

Unit:Metric [ ] reference dimension

UNITS: INCHES  
 ROTATION FROM NDE  
 CCW  CW

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

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 0.375"X0.375"X2.875" (MOTOR SUPPLIED WITH KEY)

DD NDT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  PRELIMINARY  CERTIFIED

TOTALLY ENCLOSED FAN COOLED



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 TOSHIBA INTERNATIONAL CORPORATION

HORIZONTAL FOOT MOUNT  
 3 PHASE INDUCTION MOTOR  
 254T-256T F1 ASSEMBLY

DRAWING #: MDSL V118-01  
 REV. DATE: 05/22/19 REV. #: 00 PER: L.LIAN  
 REV. DESCRIP: FIRST ISSUE

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 0106QDAC41A-P

|           |     |            |        |       |                |             |          |              |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 10        | 7.5 | 6          | 1170   | 256T  | 575            | 60          | 3        | 10.0         |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55  | F          | 1.25   | CONT  | 91.0           | A           |          | 40 C         |

|              |       |     |         |                |                  |
|--------------|-------|-----|---------|----------------|------------------|
| Load         | HP    | kW  | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 10.00 | 7.5 | 10.0    | 91.2           | 82.4             |
| ¾ Load       | 7.50  | 5.6 | 7.9     | 91.0           | 78.0             |
| ½ Load       | 5.00  | 3.7 | 6.1     | 89.4           | 68.1             |
| ¼ Load       | 2.50  | 1.9 | 4.9     | 82.6           | 46.3             |
| No Load      |       |     | 3.9     |                | 5.9              |
| Locked Rotor |       |     | 69      |                | 41.2             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque            |                      |                 |                    | Rotor wk <sup>2</sup>         |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft <sup>2</sup> ) |
| 44.9              | 250                  | 245             | 275                | 2.65                          |

|                    |     |                           |           |          |                            |
|--------------------|-----|---------------------------|-----------|----------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |          | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE        | NDE      |                            |
| 35                 | 15  |                           | 6309ZZC3  | 6309ZZC3 |                            |

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

**Motor Options:**  
Mounting:Footed,Shaft:T Shaft  
Motor Specification:Quarry Duty

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

Tag:

All characteristics are average expected values.

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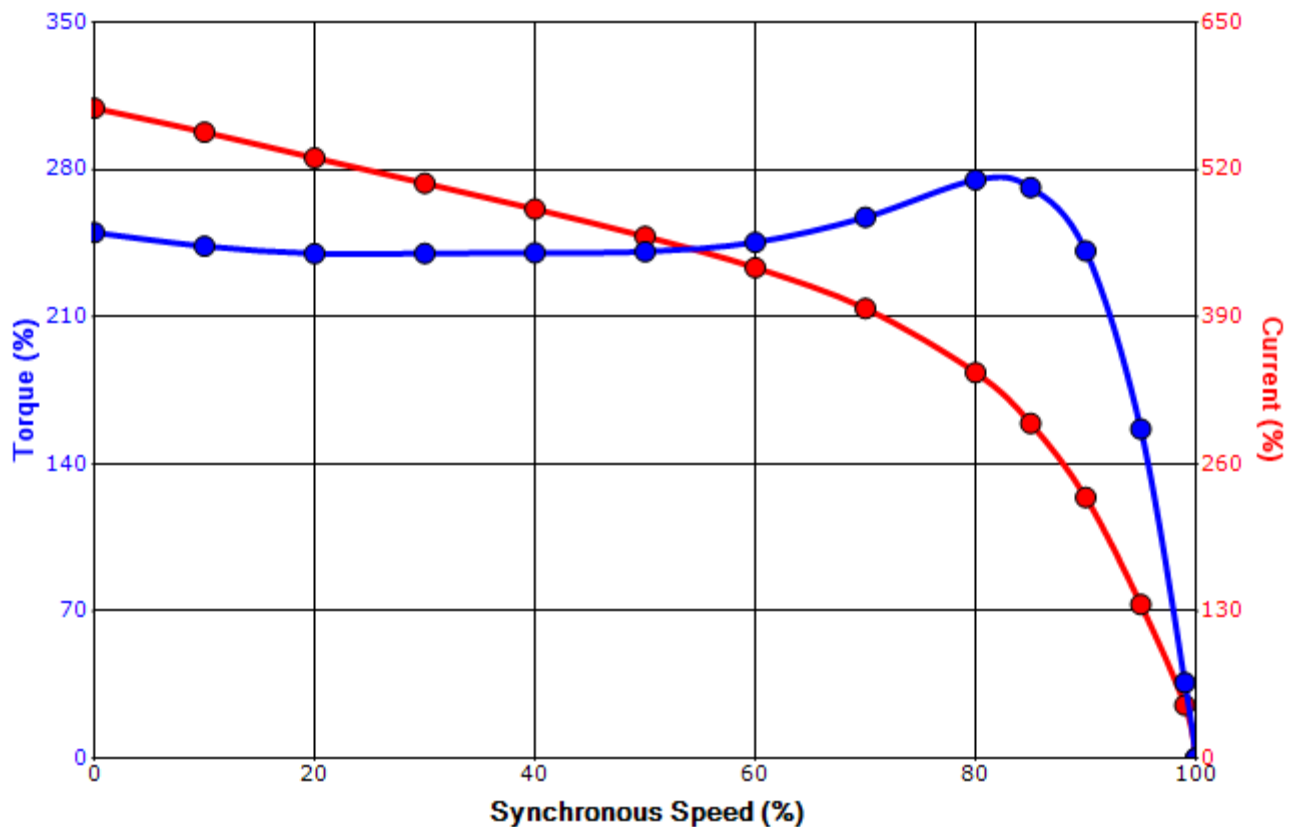
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bammen    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 1/15/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: 0106QDAC41A-P

|                   |   |                   |                  |             |                |             |          |              |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|--------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps      |
| 10                | 7.5   | 6                 | 1170             | 256T        | 575            | 60          | 3        | 10.0         |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC              | 55  | F                 | 1.25             | CONT        | 91.0           | A           |          | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          |              |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |             |          |              |
| 69                | 2.65  | 44.9              | 250              | 245         | 275            |             |          |              |

**Design Values**



|             |  |  |     |
|-------------|--|--|-----|
| Customer    |  | wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> ) | -   |
| 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  | 1/15/2021 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**Motor Connection Diagram**  
3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one  
of them will be labeled with the appropriate lead number.