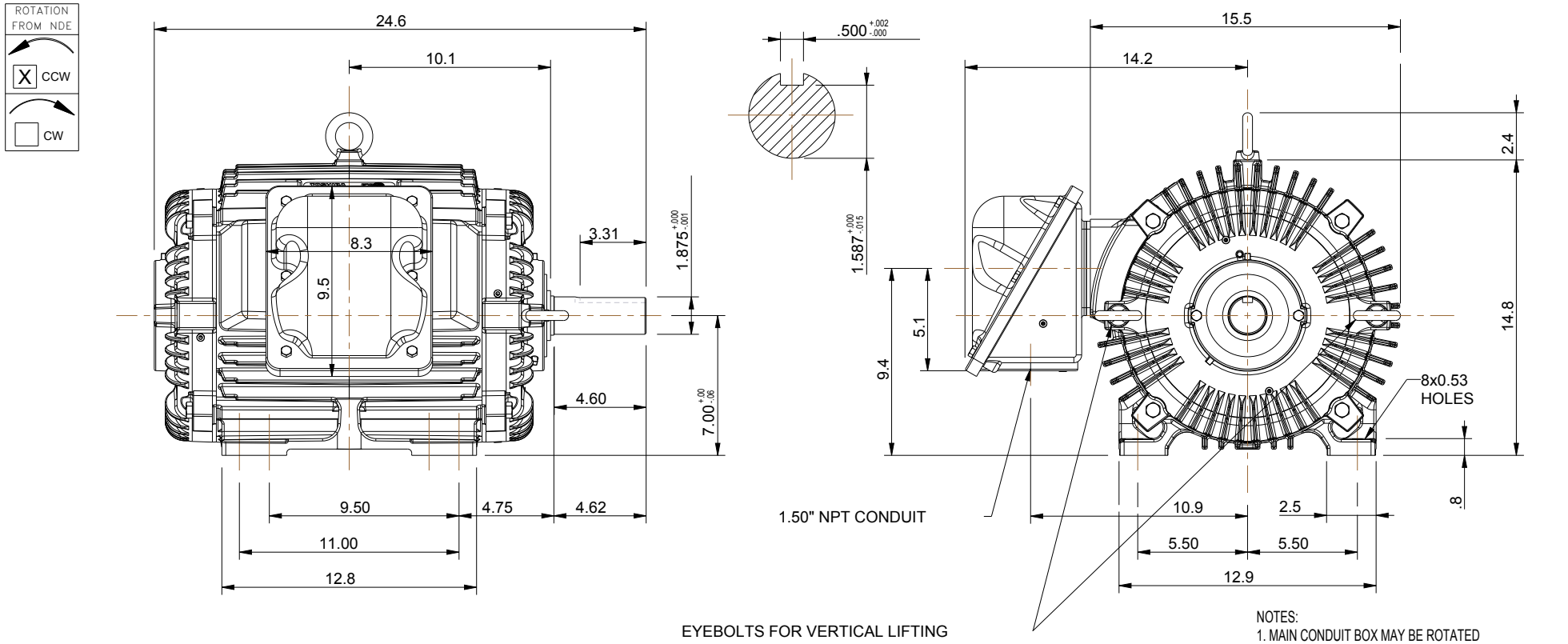



NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90 INCREMENTS
2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY) 0.500" x 0.500" x 3.25"

UNITS: INCHES

| BEARINGS | | APPROX. WEIGHT |
|---|---|---|
| LS | OS | |
| 6310ZZC3 | 6310ZZC3 | 448 lbs |

CUSTOMER: _____ MOTOR MODEL NO.: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ HZ: _____

FRAME SIZE: 280T PRODUCT TYPE: COOLING TOWER

COMMENTS: _____

PER: DATE:

TAG NUMBERS

| | |
|---|---|
| | |
| | |
| | |
| | |
| | |

- [X] 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

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

- [X] PRELIMINARY
- [ ] CERTIFIED

**TOSHIBA**

**TOSHIBA INTERNATIONAL CORPORATION**

MDSLV505-05
TOTALLY ENCLOSED AIR OVER
3 PHASE INDUCTION MOTOR
F1 ASSEMBLY

SEVERE DUTY EQP Global CT

**XT SERIES**

www.toshiba.com/ind

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

TOSHIBA

# TYPICAL MOTOR PERFORMANCE DATA

**Model:** 0156FAGR41A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 15 | 11 | 6 | 1175 | 284T | 230/460 | 60 | 3 | 40/19.8 |
| **Enclosure** | **IP** | **Ins. Class** | **S.F.** | **Duty** | **NEMA Nom. Eff.** | **NEMA Design** | **kVA Code** | **Ambient (°C)** |
| TEAO | 56 | F | 1.15 | CONT | 91.7 | B | G | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| **Full Load** | 15 | 11.2 | 19.8 | 91.1 | 77.8 |
| **¾ Load** | 11.25 | 8.4 | 16.1 | 90.7 | 71.7 |
| **½ Load** | 7.50 | 5.6 | 13.1 | 88.8 | 60.1 |
| **¼ Load** | 3.75 | 2.8 | 11.1 | 81.6 | 38.7 |
| **No Load** | | | 9.2 | | 5.7 |
| **Locked Rotor** | | | 116 | | 46.8 |

| Torque | | | | Rotor wk² Inertia |
|---|---|---|---|---|
| **Full Load (lb-ft)** | **Locked Rotor (% FLT)** | **Pull Up (% FLT)** | **Break Down (% FLT)** | **(lb-ft²)** |
| 67 | 240 | 215 | 260 | 4.68 |

| Safe Stall Time(s) | | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight |
|---|---|---|---|---|---|
| **Cold** | **Hot** | | **DE** | **NDE** | **(lbs)** |
| 30 | 22 | - | 6310ZZC3 | 6310ZZC3 | |

*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.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 1 |
|---|---|---|---|---|---|
| Engr. Date | 10/3/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

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

TOSHIBA

# SPEED TORQUE/CURRENT CURVE

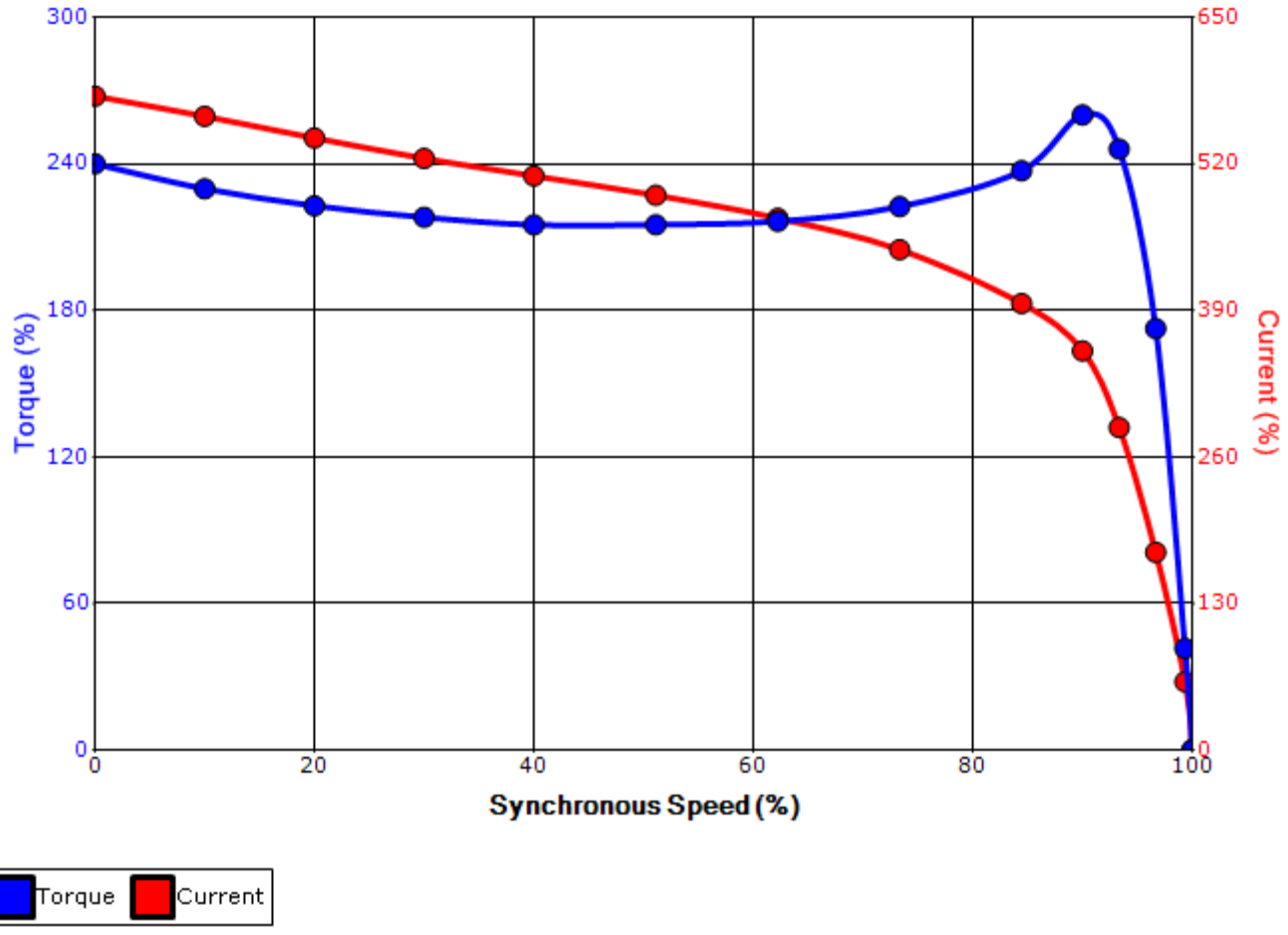
**Model:** 0156FAGR41A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 15 | 11 | 6 | 1175 | 284T | 230/460 | 60 | 3 | 40/19.8 |

| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
|---|---|---|---|---|---|---|---|---|
| TEAO | 56 | F | 1.15 | CONT | 91.7 | B | G | 40 C |

| Locked Rotor Amps | Rotor wk² Inertia (lb-ft²) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 116 | 4.68 | 67 | 240 | 215 | 260 |

## Design Values




| | | | | | |
|---|---|---|---|---|---|
| Customer | | | wk² Load Inertia (lb-ft²) | - |
| Customer PO | | | Load Type | - |
| Sales Order | | | Voltage (%) | 100 |
| Project # | | | Accel. Time | - |

**Tag:**

All characteristics are average expected values.

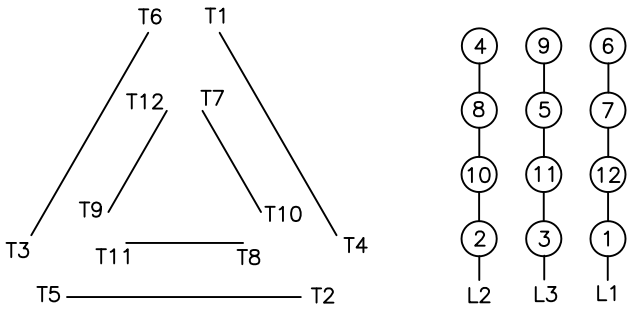
**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

| | | | | | |
|---|---|---|---|---|---|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121/1 |
| Engr. Date | 10/3/2018 | Doc. Approved By | M. Campbell | Doc. Issued | 9/20/2019 |

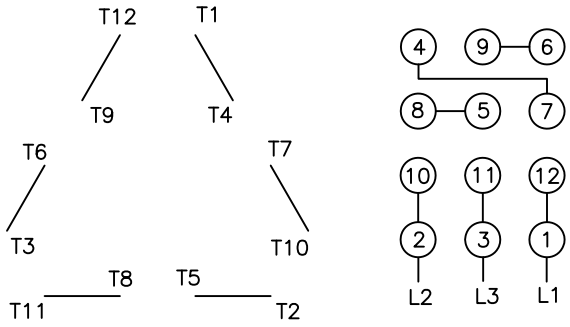
# Motor Connection Diagrams
## 12 Leads

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.