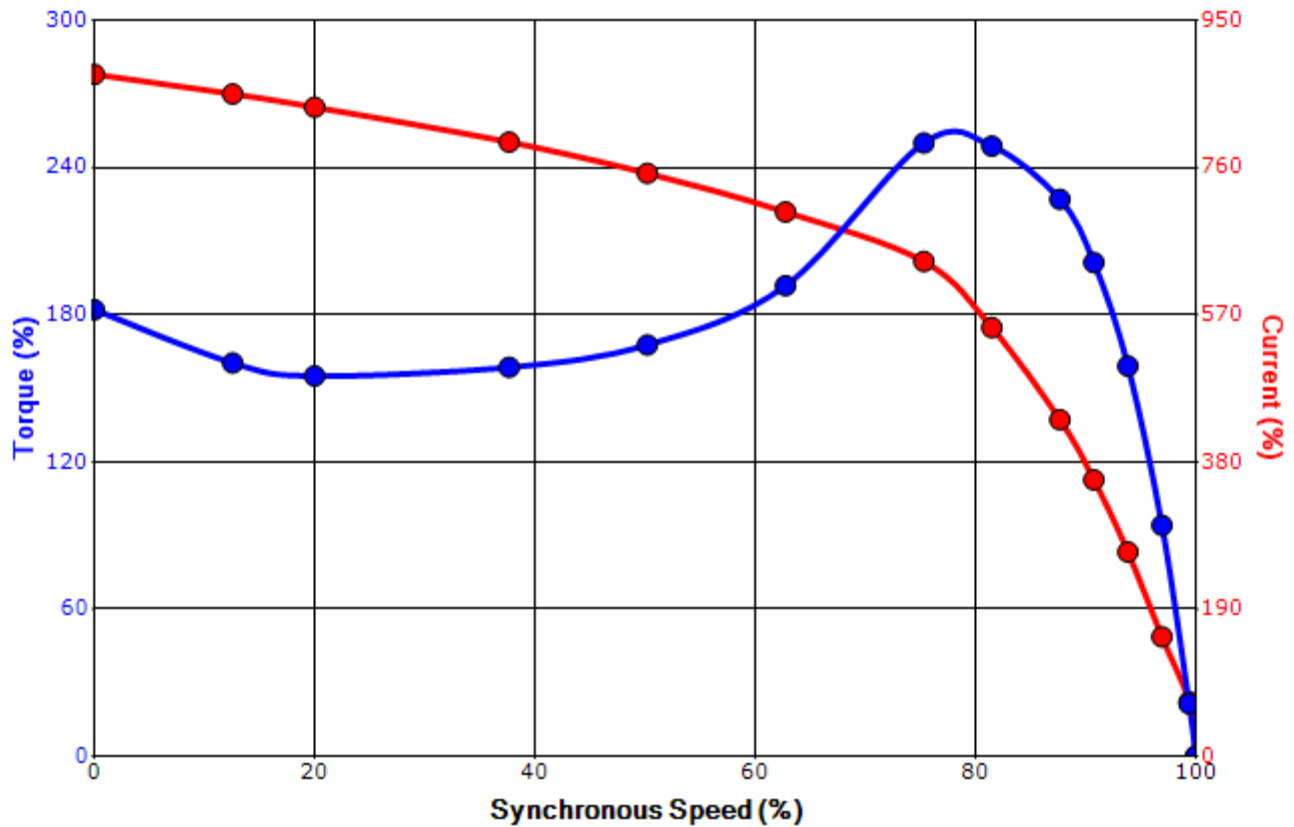
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| 22 | 0.05 | 2.76 | 180 | 170 | 250 | | | |

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.

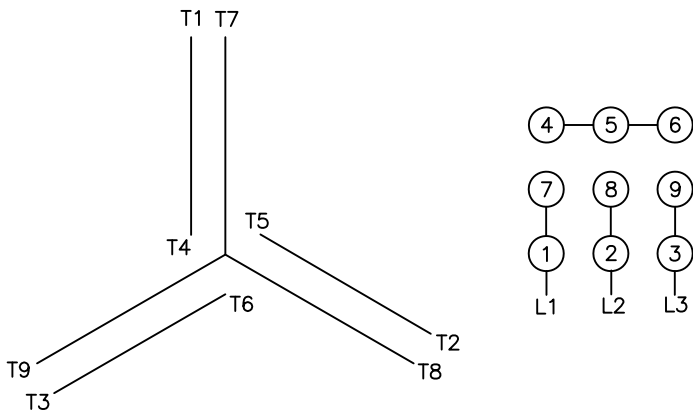
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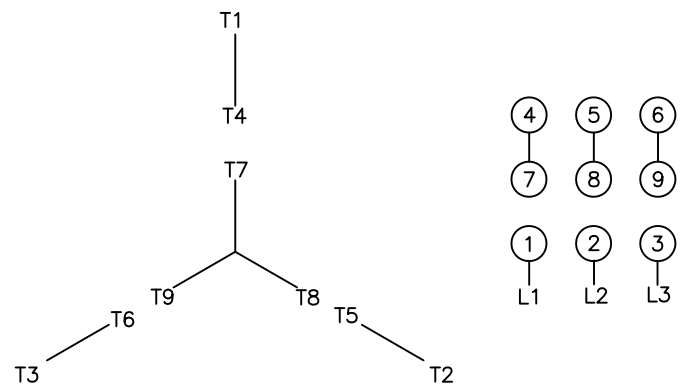
Motor Connection Diagrams 9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation