

TECHNICAL INFORMATION

- BEARING LUBRICATION DE: TURBINE OIL ISO VG32
ODE: TURBINE OIL ISO VG32
- BEARING TYPE DE: M9-90-INS
ODE: M9-90-INS
- WINDING TEMP. DETECTORS
NUMBER AND TYPE: 6xRTD(PtO°C-100ohm)
LOCATION: IN STATOR SLOT
- BEARING TEMP. DETECTORS
NUMBER AND TYPE: _____
- SPACE HEATER 1 PHASE
VOLTS: 120 WATTS: 400
- ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS UNI DIRECTIONAL
- MOTOR PAINT COLOR: _____
- APPROX. WEIGHT: 5100 Lbs
- ACCESORIES: _____

| DRAWING LIST | | | | |
|----------------------|-----|-------------|----|--------|
| MAIN TERMINAL BOX | | | | |
| AUX TERMINAL BOX FOR | | | | |
| SPACE HEATER | | | | |
| R.T.D. | | | | |
| THERMISTOR | | | | |
| | 0 | FIRST ISSUE | TZ | 3/8/05 |
| PRODUCTION # | NO. | REVISION | BY | DATE |

| MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR | | | | | | |
|--|--------------|-------------|--------------|----------------------|-------------------|-----------|
| CUSTOMER NAME | | | P.O. NO. | | MOTOR TAG NO. | |
| OUTPUT HP | POLE | VOLTAGE | FREQUENCY | FULL LOAD SPEED | TOSHIBA MODEL NO. | |
| | 2 | 2300/4000 V | 60 Hz | (min ⁻¹) | | |
| TYPE | FORM | INS. CLASS | RATING | FRAME | S.F. | ENCLOSURE |
| | | F | CONT. | 5011/12 | 1.15 | WP-II |
| TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A. | | | | | | |
| 3rd ANGLE PROJ. | PREPARED BY: | DATE: | CHECKED BY: | DATE: | DRAWING NO.: | REV. |
| | T. ZIEBRO | 3/8/05 | <i>Yntlo</i> | <i>Yntlo</i> | MDSL0087-07 | 0 |

TYPICAL MOTOR PERFORMANCE DATA

Model: 4503WTQK11F-C

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|---------|----------------|-------------|----------|--------------|
| 450 | 336 | 2 | 3576 | 5012USS | 4000 | 60 | 3 | 60 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| WP-II | 24 | F | 1.15 | CONT | 93.7 | B | F | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|--------|-------|---------|----------------|------------------|
| Full Load | 450 | 335.6 | 59.7 | 93.7 | 86.6 |
| ¾ Load | 337.50 | 251.7 | 46.6 | 93.3 | 83.5 |
| ½ Load | 225.00 | 167.8 | 34.6 | 92.0 | 76.0 |
| ¼ Load | 112.50 | 83.9 | 25.0 | 87.7 | 55.2 |
| No Load | | | 15.7 | | 9.4 |
| Locked Rotor | | | 345.80 | | 19.4 |

| Torque | | | | Rotor wk ² Inertia (lb-ft ²) |
|----------------------|-------------------------|--------------------|-----------------------|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 661 | 90 | 95 | 275 | 92.35 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|--------------------|------|------------------------------|-----------|-----------|-------------------------------|
| Cold | Hot | | DE | NDE | |
| 31.1 | 21.6 | - | M9-90 INS | M9-90 INS | |

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

Motor Options:
Product Family:WP-II
Mounting:Footed,Shaft:USS Shaft

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

Tag:

All characteristics are average expected values.

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| | | | | | |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date | 7/14/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |

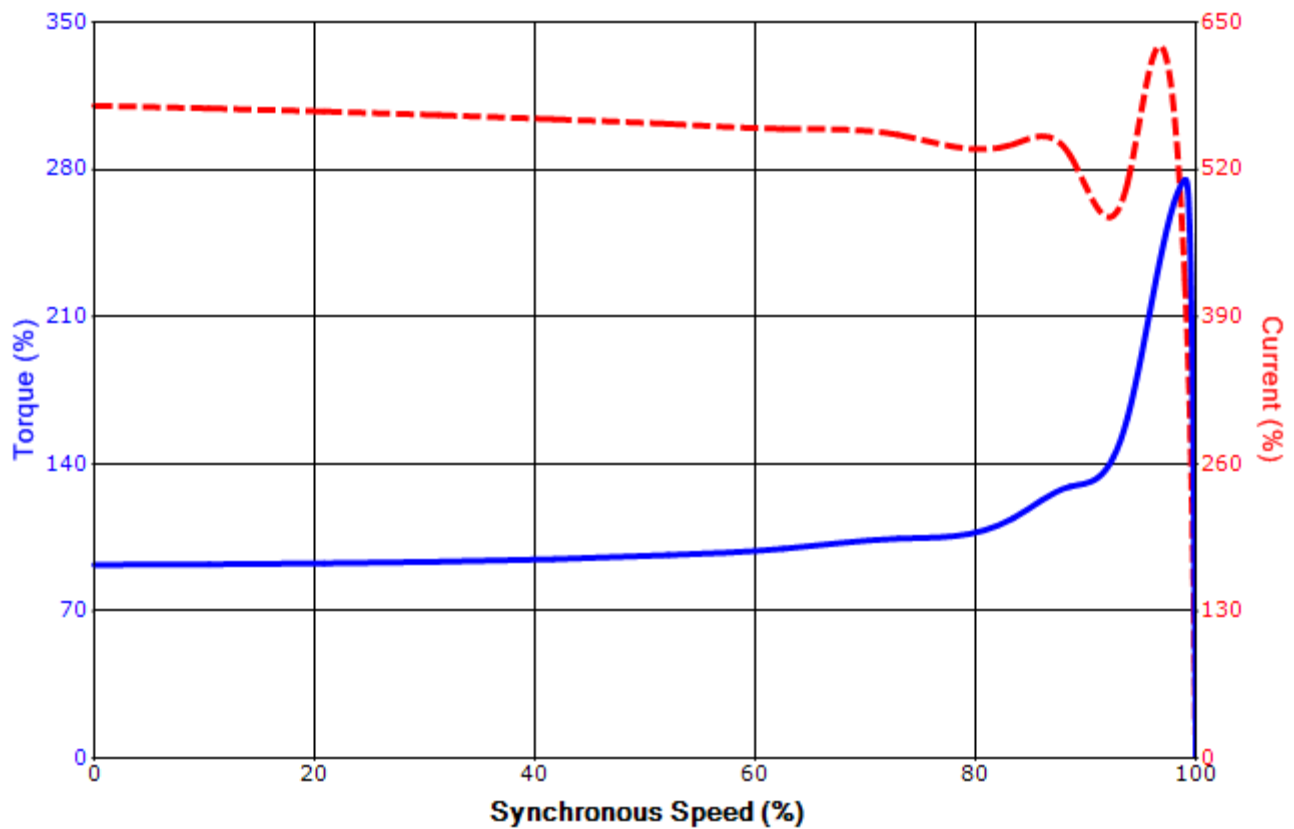
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|-------------|-----------|------------|--|
| Issued Date | 4/23/2015 | Transmit # | |
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: 4503WTQK11F-C

| | | | | | | | | |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 450 | 336 | 2 | 3576 | 5012USS | 4000 | 60 | 3 | 60 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| WP-II | 24 | F | 1.15 | CONT | 93.7 | B | F | 40 C |
| Locked Rotor Amps | Rotor wk ² Inertia (lb-ft ²) | Torque | | | | | | Break Down (%) |
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | | | | |
| 345.80 | 92.35 | 661 | 90 | 95 | | | 275 | |

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 | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 |
| Engr. Date | 7/14/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 |