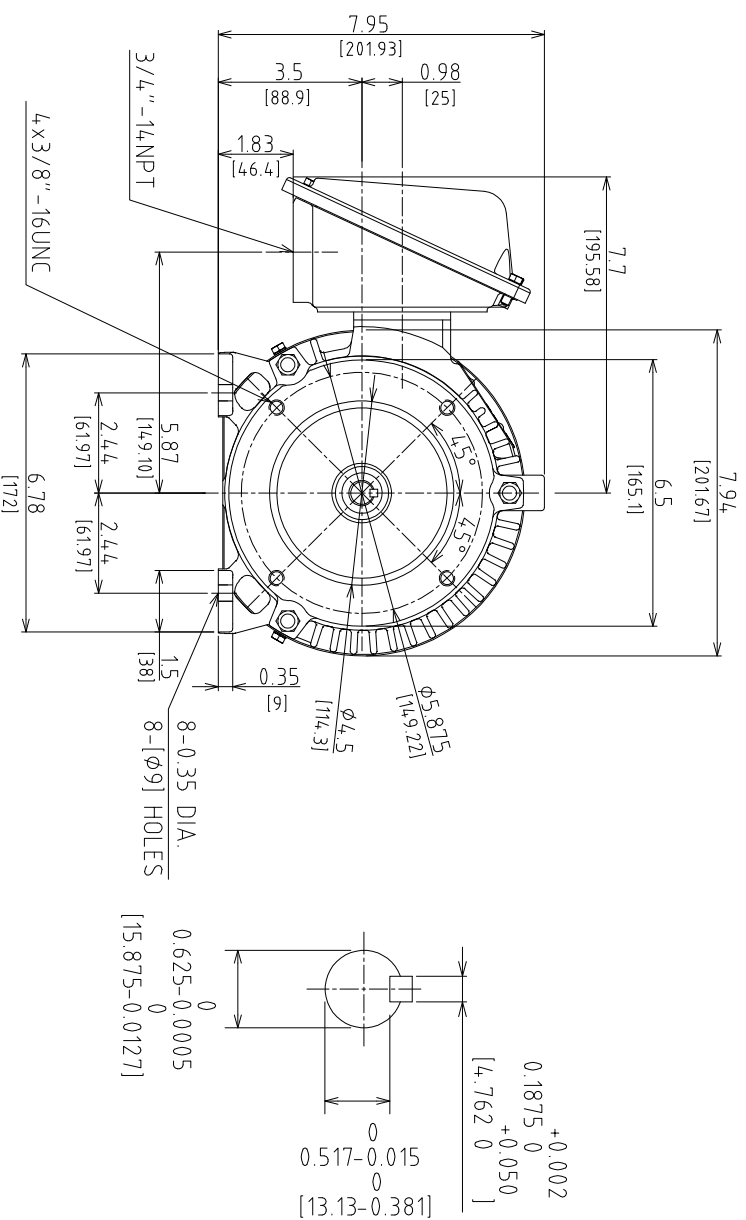
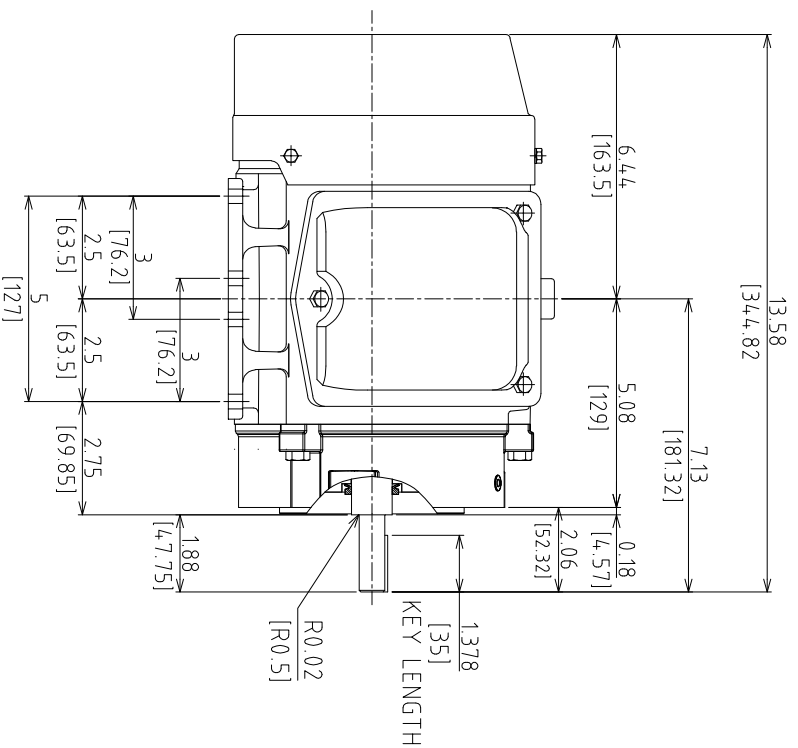




UNITS: INCHES

ROTATION FROM ODE

|   |     |    |
|---|-----|----|
| X | CCW | CW |
|---|-----|----|

|   |     |    |
|---|-----|----|
| X | CCW | CW |
|---|-----|----|

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|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> PRELIMINARY | <input checked="" type="checkbox"/> CERTIFIED |
|--------------------------------------|-----------------------------------------------|

X CERTIFIED

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TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED

FOOTED C-FACED

### 3 PHASE INDUCTION MOTOR

56C-56HC

# F1 ASSEMBLY

DRAWING #: 3HFN000617/MDSL V125-02

REV. DATE: 02/14/20 REV. #: 1 PER: -

| REV. | DESCRIP: | Remove KEY dimensions |
|------|----------|-----------------------|
|      |          |                       |

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 0.875"x0.875"x1.378" (MOTOR SUPPLIED WITH KEY)

PRELIMINARY

## TYPICAL MOTOR PERFORMANCE DATA

Model: 0024SDSC42H-P

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 2         | 1.5 | 4          | 1750   | 56C   | 575            | 60          | 3        | 2.3          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 55  | F          | 1.15   | CONT  | 86.5           | B           |          | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 2.00 | 1.5 | 2.3     | 87.0           | 74.9             |
| ¾ Load       | 1.50 | 1.1 | 1.9     | 86.6           | 68.4             |
| ½ Load       | 1.00 | 0.7 | 1.5     | 83.9           | 56.4             |
| ¼ Load       | 0.50 | 0.4 | 1.1     | 76.6           | 41.6             |
| No Load      |      |     | 1.3     |                |                  |
| Locked Rotor |      |     | 17.3    |                |                  |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 6.00              | 260                  | 195             | 350                | 0.15                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  |                           | 6305ZZ    | 6305ZZ | 58                         |

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

**Motor Options:**  
Mounting:C-Face Footed,Shaft:56

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

Tag:

All characteristics are average expected values.

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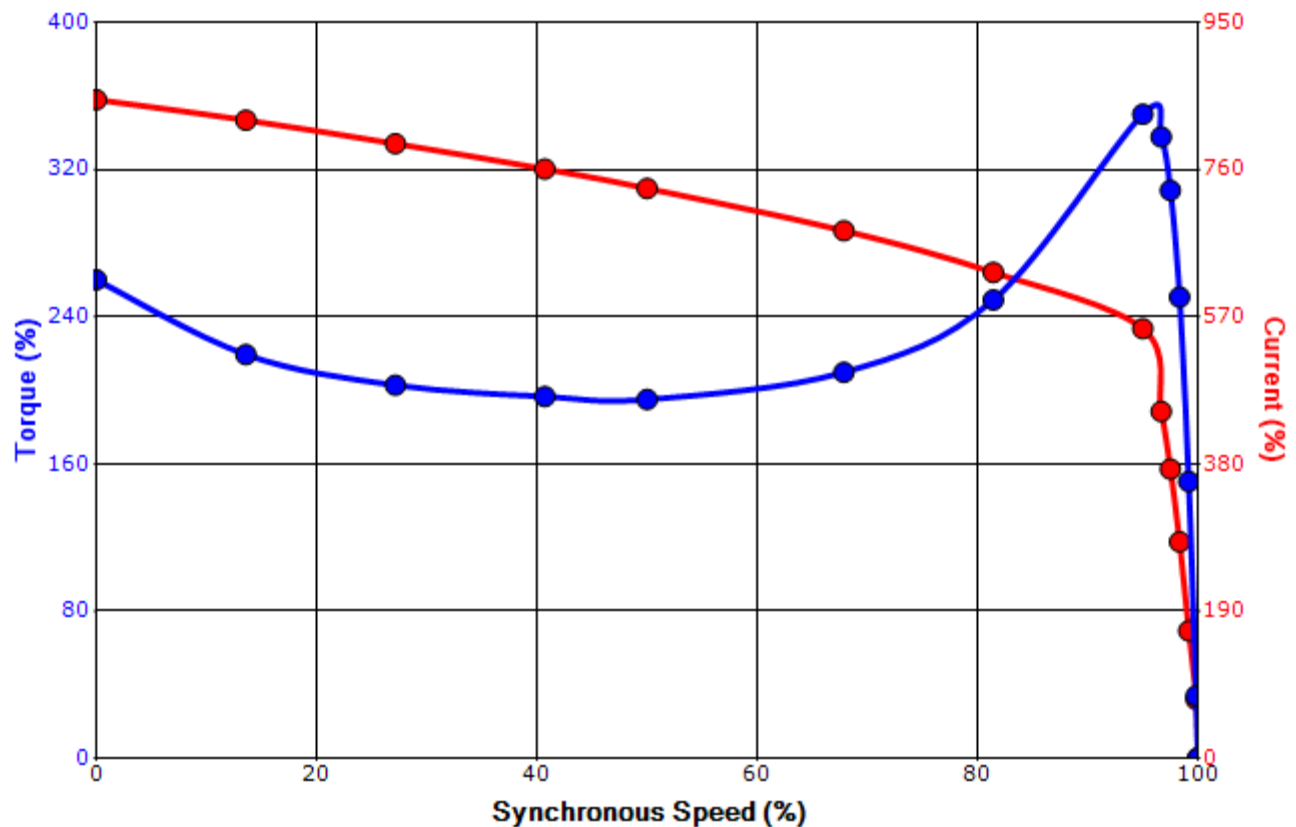
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bammen    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/24/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: 0024SDSC42H-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 2                 | 1.5                                                 | 4                 | 1750             | 56C         | 575            | 60             | 3        | 2.3          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 55                                                  | F                 | 1.15             | CONT        | 86.5           | B              |          | 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 (%) |          |              |
| 17.3              | 0.15                                                | 6.00              | 260              | 195         |                | 350            |          |              |

### 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  | 7/24/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

# Motor Connection Diagram

## 3 Leads - Wye Connection

### Single Voltage



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.