

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)

0.625" x 0.625" x 4.25"

UNITS: INCHES

| BEARINGS | | APPROX. WEIGHT |
|----------|----------|----------------|
| LS | OS | |
| 6314ZZC3 | 6312ZZC3 | 893 lbs |

CUSTOMER: _____ MOTOR MODEL NO.: _____
 P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ HZ: _____
 FRAME SIZE: 360T PRODUCT TYPE: COOLING TOWER
 COMMENTS: _____

PER: _____ DATE: _____

TAG NUMBERS

STANDARD (NO AUX. BOXES)
 RTD AUX. BOX
 SPACE HEATER AUX. BOX
 BEARING RTD's

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



MDSL503-07
 TOTALLY ENCLOSED FAN COOLED
 3 PHASE INDUCTION MOTOR
 F1 ASSEMBLY





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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0506SDGR41A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|----|------------|--------|-------|----------------|-------------|----------|--------------|
| 50 | 37 | 6 | 1180 | 365T | 230/460 | 60 | 3 | 120/60 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 94.1 | B | G | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|------|---------|----------------|------------------|
| Full Load | 50 | 37.3 | 60.0 | 94.1 | 85.2 |
| ¾ Load | 37.50 | 28.0 | 45.7 | 94.0 | 82.4 |
| ½ Load | 25.00 | 18.6 | 33.9 | 93.2 | 75.2 |
| ¼ Load | 12.50 | 9.3 | 24.7 | 89.2 | 53.0 |
| No Load | | | 18.2 | | 4.2 |
| Locked Rotor | | | 360 | | 36.3 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 223 | 185 | 165 | 250 | 20.06 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|-----|------------------------------|-----------|----------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 35 | 15 | - | 6314ZZC3 | 6312ZZC3 | |

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

Motor Options:
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
| Engr. Date | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |



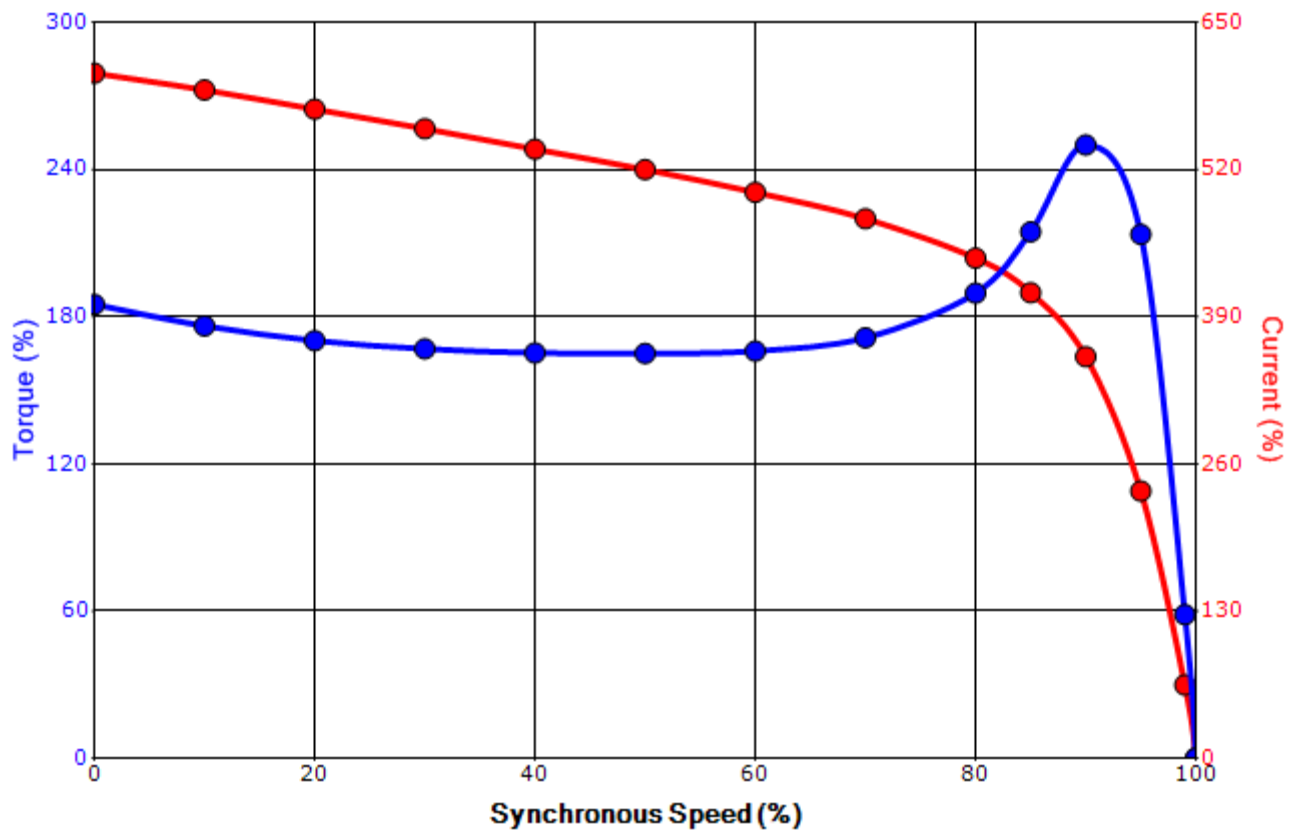
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|-------------|-----------|------------|--|
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SPEED TORQUE/CURRENT CURVE

Model: 0506SDGR41A-P

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------|----------------|-------------|----------------|--------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 50 | 37 | 6 | 1180 | 365T | 230/460 | 60 | 3 | 120/60 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 56 | F | 1.15 | CONT | 94.1 | B | G | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 360 | 20.06 | 223 | 185 | | 165 | 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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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|-------------|
| Engineering | aacosta | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 4/19/2012 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

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.