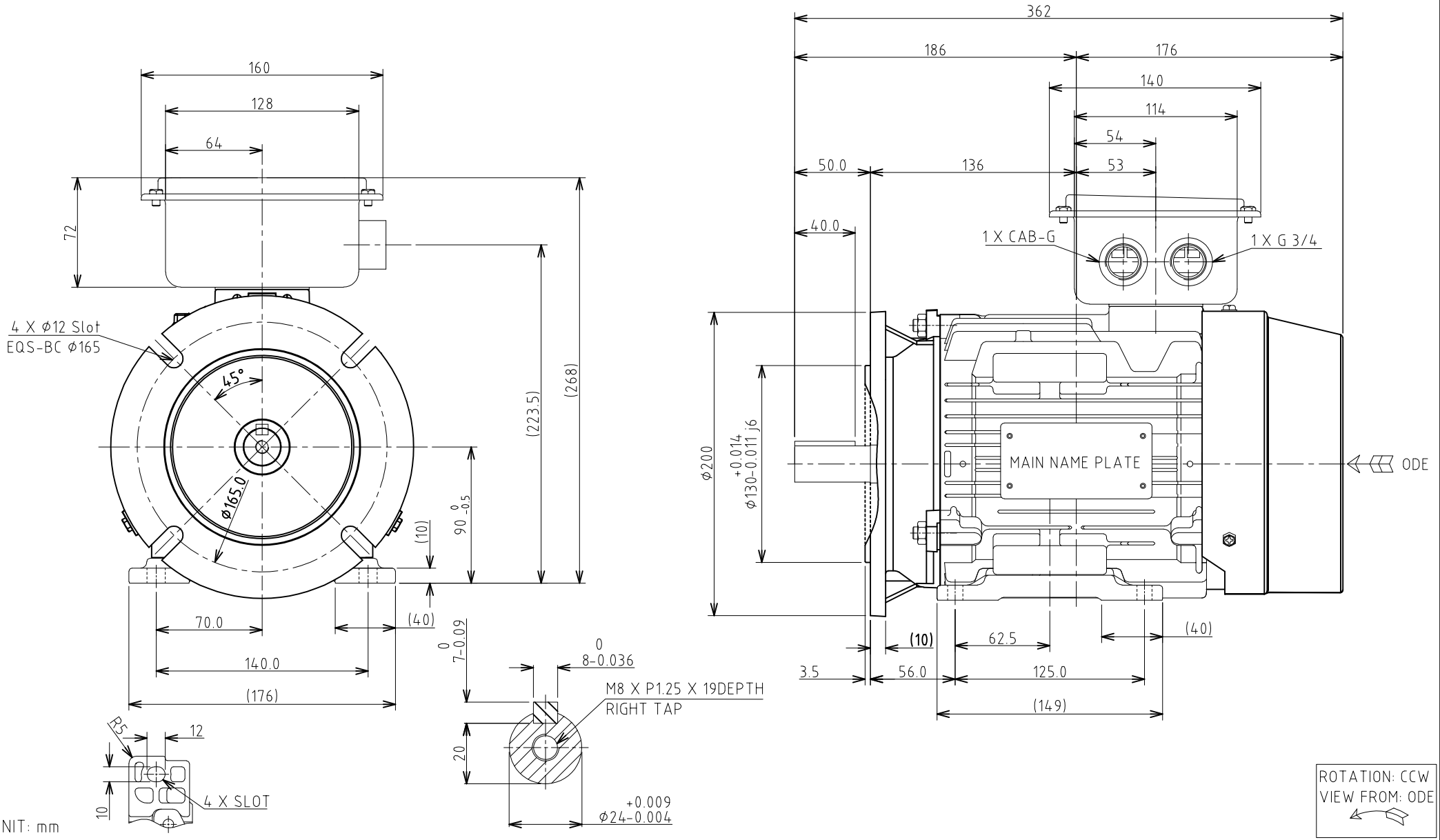




B35-FLANGE MOTOR
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V

FRAME: 90L

3HFN000229

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

| | |
|---|---|
| X. | ±2.0 |
| X.X | ±0.5 |
| X.XX | ±0.1 |

MAXIMUM MOTOR WEIGHT
- lbs.
- kgs.

| NO | REVISION | DRAWN BY | DATE | CHECK |
|---|---|---|---|---|
| 02 | change to description | T.Danh | 09-Sep-18 | B.Quynh |
| 01 | Change design BB adding slot hole | T.Danh | 20-Apr-18 | B.Quynh |

EQP Global SD
XT SERIES

DRAWN BY: HIEN. NGUYEN
CHECK BY: B.X.QUYNH
APPROVED BY: JAY BUGBEE
www.toshiba.com/ind

# TOSHIBA INTERNATIONAL CORPORATION
## Industrial Division / Houston Motor Plant

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| WRITTEN BY | MDC |
| APPROVED BY | PAA |

## SQUIRREL CAGE INDUCTION MOTOR
## PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

## MOTOR NAMEPLATE DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H.P.: | - | VOLTS: | 230/400 | 3 PH / | 50 Hz | S. RPM: | 1000 |
| FRAME: | 90L | ENCL: | TEFC | FLAMPS: | 4.9/2.8 | FLRPM: | 975 |
| FORM: | FBKL1 | S.F.: | - | IEC DESIGN | N | INSUL CLASS: | F |
| TYPE: | IKH | AMB.: | 40°C | CODE: | - | DUTY: | Cont. |
| MODEL No.: | Y116SDMV7GS-PL | | | kW: | 1.1 | | |
| NOM. EFF.: | 81.0 | MIN. EFF.: | - | cosØ | 0.64 | | |

| **AMPERAGE** | | **TORQUES** | | ****BEARINGS:** | |
|---|---|---|---|---|---|
| LOCKED ROTOR: | 38/22 | FULL LOAD (lb-ft.): | 8.2 | DRIVE END: | REFER TO NP |
| | | LOCKED ROTOR (%): | 395 | OPPOSITE DRIVE END: | REFER TO NP |
| | | BREAK DOWN (%): | 425 | | |

| **EFFICIENCY** | | **POWER FACTOR** | |
|---|---|---|---|
| FULL LOAD: | 87.2 | FULL LOAD: | 64.5 |
| 3/4 LOAD: | 86.8 | 3/4 LOAD: | 58.0 |
| 1/2 LOAD: | 83.9 | 1/2 LOAD: | 47.0 |

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.

THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.

* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.

** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

**CERTIFIED BY:** Zichao Xie

**DATE:** 6/25/2020

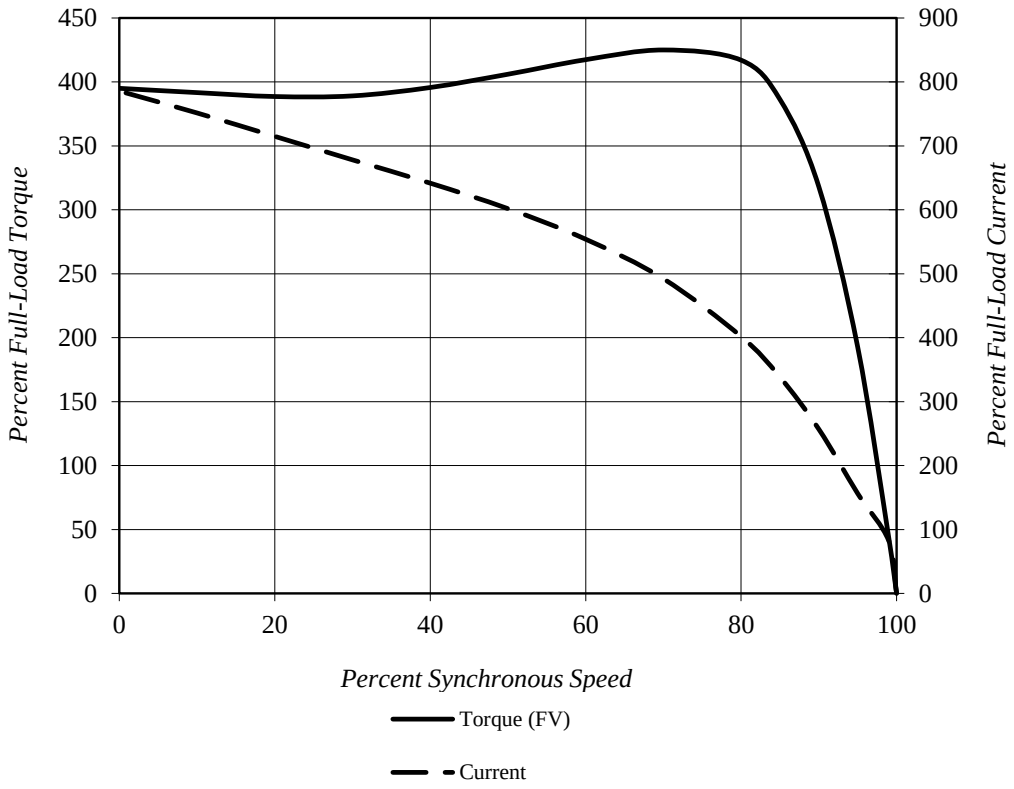
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 4.9/2.8 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 230/400 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 975 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |

| | | | |
|---|---|---|---|
| ***Locked Rotor Amps:*** | 38/22 A | ***Load Type:*** | N/A |
| ***Locked Rotor Torque:*** | 395% | ***Starting at:*** | N/A |
| ***Breakdown Torque:*** | 425% | ***Accel. Time:*** | N/A |
| ***Rated Torque:*** | 8.2 lb-ft | | |

***Design Values***




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

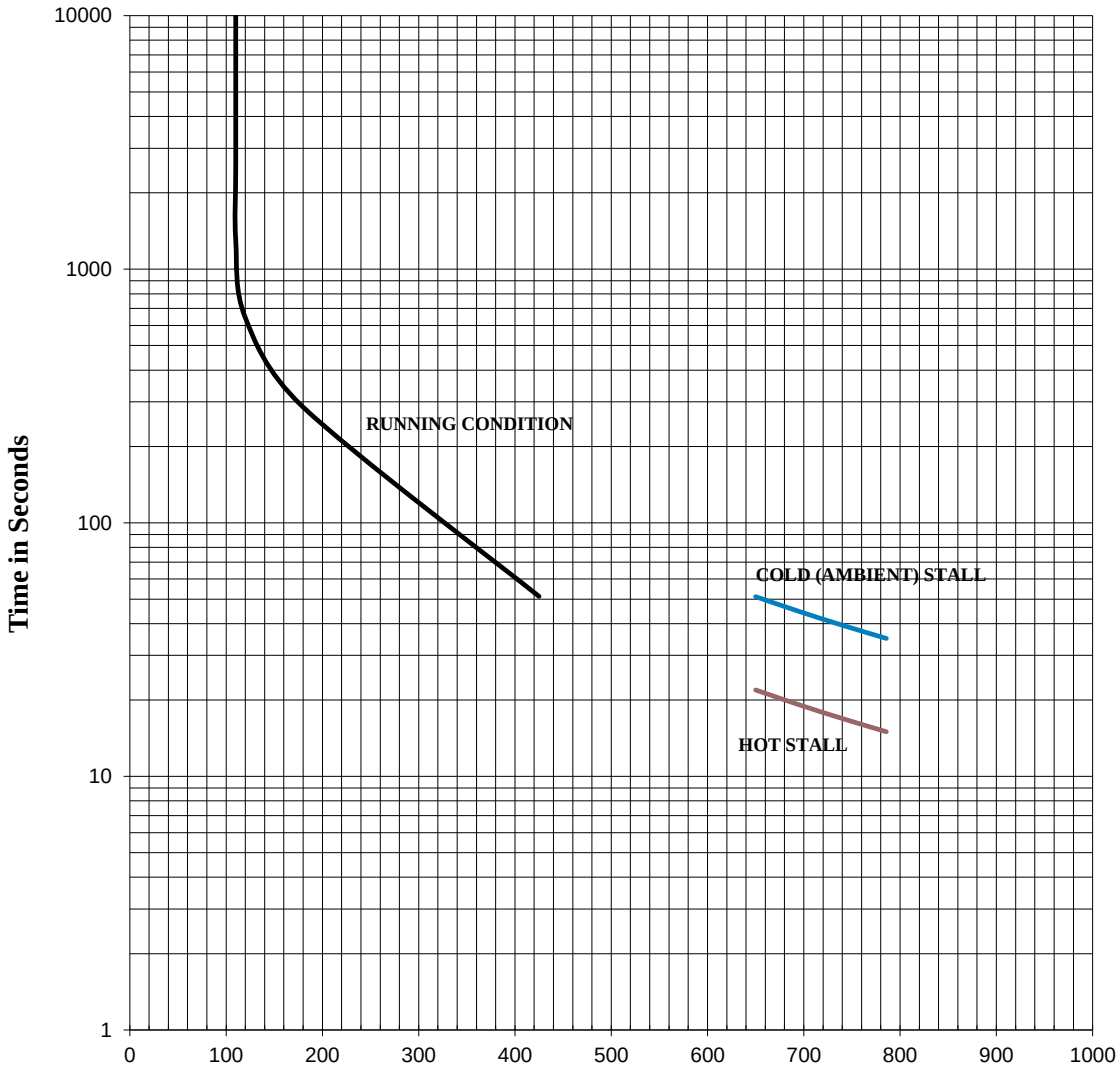
| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

***Design Values (For Reference Only)***

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 4.9/2.8 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 230/400 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 975 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION
## Industrial Division / Houston Motor Plant

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| APPROVED BY | PAA |

## SQUIRREL CAGE INDUCTION MOTOR
## PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

## MOTOR NAMEPLATE DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H.P.: | - | VOLTS: | 240/415 | 3 PH / | 50 Hz | S. RPM: | 1000 |
| FRAME: | 90L | ENCL: | TEFC | FLAMPS: | 4.8/2.8 | FLRPM: | 975 |
| FORM: | FBKL1 | S.F.: | - | IEC DESIGN | N | INSUL CLASS: | F |
| TYPE: | IKH | AMB.: | 40°C | CODE: | - | DUTY: | Cont. |
| MODEL No.: | Y116SDMV7GS-PL | | | kW: | 1.1 | | |
| NOM. EFF.: | 81.0 | MIN. EFF.: | - | cosØ | 0.63 | | |

| **AMPERAGE** | | **TORQUES** | | ****BEARINGS:** | |
|---|---|---|---|---|---|
| LOCKED ROTOR: | 40/23 | FULL LOAD (lb-ft.): | 8.1 | DRIVE END: | REFER TO NP |
| | | LOCKED ROTOR (%): | 435 | OPPOSITE DRIVE END: | REFER TO NP |
| | | BREAK DOWN (%): | 455 | | |

| **EFFICIENCY** | | **POWER FACTOR** | |
|---|---|---|---|
| FULL LOAD: | 87.4 | FULL LOAD: | 63.0 |
| 3/4 LOAD: | 86.6 | 3/4 LOAD: | 56.0 |
| 1/2 LOAD: | 83.3 | 1/2 LOAD: | 44.9 |

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.

THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.

* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.

** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

**CERTIFIED BY:** Zichao Xie

**DATE:** 6/25/2020

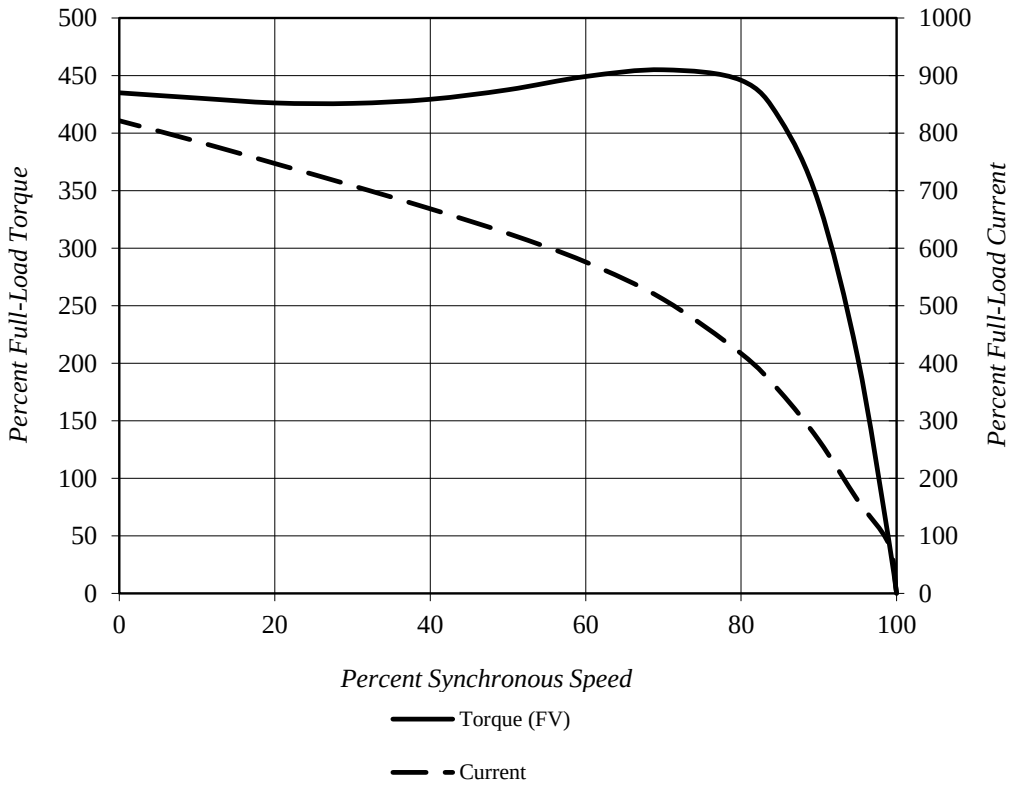
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 4.8/2.8 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 240/415 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 975 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |

| | | | |
|---|---|---|---|
| ***Locked Rotor Amps:*** | 40/23 A | ***Load Type:*** | N/A |
| ***Locked Rotor Torque:*** | 435% | ***Starting at:*** | N/A |
| ***Breakdown Torque:*** | 455% | ***Accel. Time:*** | N/A |
| ***Rated Torque:*** | 8.1 lb-ft | | |

***Design Values***




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

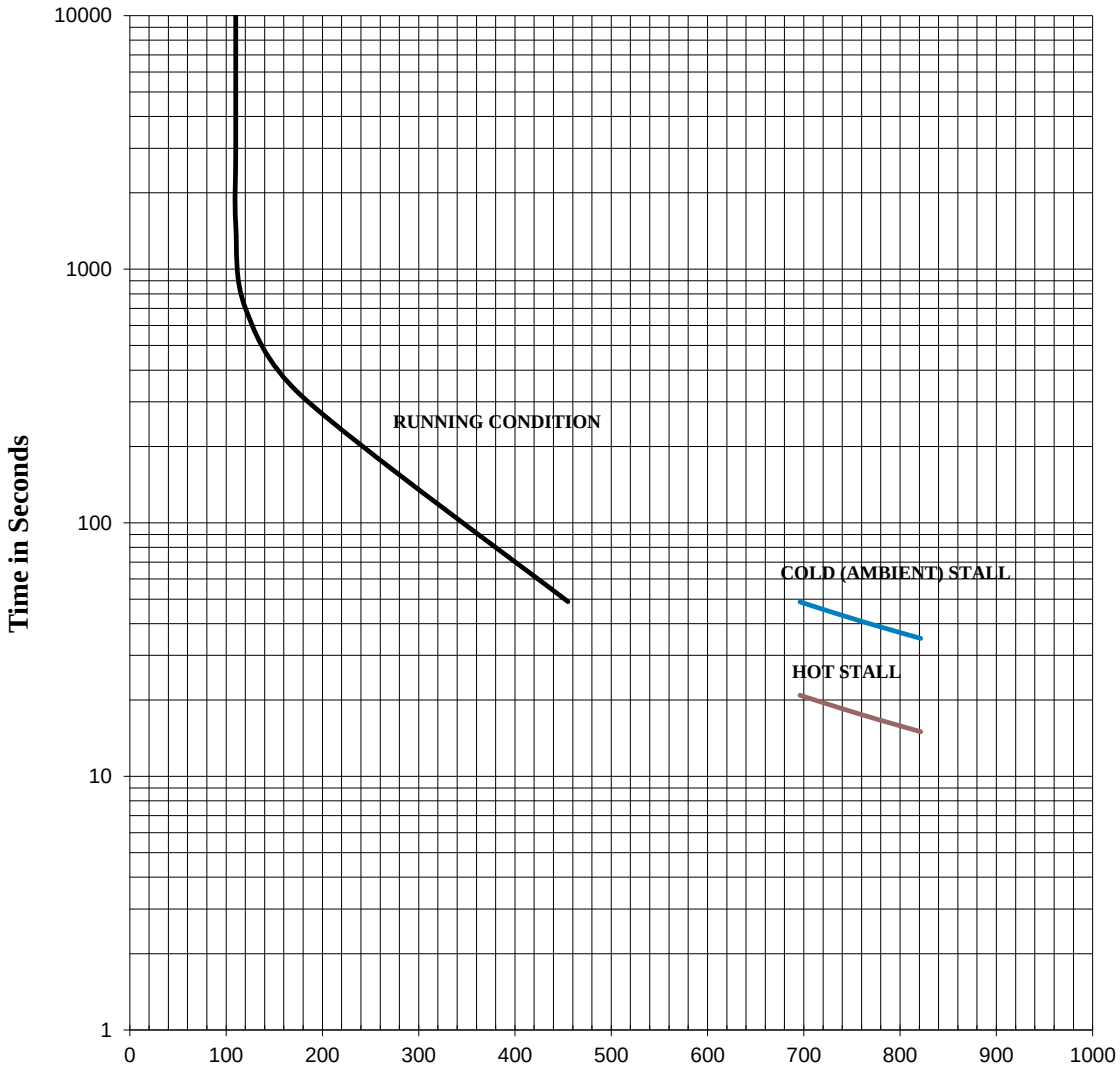
| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

***Design Values (For Reference Only)***

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 4.8/2.8 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 240/415 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 975 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION
## Industrial Division / Houston Motor Plant

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| APPROVED BY | PAA |

## SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

## MOTOR NAMEPLATE DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H.P.: | - | VOLTS: | 220/380 | 3 PH / | 50 Hz | S. RPM: | 1000 |
| FRAME: | 90L | ENCL: | TEFC | FLAMPS: | 5.0/2.9 | FLRPM: | 970 |
| FORM: | FBKL1 | S.F.: | - | IEC DESIGN | N | INSUL CLASS: | F |
| TYPE: | IKH | AMB.: | 40°C | CODE: | - | DUTY: | Cont. |
| MODEL No.: | Y116SDMV7GS-PL | | | kW: | 1.1 | | |
| NOM. EFF.: | 81.0 | MIN. EFF.: | - | cosØ | 0.66 | | |

| **AMPERAGE** | | **TORQUES** | | ****BEARINGS:** | |
|---|---|---|---|---|---|
| LOCKED ROTOR: | 36/21 | FULL LOAD (lb-ft.): | 8.2 | DRIVE END: | REFER TO NP |
| | | LOCKED ROTOR (%): | 345 | OPPOSITE DRIVE END: | REFER TO NP |
| | | BREAK DOWN (%): | 385 | | |

| **EFFICIENCY** | | **POWER FACTOR** | |
|---|---|---|---|
| FULL LOAD: | 86.8 | FULL LOAD: | 66.4 |
| 3/4 LOAD: | 86.9 | 3/4 LOAD: | 60.6 |
| 1/2 LOAD: | 84.6 | 1/2 LOAD: | 50.0 |

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.

THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.

* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.

** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

**CERTIFIED BY:** Zichao Xie

**DATE:** 6/25/2020

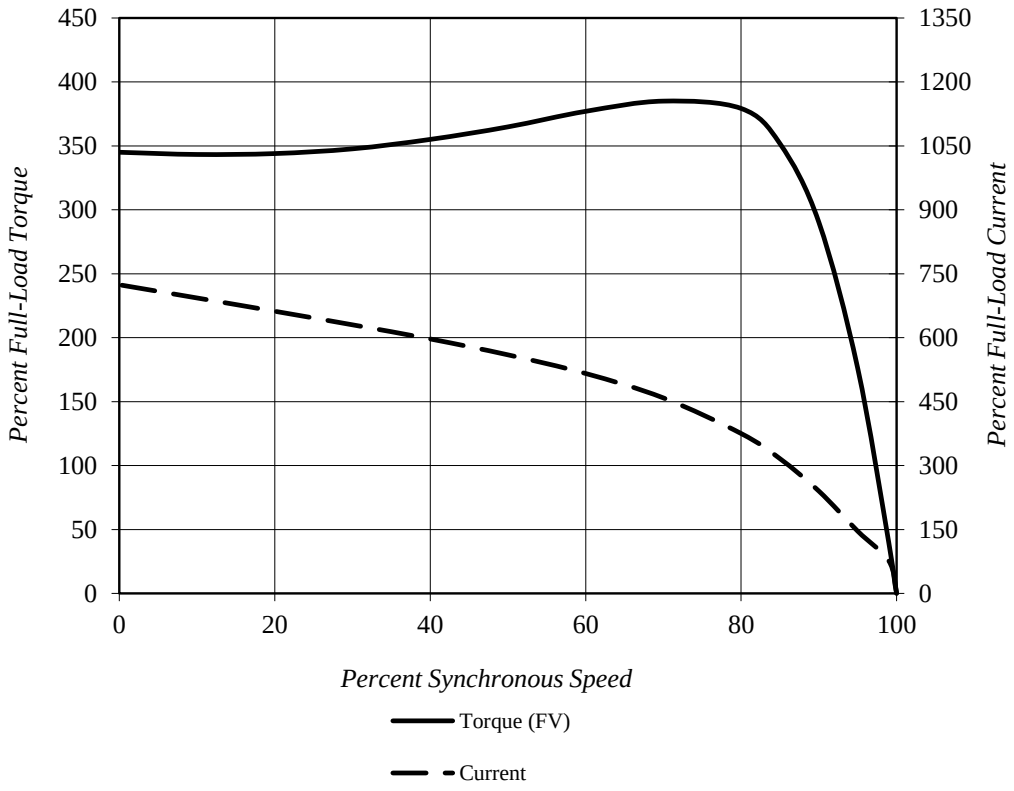
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 5.0/2.9 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 220/380 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 970 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |

| | | | |
|---|---|---|---|
| ***Locked Rotor Amps:*** | 36/21 A | ***Load Type:*** | N/A |
| ***Locked Rotor Torque:*** | 345% | ***Starting at:*** | N/A |
| ***Breakdown Torque:*** | 385% | ***Accel. Time:*** | N/A |
| ***Rated Torque:*** | 8.2 lb-ft | | |

***Design Values***




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

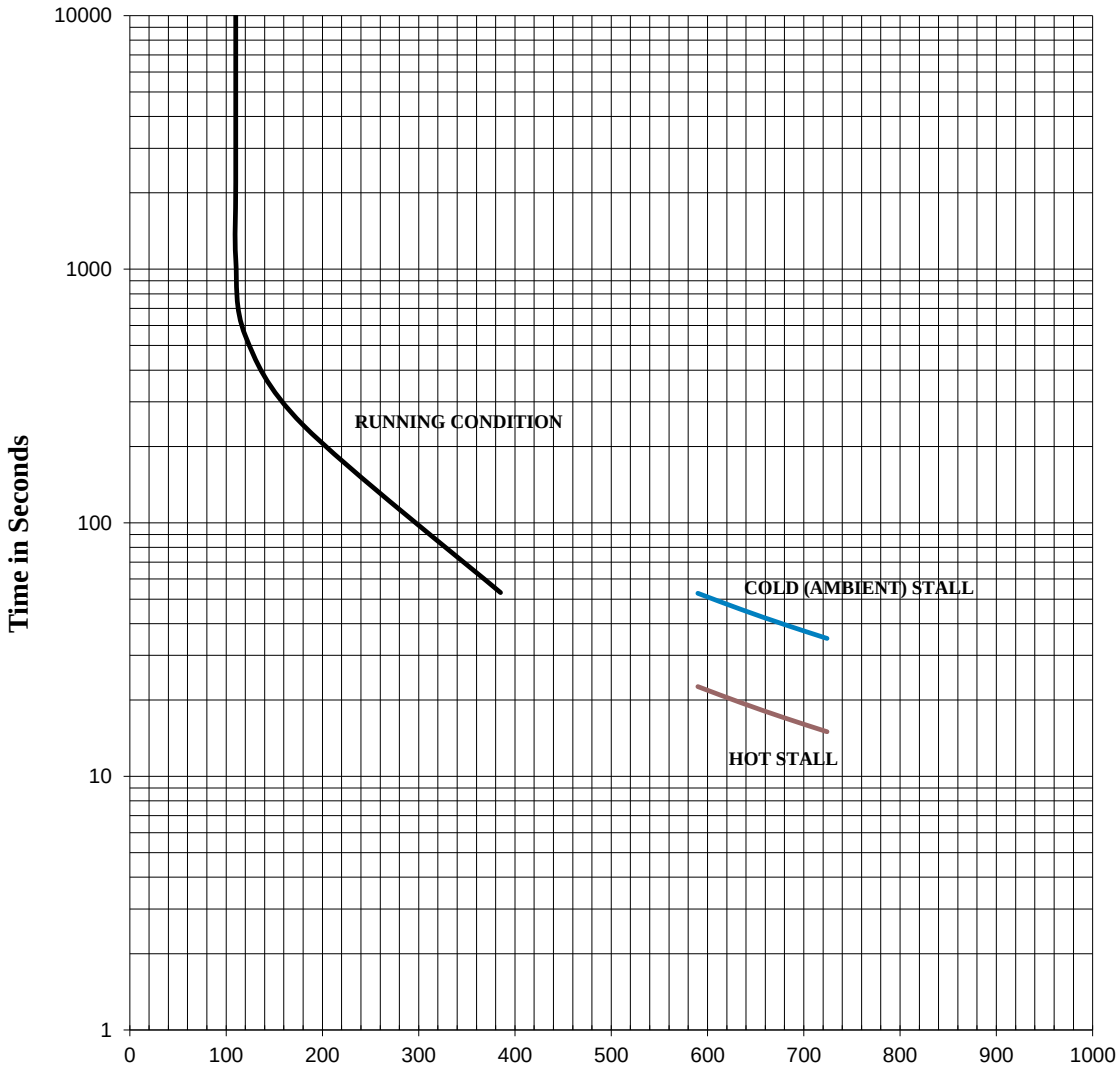
| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

***Design Values (For Reference Only)***

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 5.0/2.9 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 220/380 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 50 Hz | ***Ins. Class:*** | F |
| ***KW:*** | 1.1 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 970 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

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## SQUIRREL CAGE INDUCTION MOTOR
## PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

## MOTOR NAMEPLATE DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H.P.: | 1.5 | VOLTS: | 460 | 3 PH / | 60 Hz | S. RPM: | 1200 |
| FRAME: | 90L | ENCL: | TEFC | FLAMPS: | 2.6 | FLRPM: | 1175 |
| FORM: | FBKL1 | S.F.: | 1.15 | NEMA DESIGN: | A | INSUL CLASS: | F |
| TYPE: | IKH | AMB.: | 40°C | CODE: | N | DUTY: | Cont. |
| MODEL No.: | Y116SDMV7GS-PL | | | kW: | 1.1 | | |
| NOM. EFF.: | 87.5 | MIN. EFF.: | - | P.F.: | 59.5 | | |

| **AMPERAGE** | | **TORQUES** | | ****BEARINGS:** | |
|---|---|---|---|---|---|
| LOCKED ROTOR: | 22 | FULL LOAD (lb-ft.): | 6.7 | DRIVE END: | REFER TO NP |
| | | LOCKED ROTOR (%): | 305 | OPPOSITE DRIVE END: | REFER TO NP |
| | | BREAK DOWN (%): | 455 | | |

| **EFFICIENCY** | | **POWER FACTOR** | |
|---|---|---|---|
| FULL LOAD: | 87.8 | FULL LOAD: | 59.5 |
| 3/4 LOAD: | 86.6 | 3/4 LOAD: | 52.7 |
| 1/2 LOAD: | 82.9 | 1/2 LOAD: | 42.1 |

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.

THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.

* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS DEFINED BY NEMA-MG-12 OR -20.

** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

**CERTIFIED BY:** Zichao Xie

**DATE:** 6/25/2020

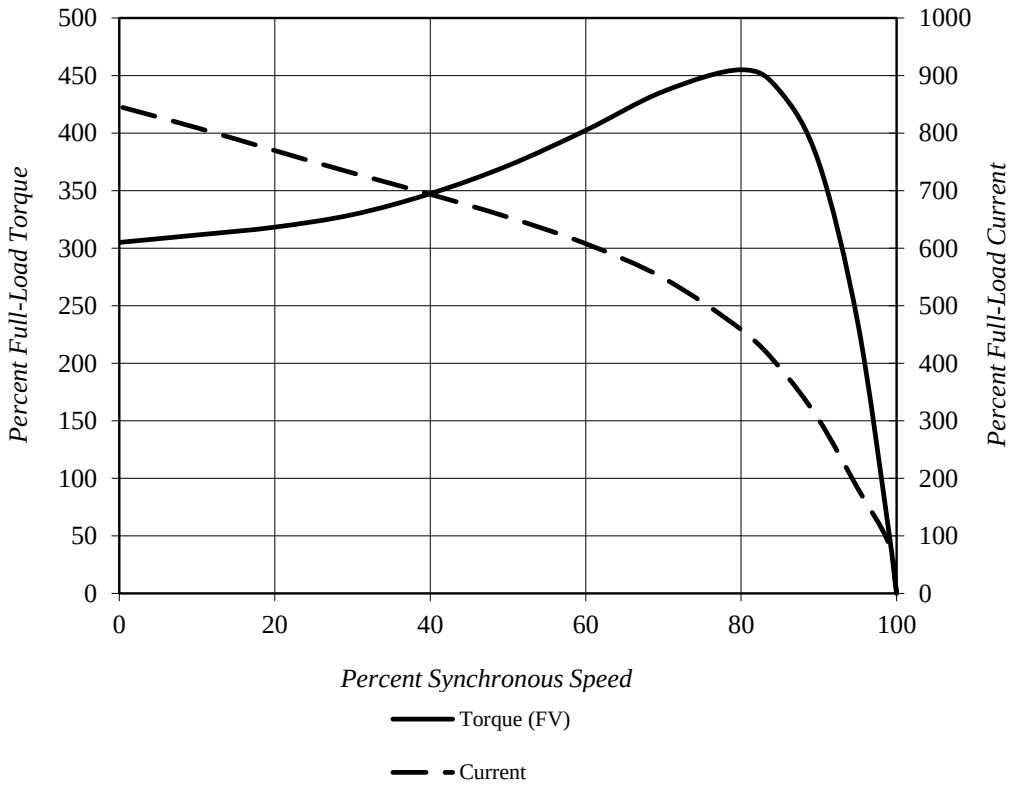
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 2.6 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 460 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 60 Hz | ***Ins. Class:*** | F |
| ***HP:*** | 1.5 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 1175 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |

| | | | |
|---|---|---|---|
| ***Locked Rotor Amps:*** | 22 A | ***Load Type:*** | N/A |
| ***Locked Rotor Torque:*** | 305% | ***Starting at:*** | N/A |
| ***Breakdown Torque:*** | 455% | ***Accel. Time:*** | N/A |
| ***Rated Torque:*** | 6.7 lb-ft | | |

***Design Values***




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

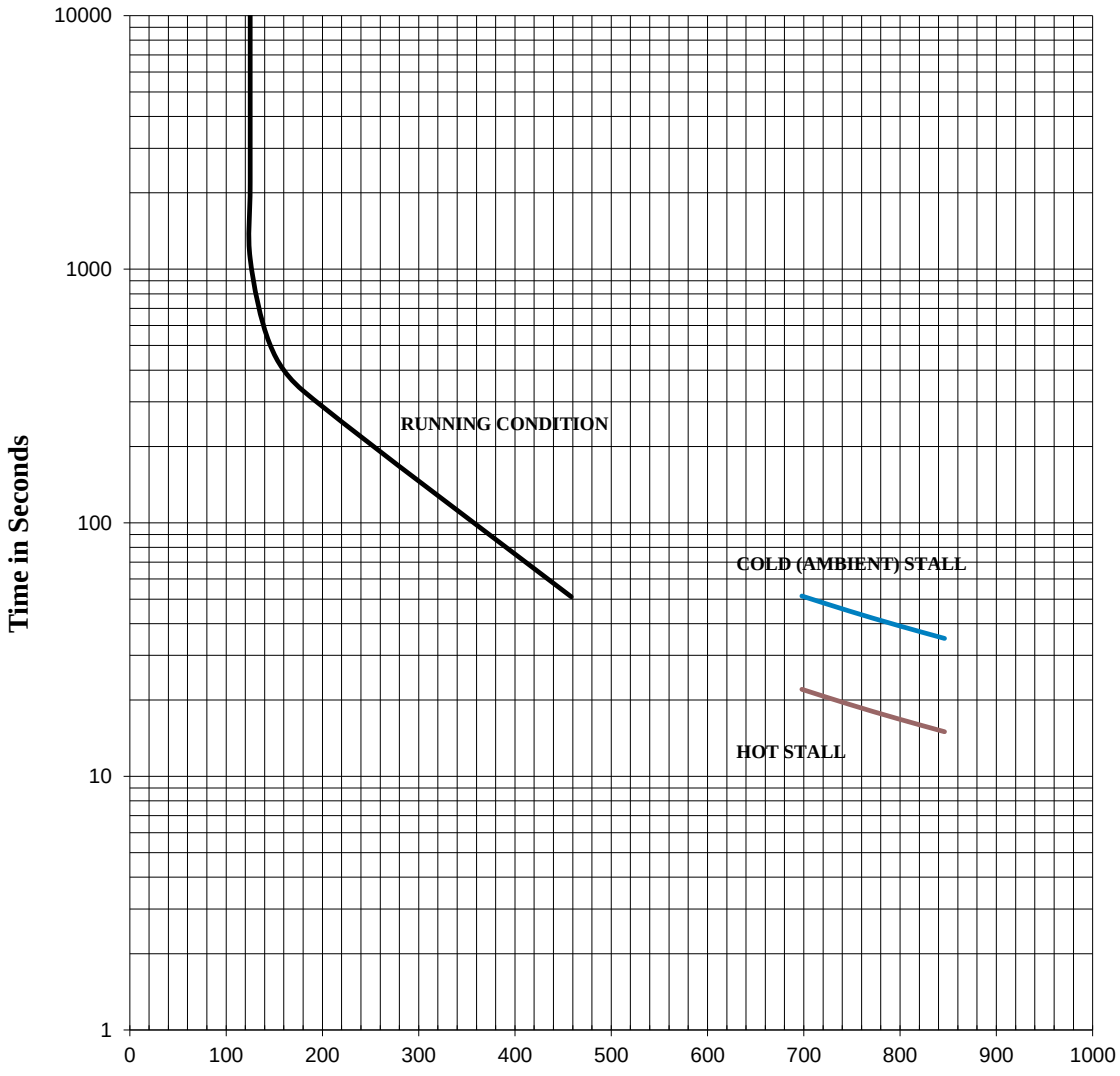
| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

***Design Values (For Reference Only)***

| | | | | | |
|---|---|---|---|---|---|
| ***Model #:*** | Y116SDMV7GS-PL | | | ***FLAmps:*** | 2.6 |
| ***Enclosure:*** | TEFC | ***Voltage:*** | 460 V | ***Frame:*** | 90L |
| ***Pole:*** | 6 | ***Frequency:*** | 3 PH / 60 Hz | ***Ins. Class:*** | F |
| ***HP:*** | 1.5 | ***Rotor Inertia:*** | 0.34 lb-ft² | ***Date:*** | 6/25/2020 |
| ***FLRPM:*** | 1175 | ***Load Inertia:*** | N/A | ***File:*** | GH6Y11 (1.1kW |




***Comments:*** PROJECT -

***D.E.Curve #:*** GH6Y11 (1.1kW

| | |
|---|---|
| ***Prepared by:*** Zichao Xie | ***Checked by:*** |