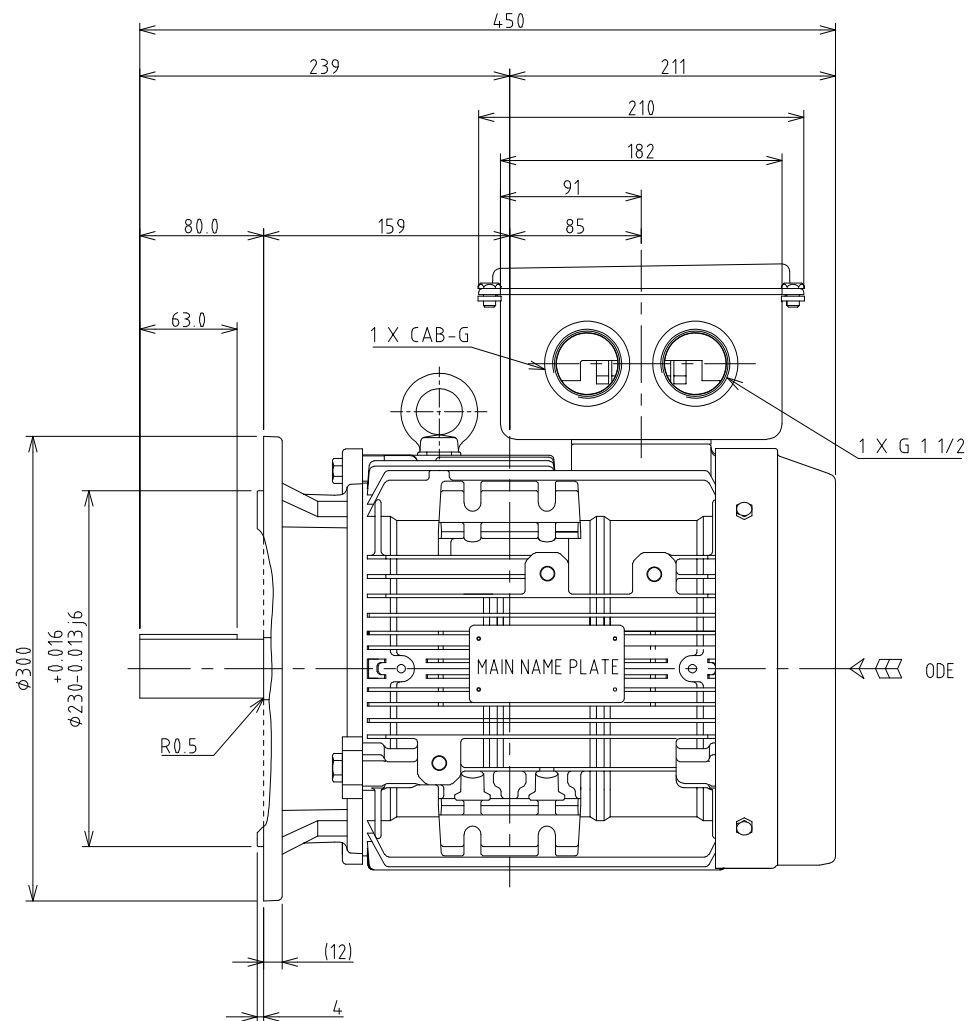
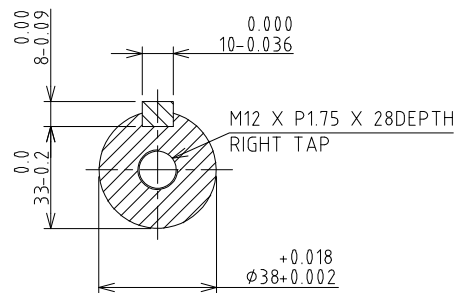
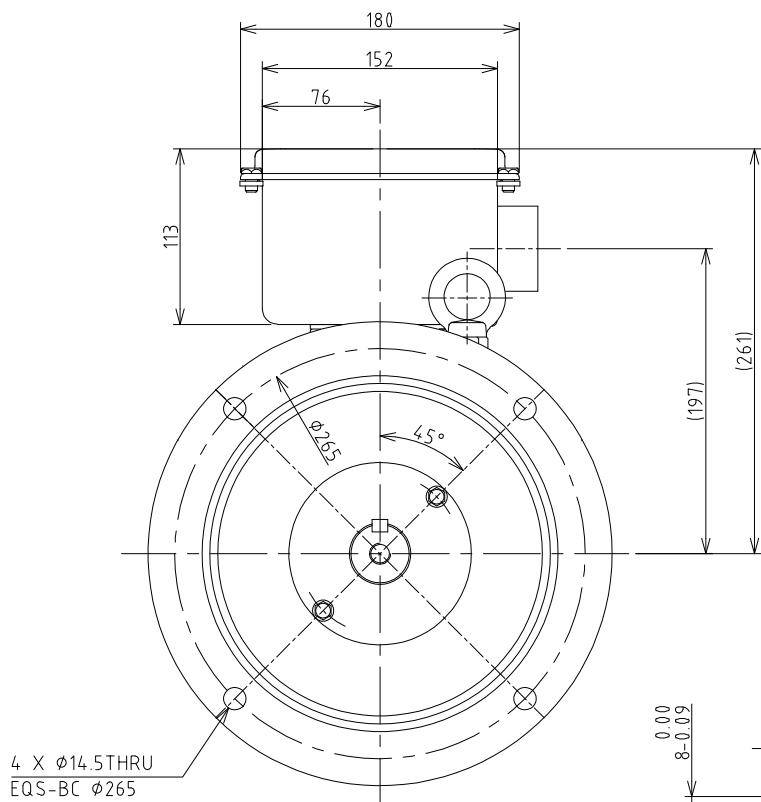




ROTATION: CCW  
VIEW FROM: ODE

UNIT: mm

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B5-FLANGE MOTOR  
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V  
FRAME: 132S

3HFN000243

TOLERANCES

X. ±2.0  
X.X ±0.5  
X.XX ±0.1

MAXIMUM  
MOTOR WEIGHT

- lbs.  
- kgs.

01  
NO

Adding "M" dimension  
REVISION

T.Danh  
DRAWN BY

Sep-10-18  
DATE

B.Quynh  
CHECK

**EQP Global SD**  
XT SERIES

DRAWN BY: HIEN. NGUYEN

CHECK BY: B.X.QUYNH

APPROVED BY: JAY BUGBEE

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TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

|                                                                                                                                                                               |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>TOSHIBA INTERNATIONAL CORPORATION</b><br><b>Industrial Division / Houston Motor Plant</b><br><br><b>SQUIRREL CAGE INDUCTION MOTOR</b><br><b>PERFORMANCE SPECIFICATIONS</b> | INDEX       | MPCF-1033 |
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|                                                                                                                                                                               | SUPERSEDES  | 11/8/96   |
|                                                                                                                                                                               | REVISION    | 2         |
|                                                                                                                                                                               | WRITTEN BY  | MDC       |
|                                                                                                                                                                               | APPROVED BY | PAA       |

CUSTOMER: -  
TIC SR No.: -

| MOTOR NAMEPLATE DATA      |                |                   |                |
|---------------------------|----------------|-------------------|----------------|
| H.P.: -                   | VOLTS: 230/400 | 3 PH / 50 Hz      | S. RPM: 1500   |
| FRAME: 132S               | ENCL: TEFC     | FLAMPS: 19.5/11.2 | FLRPM: 1465    |
| FORM: FBKL1               | S.F.: -        | IEC DESIGN NE     | INSUL CLASS: F |
| TYPE: IKKH                | AMB.: 40°C     | CODE: -           | DUTY: Cont.    |
| MODEL No.: Y554SDMV7JS-PL |                | kW: 5.5           |                |
| NOM. EFF.: 89.6           | MIN. EFF.: -   | cosØ 0.78         |                |

| AMPERAGE             | TORQUES                | **BEARINGS:                     |
|----------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 166/96 | FULL LOAD (lb-ft.): 26 | DRIVE END: REFER TO NP          |
|                      | LOCKED ROTOR (%): 415  | OPPOSITE DRIVE END: REFER TO NP |
|                      | BREAK DOWN (%): 420    |                                 |

| EFFICIENCY      | POWER FACTOR    |
|-----------------|-----------------|
| FULL LOAD: 90.8 | FULL LOAD: 78.0 |
| 3/4 LOAD: 90.2  | 3/4 LOAD: 71.8  |
| 1/2 LOAD: 87.8  | 1/2 LOAD: 60.0  |

|                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.</p> <p>THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.</p> <p>* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.</p> <p>** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**CERTIFIED BY:** Zichao Xie

**DATE:** 10/18/2019

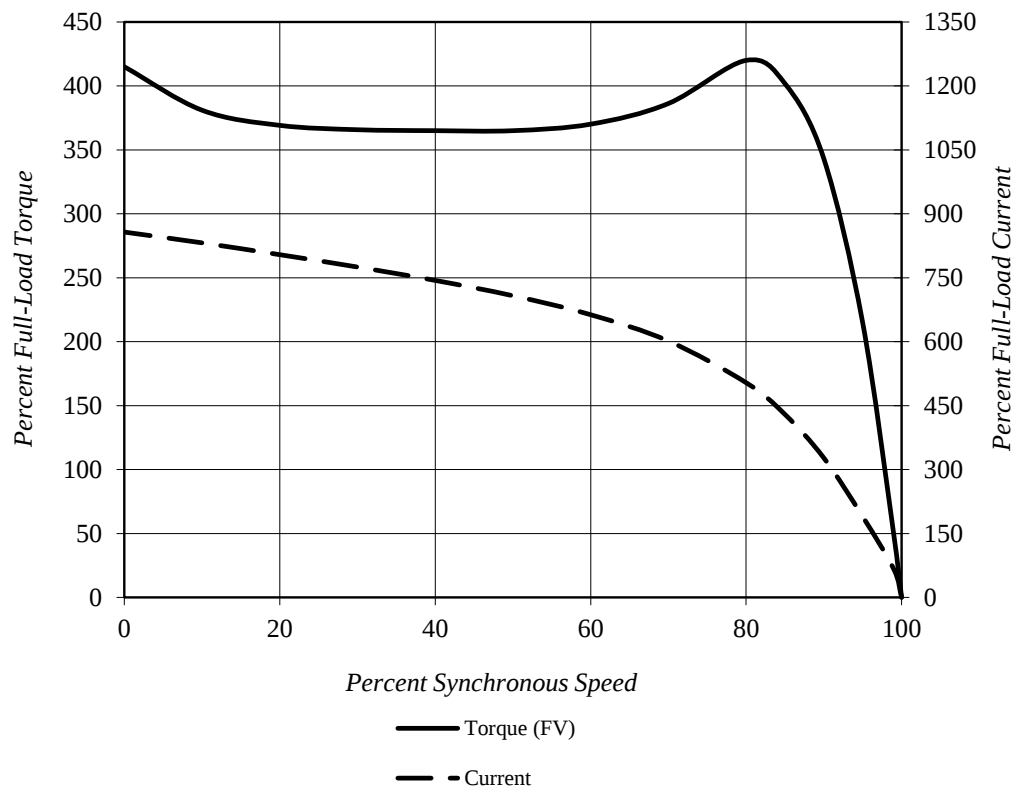
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.5/11.2      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 230/400 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1465           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |

|                             |          |                     |     |
|-----------------------------|----------|---------------------|-----|
| <b>Locked Rotor Amps:</b>   | 166/96 A | <b>Load Type:</b>   | N/A |
| <b>Locked Rotor Torque:</b> | 415%     | <b>Starting at:</b> | N/A |
| <b>Breakdown Torque:</b>    | 420%     | <b>Accel. Time:</b> | N/A |
| <b>Rated Torque:</b>        | 26 lb-ft |                     |     |

### Design Values



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

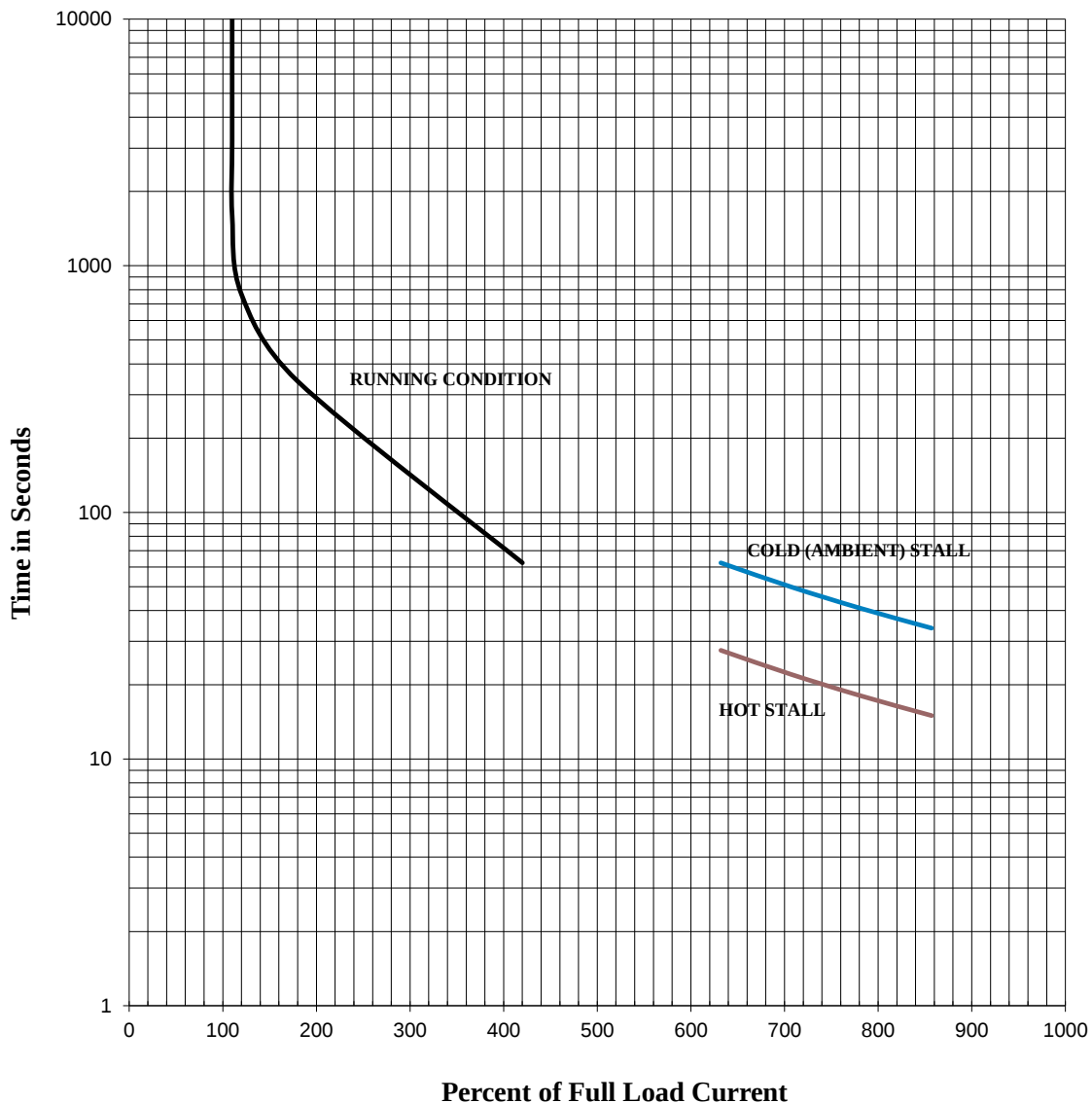
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.5/11.2      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 230/400 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1465           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

**Checked by:**

|                                                                                                                                                                               |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>TOSHIBA INTERNATIONAL CORPORATION</b><br><b>Industrial Division / Houston Motor Plant</b><br><br><b>SQUIRREL CAGE INDUCTION MOTOR</b><br><b>PERFORMANCE SPECIFICATIONS</b> | INDEX       | MPCF-1033 |
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|                                                                                                                                                                               | REVISION    | 2         |
|                                                                                                                                                                               | WRITTEN BY  | MDC       |
|                                                                                                                                                                               | APPROVED BY | PAA       |

CUSTOMER: -  
TIC SR No.: -

| MOTOR NAMEPLATE DATA      |                |                   |                |
|---------------------------|----------------|-------------------|----------------|
| H.P.: -                   | VOLTS: 240/415 | 3 PH / 50 Hz      | S. RPM: 1500   |
| FRAME: 132S               | ENCL: TEFC     | FLAMPS: 19.4/11.2 | FLRPM: 1470    |
| FORM: FBKL1               | S.F.: -        | IEC DESIGN NE     | INSUL CLASS: F |
| TYPE: IKKH                | AMB.: 40°C     | CODE: -           | DUTY: Cont.    |
| MODEL No.: Y554SDMV7JS-PL |                | kW: 5.5           |                |
| NOM. EFF.: 89.6           | MIN. EFF.: -   | cosØ 0.75         |                |

| AMPERAGE              | TORQUES                | **BEARINGS:                     |
|-----------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 173/100 | FULL LOAD (lb-ft.): 26 | DRIVE END: REFER TO NP          |
|                       | LOCKED ROTOR (%): 455  | OPPOSITE DRIVE END: REFER TO NP |
|                       | BREAK DOWN (%): 450    |                                 |

| EFFICIENCY      | POWER FACTOR    |
|-----------------|-----------------|
| FULL LOAD: 90.9 | FULL LOAD: 75.1 |
| 3/4 LOAD: 90.1  | 3/4 LOAD: 67.9  |
| 1/2 LOAD: 87.4  | 1/2 LOAD: 55.3  |

|                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.</p> <p>THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.</p> <p>* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.</p> <p>** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**CERTIFIED BY:** Zichao Xie

**DATE:** 10/18/2019

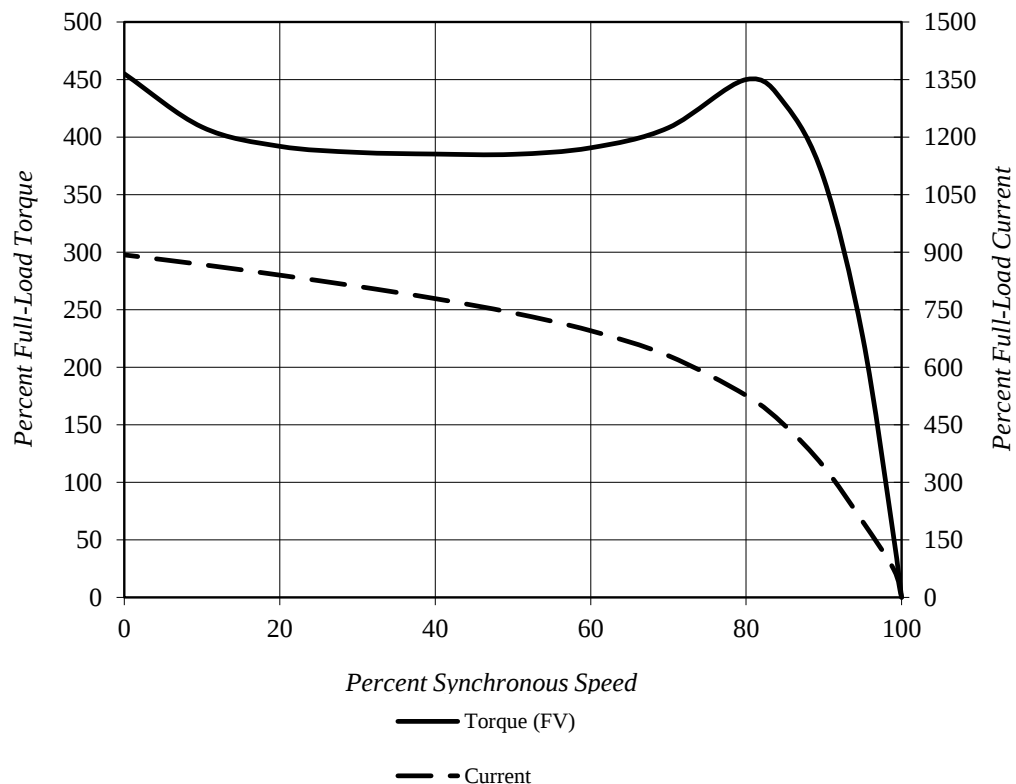
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.4/11.2      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 240/415 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1470           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |

|                             |           |                     |     |
|-----------------------------|-----------|---------------------|-----|
| <b>Locked Rotor Amps:</b>   | 173/100 A | <b>Load Type:</b>   | N/A |
| <b>Locked Rotor Torque:</b> | 455%      | <b>Starting at:</b> | N/A |
| <b>Breakdown Torque:</b>    | 450%      | <b>Accel. Time:</b> | N/A |
| <b>Rated Torque:</b>        | 26 lb-ft  |                     |     |

### Design Values



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

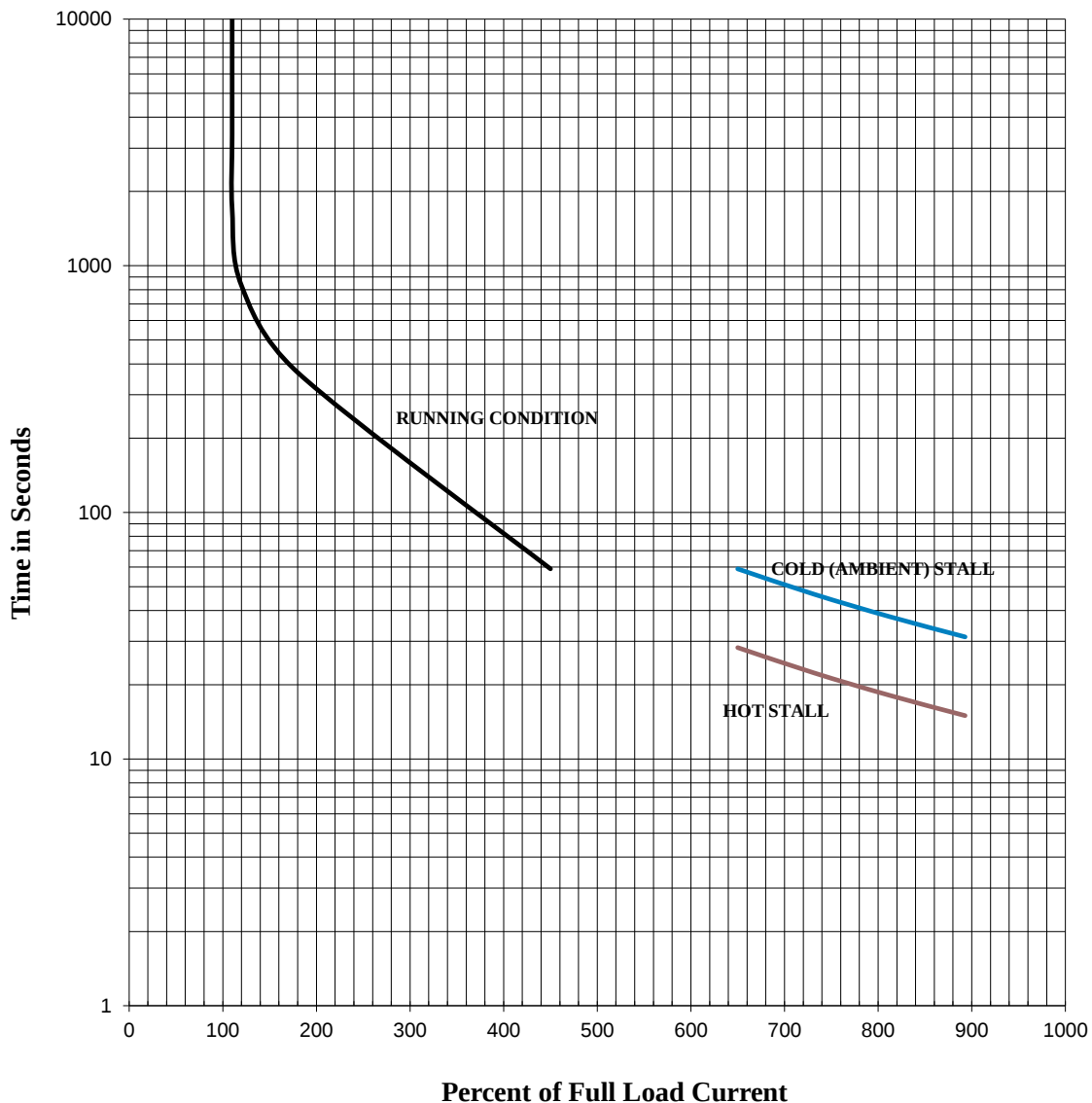
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.4/11.2      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 240/415 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1470           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

**Checked by:**

|                                                                                                                                                                               |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>TOSHIBA INTERNATIONAL CORPORATION</b><br><b>Industrial Division / Houston Motor Plant</b><br><br><b>SQUIRREL CAGE INDUCTION MOTOR</b><br><b>PERFORMANCE SPECIFICATIONS</b> | INDEX       | MPCF-1033 |
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|                                                                                                                                                                               | REVISION    | 2         |
|                                                                                                                                                                               | WRITTEN BY  | MDC       |
|                                                                                                                                                                               | APPROVED BY | PAA       |

CUSTOMER: -  
TIC SR No.: -

| MOTOR NAMEPLATE DATA      |                |                   |                |
|---------------------------|----------------|-------------------|----------------|
| H.P.: -                   | VOLTS: 220/380 | 3 PH / 50 Hz      | S. RPM: 1500   |
| FRAME: 132S               | ENCL: TEFC     | FLAMPS: 19.7/11.4 | FLRPM: 1465    |
| FORM: FBKL1               | S.F.: -        | IEC DESIGN NE     | INSUL CLASS: F |
| TYPE: IKKH                | AMB.: 40°C     | CODE: -           | DUTY: Cont.    |
| MODEL No.: Y554SDMV7JS-PL |                | kW: 5.5           |                |
| NOM. EFF.: 89.6           | MIN. EFF.: -   | cosØ 0.81         |                |

| AMPERAGE             | TORQUES                | **BEARINGS:                     |
|----------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 156/90 | FULL LOAD (lb-ft.): 27 | DRIVE END: REFER TO NP          |
|                      | LOCKED ROTOR (%): 370  | OPPOSITE DRIVE END: REFER TO NP |
|                      | BREAK DOWN (%): 380    |                                 |

| EFFICIENCY      | POWER FACTOR    |
|-----------------|-----------------|
| FULL LOAD: 90.4 | FULL LOAD: 81.3 |
| 3/4 LOAD: 90.1  | 3/4 LOAD: 76.5  |
| 1/2 LOAD: 88.2  | 1/2 LOAD: 66.3  |

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

**CERTIFIED BY:** Zichao Xie

**DATE:** 10/18/2019

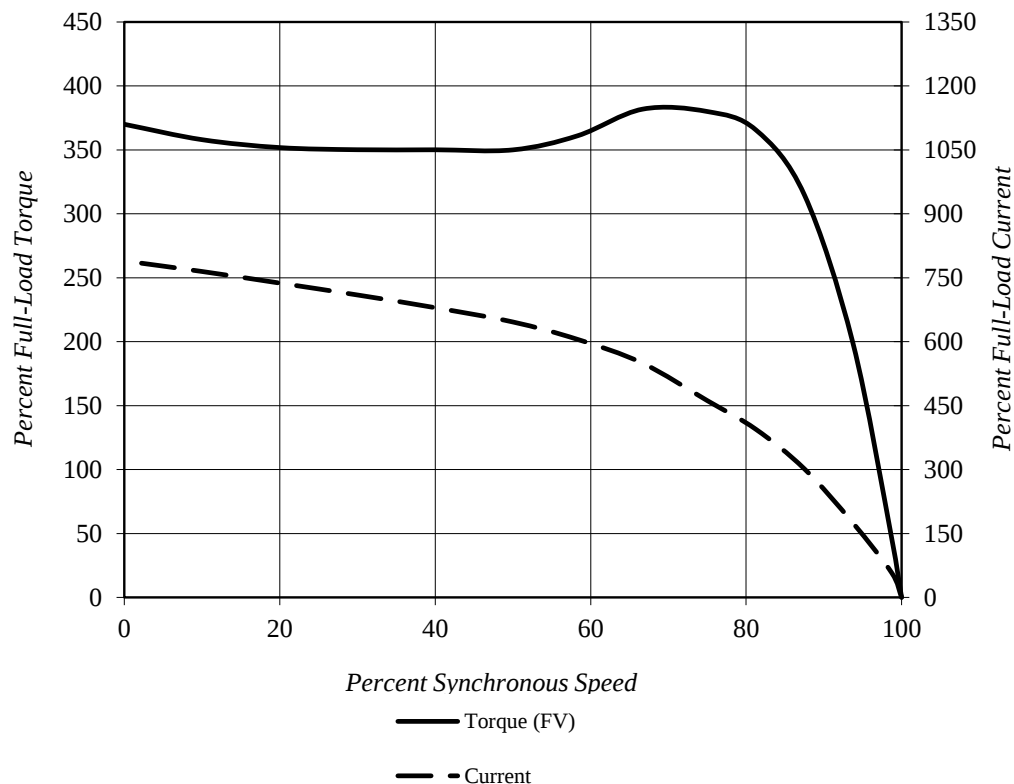
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.7/11.4      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 220/380 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1465           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |

|                             |          |                     |     |
|-----------------------------|----------|---------------------|-----|
| <b>Locked Rotor Amps:</b>   | 156/90 A | <b>Load Type:</b>   | N/A |
| <b>Locked Rotor Torque:</b> | 370%     | <b>Starting at:</b> | N/A |
| <b>Breakdown Torque:</b>    | 380%     | <b>Accel. Time:</b> | N/A |
| <b>Rated Torque:</b>        | 27 lb-ft |                     |     |

### Design Values



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

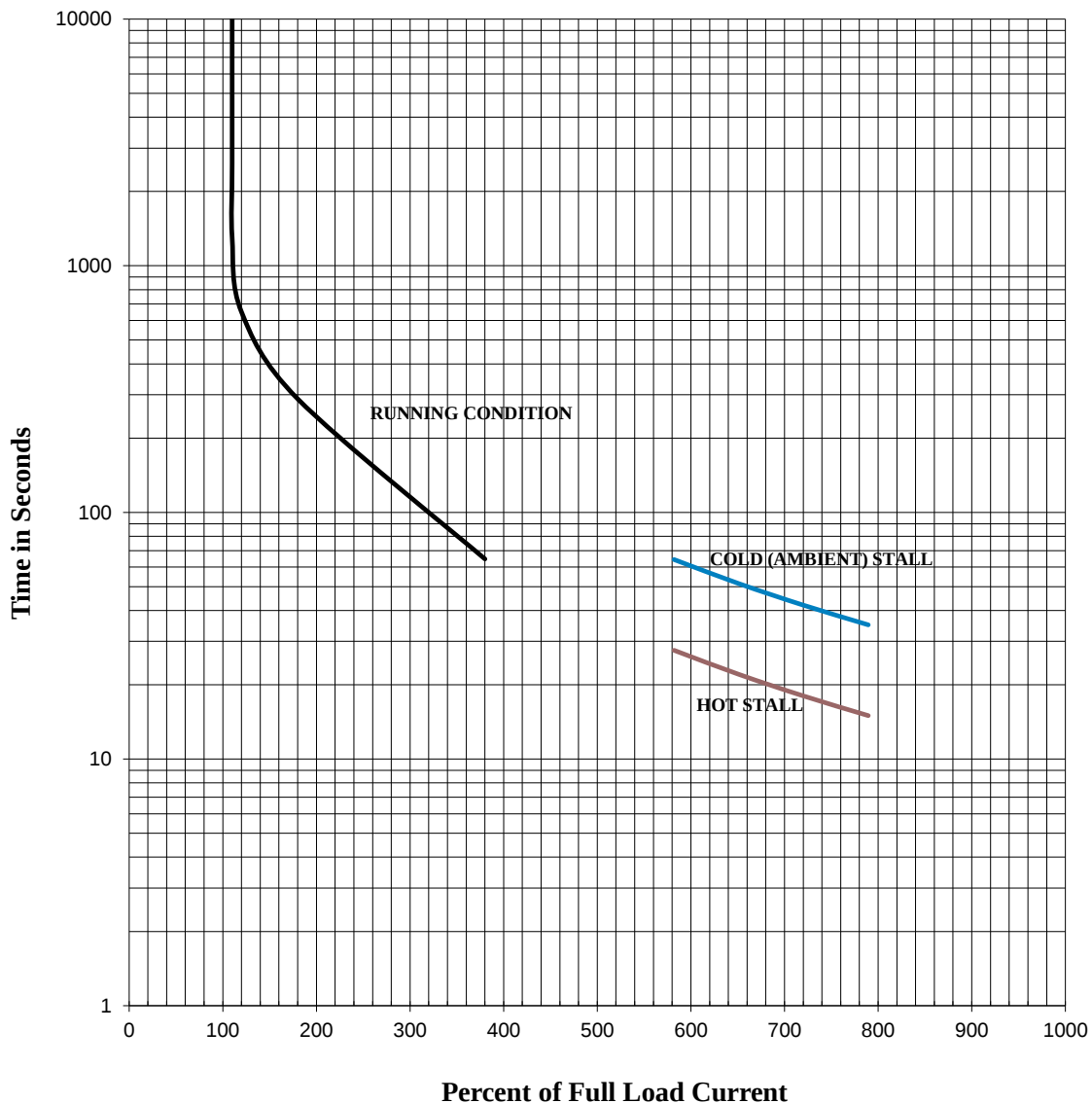
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 19.7/11.4      |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 220/380 V              | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 50 Hz           | <b>Ins. Class:</b> | F              |
| <b>KW:</b>        | 5.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1465           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

**Checked by:**

|                                                                                                                                                                               |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>TOSHIBA INTERNATIONAL CORPORATION</b><br><b>Industrial Division / Houston Motor Plant</b><br><br><b>SQUIRREL CAGE INDUCTION MOTOR</b><br><b>PERFORMANCE SPECIFICATIONS</b> | INDEX       | MPCF-1033 |
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|                                                                                                                                                                               | REVISION    | 2         |
|                                                                                                                                                                               | WRITTEN BY  | MDC       |
|                                                                                                                                                                               | APPROVED BY | PAA       |

CUSTOMER: -

TIC SR No.: -

| MOTOR NAMEPLATE DATA      |              |                |                |
|---------------------------|--------------|----------------|----------------|
| H.P.: 7.5                 | VOLTS: 460   | 3 PH / 60 Hz   | S. RPM: 1800   |
| FRAME: 132S               | ENCL: TEFC   | FLAMPS: 9.9    | FLRPM: 1770    |
| FORM: FBKL1               | S.F.: 1.15   | NEMA DESIGN: A | INSUL CLASS: F |
| TYPE: IKKH                | AMB.: 40°C   | CODE: M        | DUTY: Cont.    |
| MODEL No.: Y554SDMV7JS-PL |              | kW: 5.5        |                |
| NOM. EFF.: 91.7           | MIN. EFF.: - | P.F.: 76.0     |                |

| AMPERAGE         | TORQUES                | **BEARINGS:                     |
|------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 98 | FULL LOAD (lb-ft.): 22 | DRIVE END: REFER TO NP          |
|                  | LOCKED ROTOR (%): 430  | OPPOSITE DRIVE END: REFER TO NP |
|                  | BREAK DOWN (%): 440    |                                 |

| EFFICIENCY      | POWER FACTOR    |
|-----------------|-----------------|
| FULL LOAD: 91.3 | FULL LOAD: 76.3 |
| 3/4 LOAD: 90.2  | 3/4 LOAD: 70.1  |
| 1/2 LOAD: 87.4  | 1/2 LOAD: 58.4  |

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

**CERTIFIED BY:** Zichao Xie

**DATE:** 10/18/2019

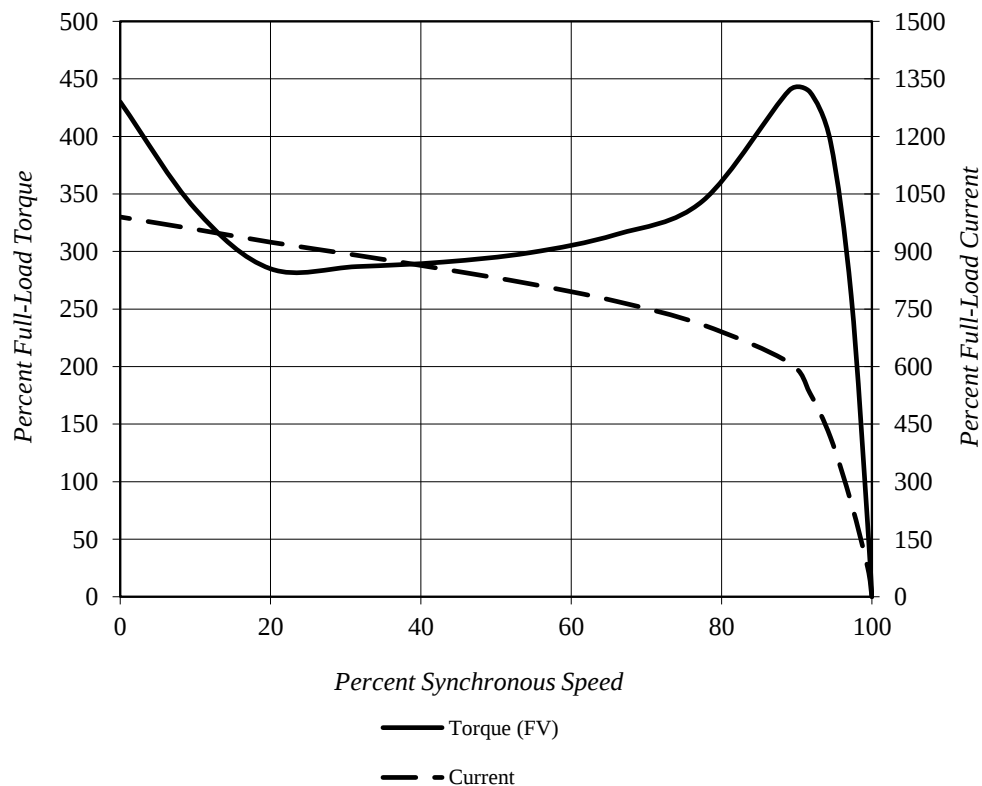
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 9.9            |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 460 V                  | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 60 Hz           | <b>Ins. Class:</b> | F              |
| <b>HP:</b>        | 7.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1770           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |

|                             |          |                     |     |
|-----------------------------|----------|---------------------|-----|
| <b>Locked Rotor Amps:</b>   | 98 A     | <b>Load Type:</b>   | N/A |
| <b>Locked Rotor Torque:</b> | 430%     | <b>Starting at:</b> | N/A |
| <b>Breakdown Torque:</b>    | 440%     | <b>Accel. Time:</b> | N/A |
| <b>Rated Torque:</b>        | 22 lb-ft |                     |     |

### *Design Values*



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

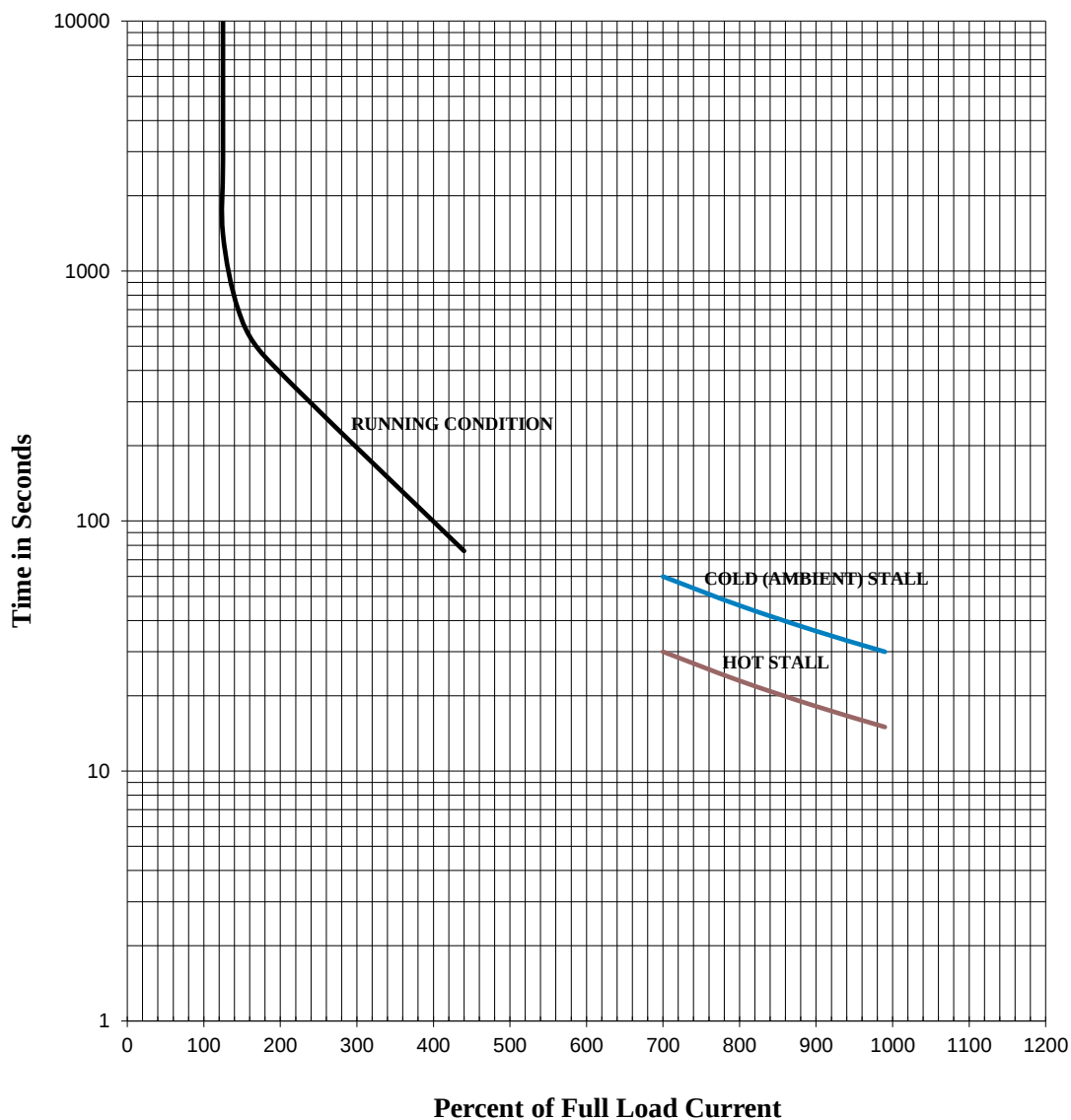
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

|                   |                |                       |                        |                    |                |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| <b>Model #:</b>   | Y554SDMV7JS-PL |                       |                        | <b>FLAmps:</b>     | 9.9            |
| <b>Enclosure:</b> | TEFC           | <b>Voltage:</b>       | 460 V                  | <b>Frame:</b>      | 132S           |
| <b>Pole:</b>      | 4              | <b>Frequency:</b>     | 3 PH / 60 Hz           | <b>Ins. Class:</b> | F              |
| <b>HP:</b>        | 7.5            | <b>Rotor Inertia:</b> | 1.1 lb-ft <sup>2</sup> | <b>Date:</b>       | 10/18/2019     |
| <b>FLRPM:</b>     | 1770           | <b>Load Inertia:</b>  | N/A                    | <b>File:</b>       | GH4Y55 (5.5kW) |



**Comments:** PROJECT -

**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

**Checked by:**