

UNITS: INCHES ROTATION FROM NDE X CCW CW

- 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

0.312"x 0.312"x 2.38"

(MOTOR SUPPLIED WITH KEY)

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

X CERTIFIED



TOTALLY ENCLOSED FAN COOLED FOOTED C-FACED (NEMA BA) 3 PHASE INDUCTION MOTOR 213TC-215TC F1 ASSEMBLY

| DRAWING #: | MDSLV005-0 | 03 | | | |
|----------------|------------|---------|---|-----------------|--|
| REV. DATE: | 06/27/18 | REV. #: | 3 | PER.: M. O'DOWD | |
| REV. DESCRIP.: | | | | | |
| | | | | | |



| Issued Date | 6/19/2025 | Transmit # | |
|-------------|-----------|------------|--|
| Issued By | dschoeck | Issued Rev | |

TYPICAL MOTOR PERFORMANCE DATA

Model: 0104SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 10 | 7.5 | 4 | 1770 | 215TC | 230/460 | 60 | 3 | 26.4/13.2 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 91.7 | В | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|-----|---------|----------------|------------------|
| Full Load | 10.00 | 7.5 | 13.2 | 91.9 | 77.0 |
| ¾ Load | 7.50 | 5.6 | 10.8 | 90.9 | 71.5 |
| ½ Load | 5.00 | 3.7 | 8.6 | 88.4 | 61.4 |
| ¼ Load | 2.50 | 1.9 | 5.8 | 82.0 | 48.9 |
| No Load | | | 6.8 | | 5.0 |
| Locked Rotor | | | 87 | | 43.7 |

| Torque | | | | | | |
|-----------|--------------|---------|------------|----------|--|--|
| Full Load | Locked Rotor | Pull Up | Break Down | Inertia | | |
| (lb-ft) | (% FLT) | (% FLT) | (% FLT) | (lb-ft²) | | |
| 29.7 | 305 | 225 | 350 | 1.33 | | |

| Safe Stall | Time(s) | Sound | Bearin | une* | Approx. Motor Weight | |
|------------|---------|------------|----------|----------|----------------------|--|
| Cold | Hot | Pressure | re | | | |
| 00.0 | 1101 | dB(A) @ 1M | DE | NDE | (lbs) | |
| 35 | 15 | - | 6308ZZC3 | 6308ZZC3 | 207 | |

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

Motor Options: Product Family:EQP Global SD CFace Footed Mounting:C-Face Footed,Shaft:T Shaft

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

Tag:

| TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A. | | | | | | | |
|---|----------|------------------|-------------|-------------|---------------|--|--|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1119 / 0 | | |
| Engr. Date | 5/5/2025 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 | | |



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TYPICAL MOTOR PERFORMANCE DATA

Model: 0104SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 10 | 7.5 | 4 | 1455 | 215TC | 190/380 | 50 | 3 | 31.2/15.6 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.0 | CONT | 89.5 | В | | 40 C |

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|-----|---------|----------------|------------------|
| Full Load | 10.00 | 7.5 | 15.6 | 89.9 | 80.8 |
| ¾ Load | 7.50 | 5.6 | 12.3 | 89.9 | 76.9 |
| ½ Load | 5.00 | 3.7 | 9.4 | 88.3 | 68.0 |
| ¼ Load | 2.50 | 1.9 | 6.3 | 82.7 | 53.9 |
| No Load | | | 6.9 | | 4.7 |
| Locked Rotor | | | 86 | | 39.7 |

| Torque | | | | | | |
|-----------|--------------|---------|------------|----------|--|--|
| Full Load | Locked Rotor | Pull Up | Break Down | Inertia | | |
| (lb-ft) | (% FLT) | (% FLT) | (% FLT) | (lb-ft²) | | |
| 36.1 | 200 | 155 | 275 | 1.33 | | |

| Safe Stall Time(s) | | Sound Bearings* | | une* | Approx. Motor Weight | |
|--------------------|------|-----------------|----------|-------------------|----------------------|--|
| Cold | Hot | Pressure | | | 1 | |
| 00.0 | 1101 | dB(A) @ 1M | DE | NDE | (lbs) | |
| 35 | 15 | - | 6308ZZC3 | 6308ZZC3 6308ZZC3 | | |

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

Motor Options: Product Family:EQP Global SD CFace Footed Mounting:C-Face Footed,Shaft:T Shaft

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| Engr. Date | 5/5/2025 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 | | |



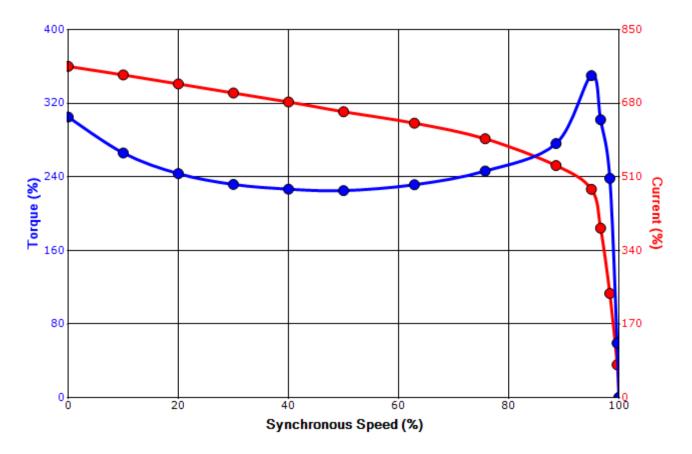
| Issued Date | 6/19/2025 | Transmit # | |
|-------------|-----------|------------|--|
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: 0104SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|----------------------|-----------------------|------------|--------|------------|-------------------|----------------|----------|-----------------|
| 10 | 7.5 | 4 | 1770 | 215TC | 230/460 | 60 | 3 | 26.4/13.2 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 91.7 | В | | 40 C |
| Looked Bates | Rotor wk ² | | | | Torque | | | |
| Locked Rotor Amps | Inertia | Full Load | Locked | Rotor | Pull Up |) | Break | Down |
| Amps | (lb-ft²) | (lb-ft) | (% | 6) | (%) | | (% | %) |
| 87 | 1.33 | 29.7 | 30 | 5 | 225 | | 35 | 50 |

Design Values





| Customer | wk² Load Inertia (Ib-f | 2) - | | |
|-------------|------------------------|--------|--|--|
| Customer PO | Load Typ | е - | | |
| Sales Order | Voltage (% | 6) 100 | | |
| Project # | Accel. Tim | е - | | |

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| TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A. | | | | | | | |
|---|----------|------------------|-------------|-------------|---------------|--|--|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 | | |
| Engr. Date | 5/5/2025 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 | | |



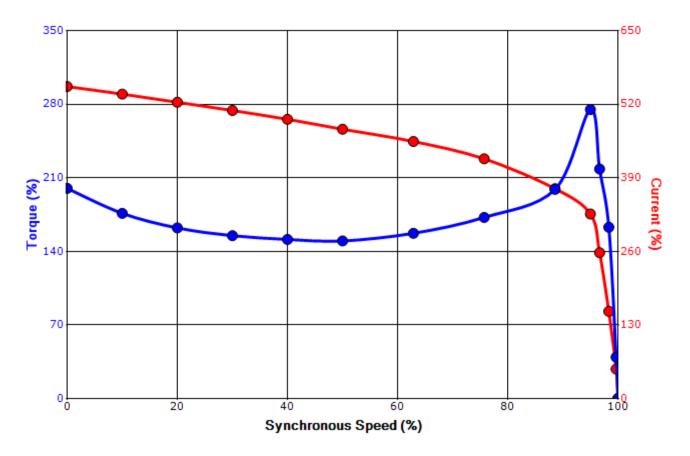
| Issued Date | 6/19/2025 | Transmit # | |
|-------------|-----------|------------|--|
| Issued By | dschoeck | Issued Rev | |

SPEED TORQUE/CURRENT CURVE

Model: 0104SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|--------------|-----------------------|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 10 | 7.5 | 4 | 1455 | 215TC | 190/380 | 50 | 3 | 31.2/15.6 |
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| TEFC | 55 | F | 1.0 | CONT | 89.5 | В | | 40 C |
| Locked Rotor | Rotor wk ² | | | | Torque | | | |
| Amps | Inertia | Full Load | Locked | Rotor | Pull Up |) | Break | Down |
| Allips | (lb-ft²) | (lb-ft) | (% | (%) | | | (% | 6) |
| 86 | 1.33 | 36.1 | 20 | 0 | 155 | | 27 | 75 |

Design Values





| Customer | wk² Load Inertia (Ib-f | 2) - | | |
|-------------|------------------------|--------|--|--|
| Customer PO | Load Typ | е - | | |
| Sales Order | Voltage (% | 6) 100 | | |
| Project # | Accel. Tim | е - | | |

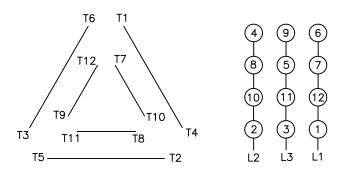
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|---|----------|------------------|-------------|-------------|---------------|--|--|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1121 / 0 | | |
| Engr. Date | 5/5/2025 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 | | |

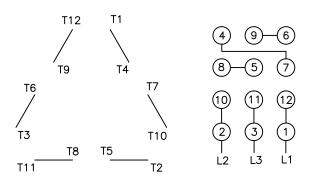
Motor Connection Diagrams 12 Leads

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.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 1



| Issued Date: | 6/19/2025 | Transmit #: | |
|--------------|-----------|-------------|--|
| Issued By: | dschoeck | Issued Rev: | |

SPARE PARTS LIST*

Model: 0104SDSR47A-P

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-----|------------|--------|-------|-------------------|----------------|----------|-----------------|
| 10 | 7.5 | 4 | 1770 | 215TC | 230/460 | 60 | 3 | 26.4/13.2 |
| Enclosure | IP | Ins. Class | S.F. | Duty | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC | 55 | F | 1.15 | CONT | 91.7 | В | | 40 C |

 Bearings DE
 6308ZZC3 / 40BC03JPP3OX

 Bearings NDE
 6308ZZC3 / 40BC03JPP3OX

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

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

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

Tag:

| TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A. | | | | | | | | | | |
|---|----------|------------------|-------------|-------------|---------------|--|--|--|--|--|
| Engineering | bmammen | Doc. Written By | D. Suarez | Doc.# / Rev | MPCF-1125 / 0 | | | | | |
| Engr. Date | 5/5/2025 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011 | | | | | |