

ROTATION: CCW  
VIEW FROM: ODE

UNIT: mm

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

B35-FLANGE MOTOR  
OL DRAWING IEC GLOBAL  
3HFN000229  
**TOSHIBA**  
TOSHIBA INTERNATIONAL CORPORATION

TYPE: 2-4-6P - 400V  
FRAME: 90L

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
ND				

**EQP Global SD**  
XT SERIES

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

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	INDEX	MPCF-1033
	SHEET NO.	1 of 1
	ISSUED	7/31/13
	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: 90L	ENCL: TEFC	FLAMPS: 4.2/2.4	FLRPM: 1440
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y114SDMV7GS-PL		kW: 1.1	
NOM. EFF.: 84.1	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 29/16.5	FULL LOAD (lb-ft.): 5.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 275	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 345	

EFFICIENCY	POWER FACTOR
FULL LOAD: 85.0	FULL LOAD: 77.0
3/4 LOAD: 85.4	3/4 LOAD: 71.3
1/2 LOAD: 83.6	1/2 LOAD: 60.2

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:** 10/18/2019

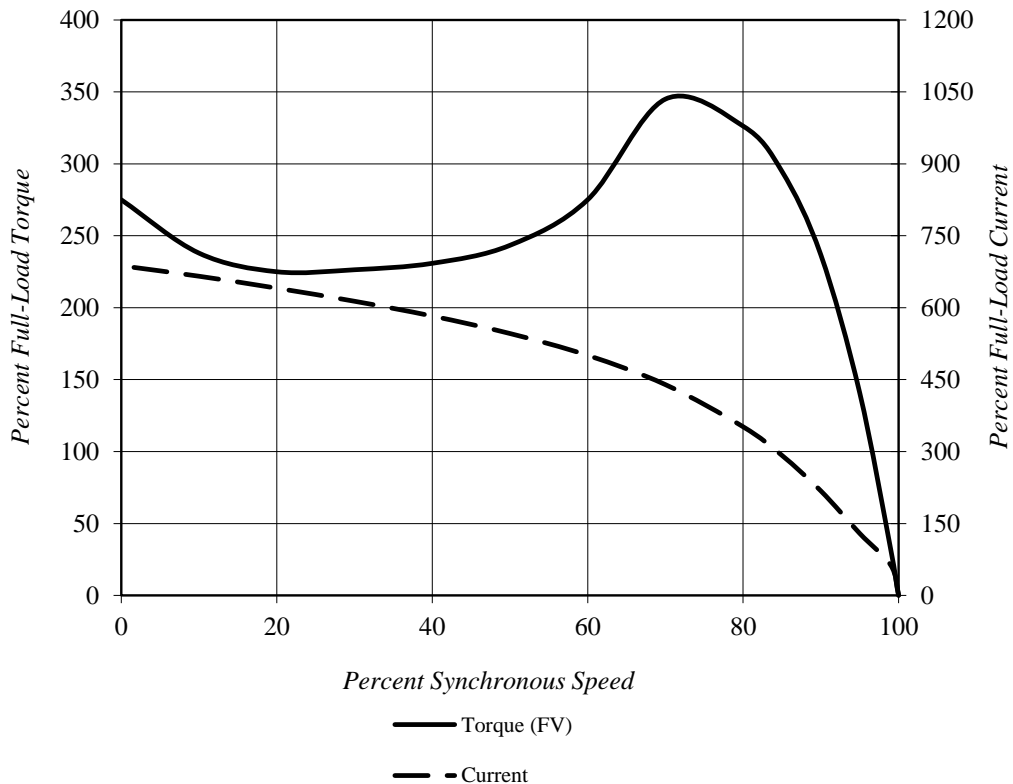
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.2/2.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1440	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)

<b>Locked Rotor Amps:</b>	29/16.5 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	275%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	345%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	5.5 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

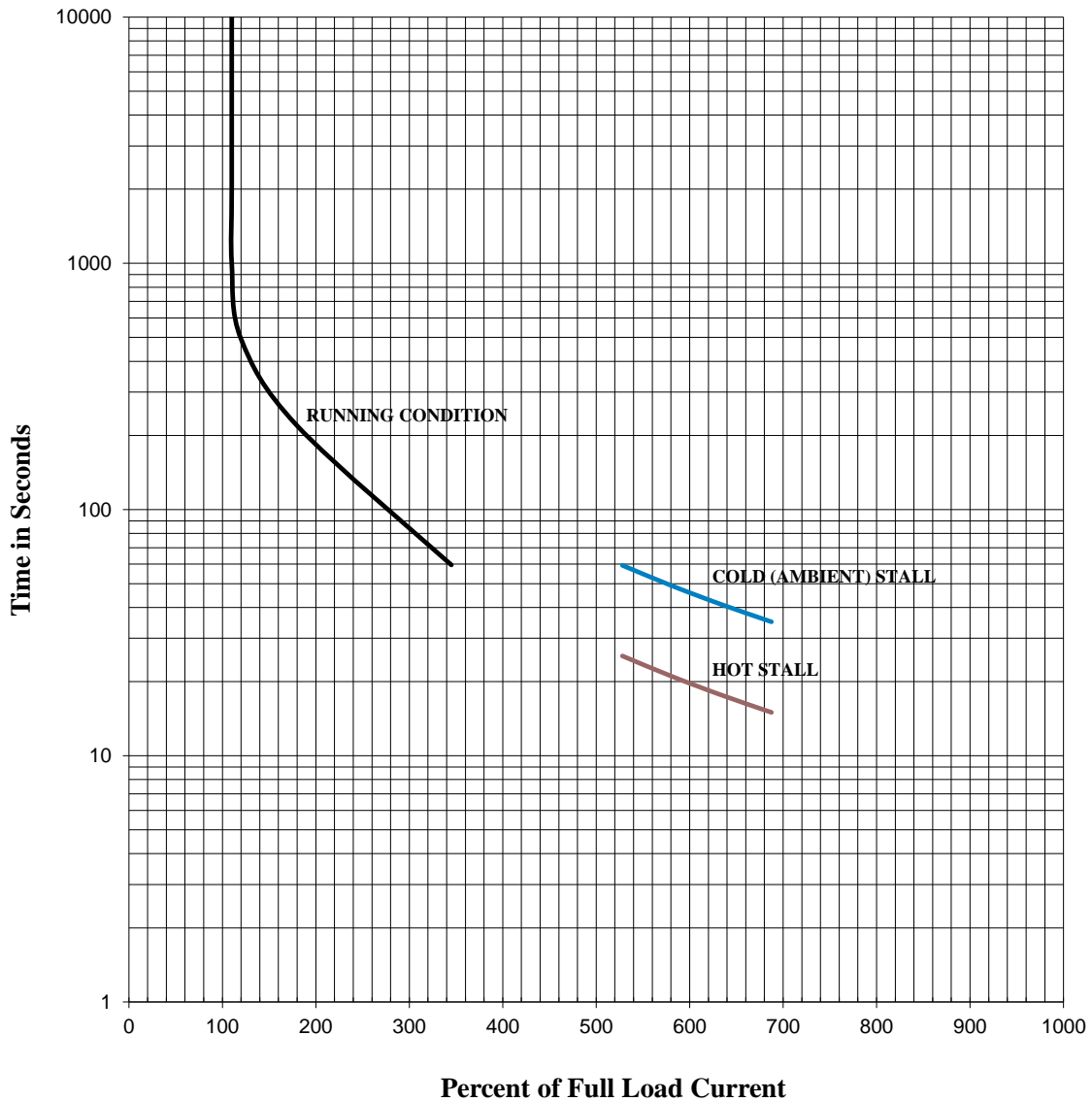
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.2/2.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1440	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

**Checked by:**

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	INDEX	MPCF-1033
	SHEET NO.	1 of 1
	ISSUED	7/31/13
	SUPERSEDES	11/8/96
	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: 90L	ENCL: TEFC	FLAMPS: 4.2/2.4	FLRPM: 1445
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y114SDMV7GS-PL		kW: 1.1	
NOM. EFF.: 84.1	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 30/17.3	FULL LOAD (lb-ft.): 5.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 305	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 370	

EFFICIENCY	POWER FACTOR
FULL LOAD: 85.2	FULL LOAD: 74.5
3/4 LOAD: 85.2	3/4 LOAD: 67.9
1/2 LOAD: 82.7	1/2 LOAD: 56.0

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:** 10/18/2019

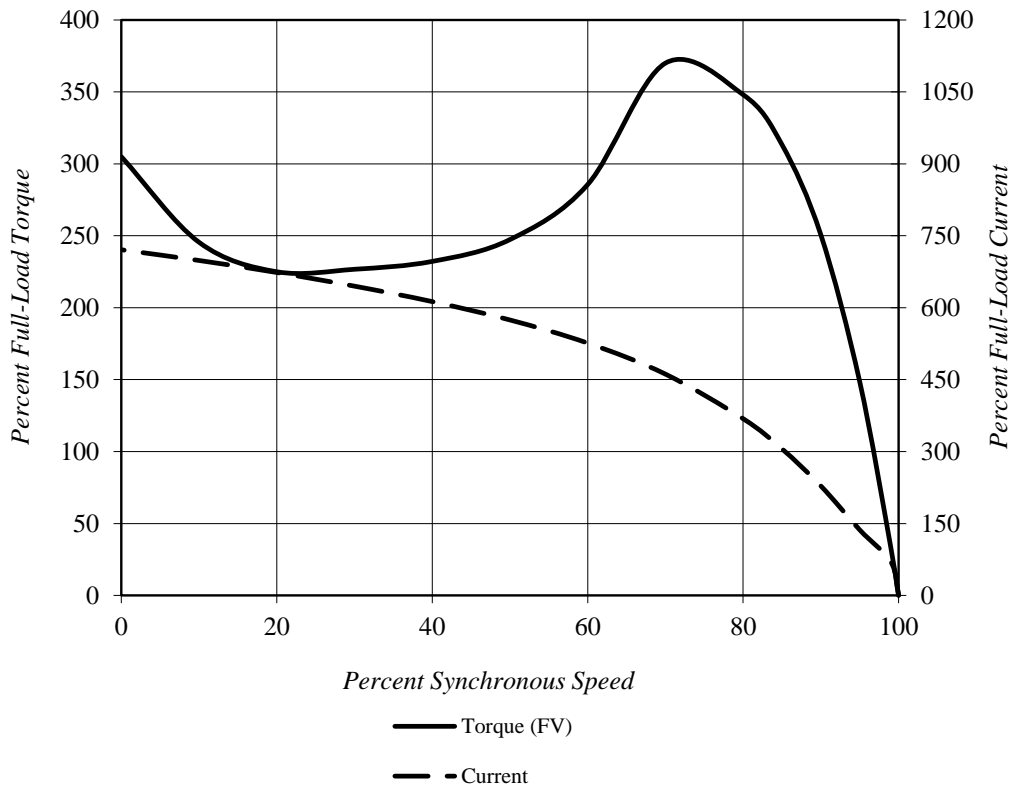
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.2/2.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1445	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)

<b>Locked Rotor Amps:</b>	30/17.3 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	305%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	370%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	5.4 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

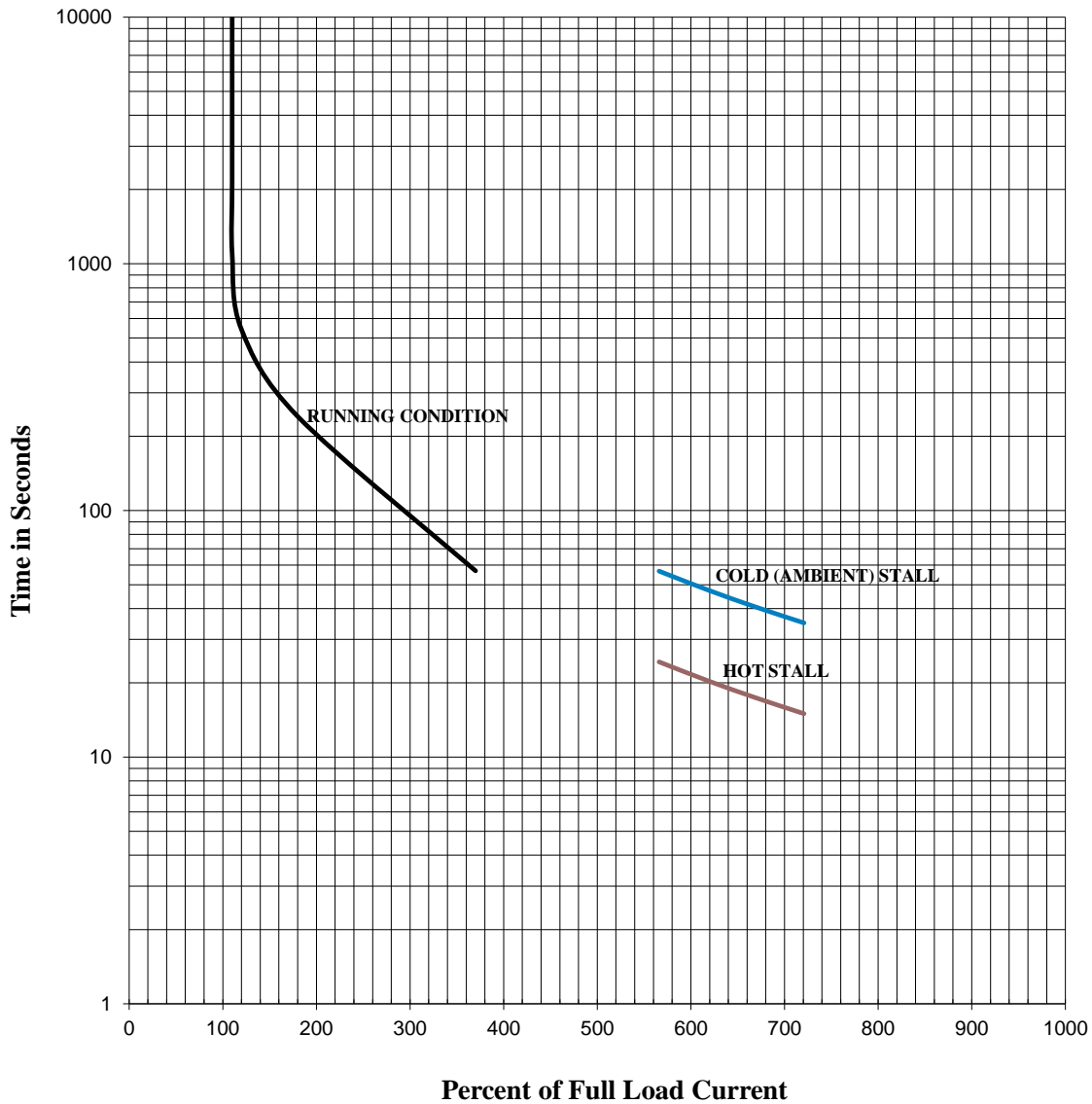
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.2/2.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1445	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

**Checked by:** \_\_\_\_\_

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

**SQUIRREL CAGE INDUCTION MOTOR**  
**PERFORMANCE SPECIFICATIONS**

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
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: 90L	ENCL: TEFC	FLAMPS: 4.3/2.5	FLRPM: 1430
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y114SDMV7GS-PL		kW: 1.1	
NOM. EFF.: 84.1	MIN. EFF.: -	cosØ 0.79	

**AMPERAGE**

LOCKED ROTOR: 27/15.6

**TORQUES**

FULL LOAD (lb-ft.): 5.5  
LOCKED ROTOR (%): 245  
BREAK DOWN (%): 310

**\*\*BEARINGS:**

DRIVE END: REFER TO NP  
OPPOSITE DRIVE END: REFER TO NP

**EFFICIENCY**

FULL LOAD: 84.1  
3/4 LOAD: 85.3  
1/2 LOAD: 84.2

**POWER FACTOR**

FULL LOAD: 79.6  
3/4 LOAD: 75.0  
1/2 LOAD: 65.3

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:** 10/18/2019



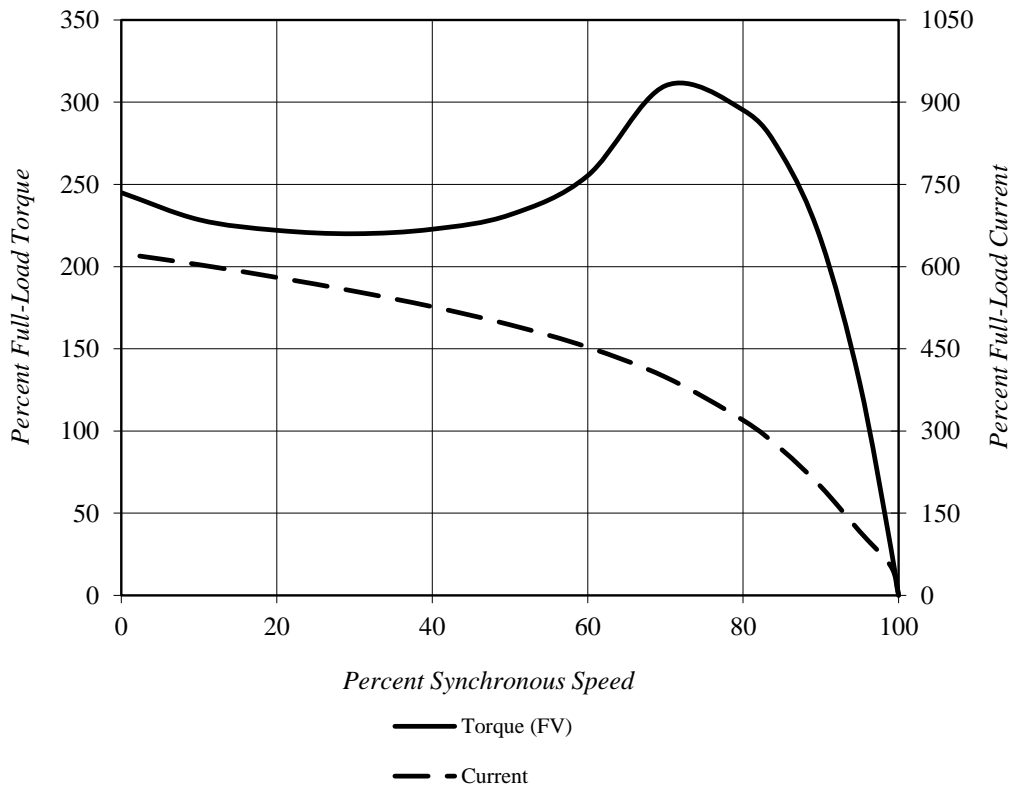
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.3/2.5
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1430	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)

<b>Locked Rotor Amps:</b>	27/15.6 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	245%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	310%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	5.5 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

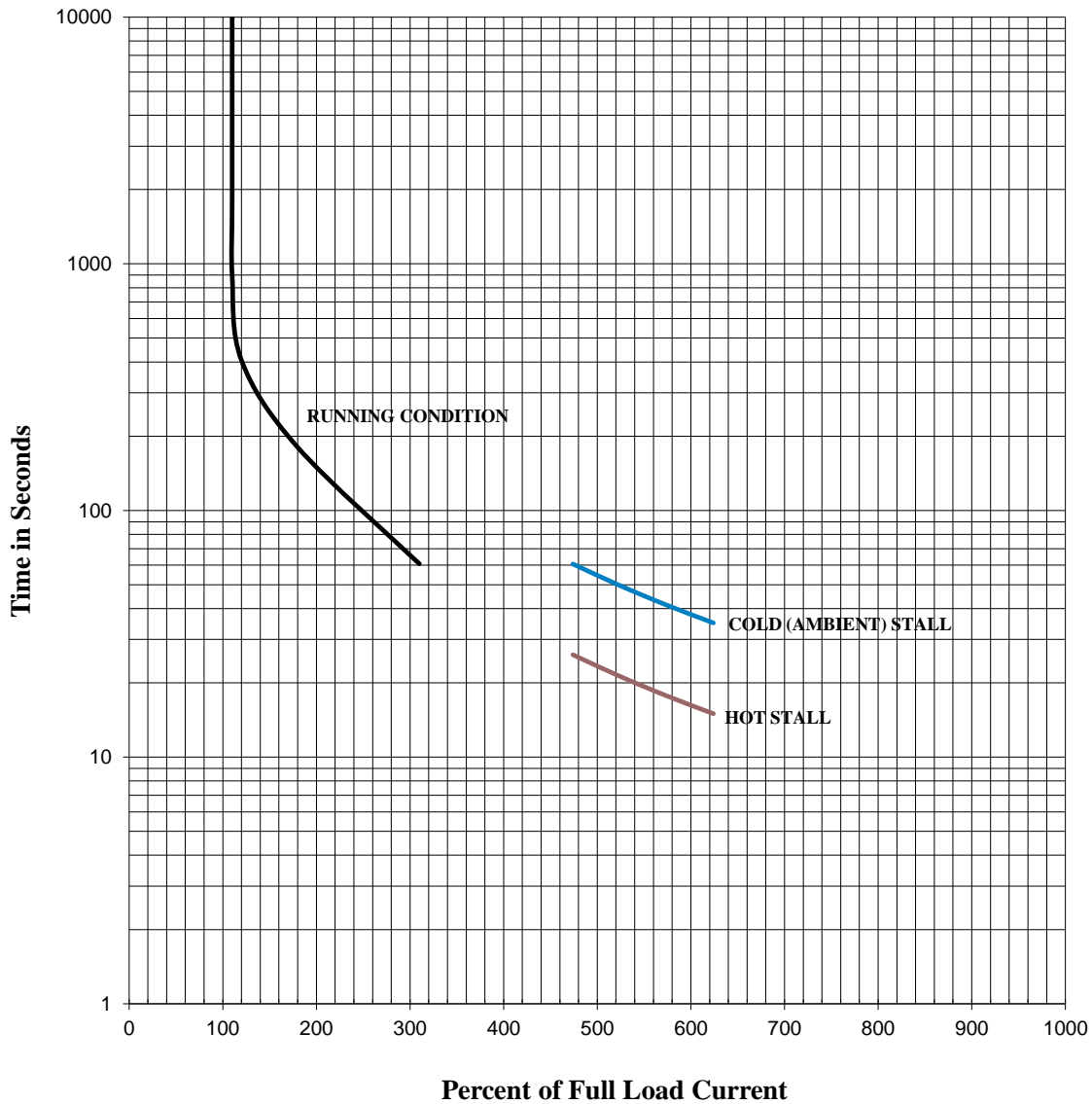
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	4.3/2.5
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.1	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1430	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

**Checked by:**

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	INDEX	MPCF-1033
	SHEET NO.	1 of 1
	ISSUED	7/31/13
	SUPERSEDES	11/8/96
	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 1.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.1	FLRPM: 1750
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: Y114SDMV7GS-PL		kW: 1.1	
NOM. EFF.: 86.5	MIN. EFF.: -	P.F.: 74.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 17.7	FULL LOAD (lb-ft.): 4.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 385	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 370	

EFFICIENCY	POWER FACTOR
FULL LOAD: 87.3	FULL LOAD: 74.1
3/4 LOAD: 86.8	3/4 LOAD: 68.2
1/2 LOAD: 84.1	1/2 LOAD: 57.2

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).

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**DATE:** 10/18/2019

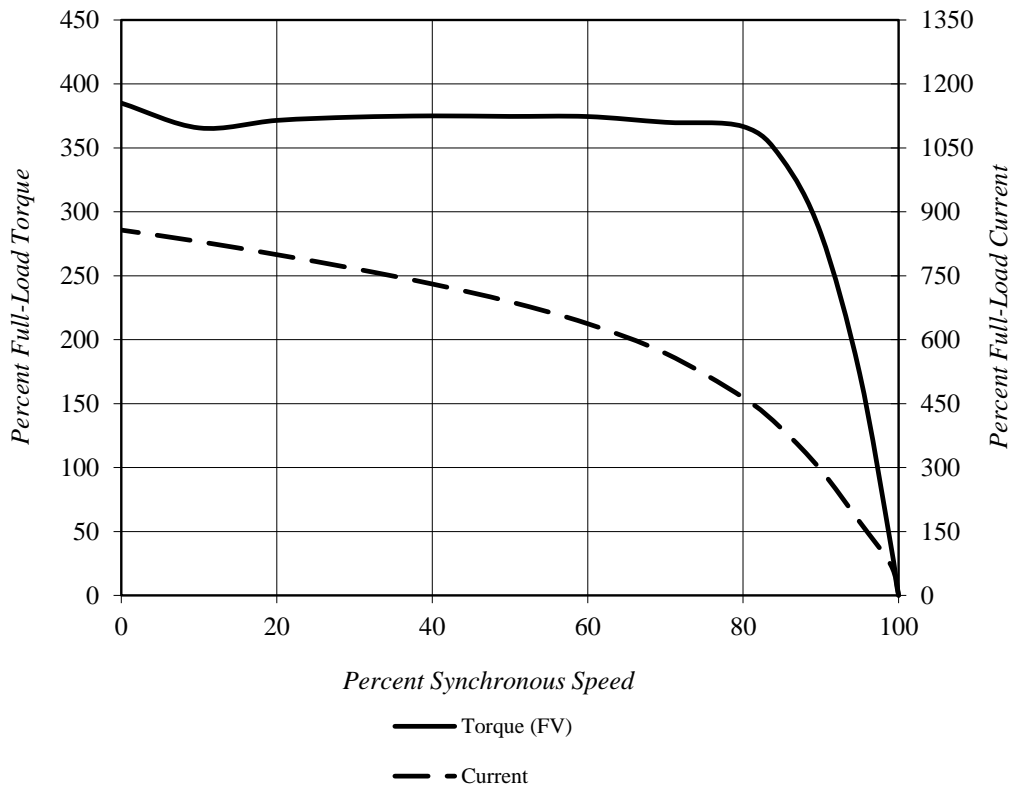
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	1.5	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1750	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)

<b>Locked Rotor Amps:</b>	17.7 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	385%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	370%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	4.5 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

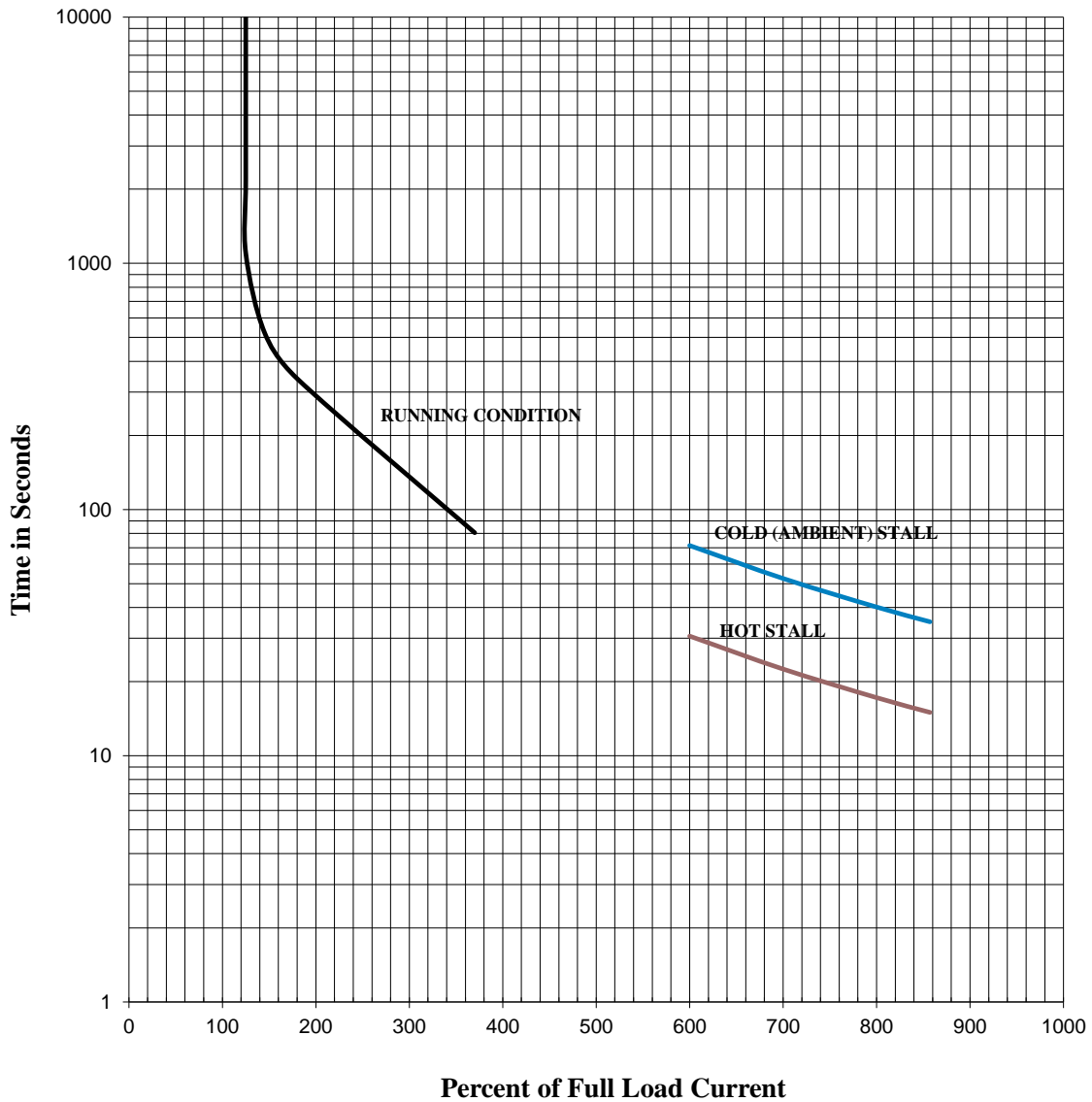
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y114SDMV7GS-PL			<b>FLAmps:</b>	2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	1.5	<b>Rotor Inertia:</b>	0.13 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1750	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y11 (1.1kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4Y11 (1.1kW)

**Prepared by:** Zichao Xie

**Checked by:**