

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: 5.9/3.4	FLRPM: 1440
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y154SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 85.3	MIN. EFF.: -	cosØ 0.76	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 38/22	FULL LOAD (lb-ft.): 7.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 275	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 340	

EFFICIENCY	POWER FACTOR
FULL LOAD: 85.0	FULL LOAD: 76.0
3/4 LOAD: 85.6	3/4 LOAD: 70.0
1/2 LOAD: 83.9	1/2 LOAD: 58.6

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

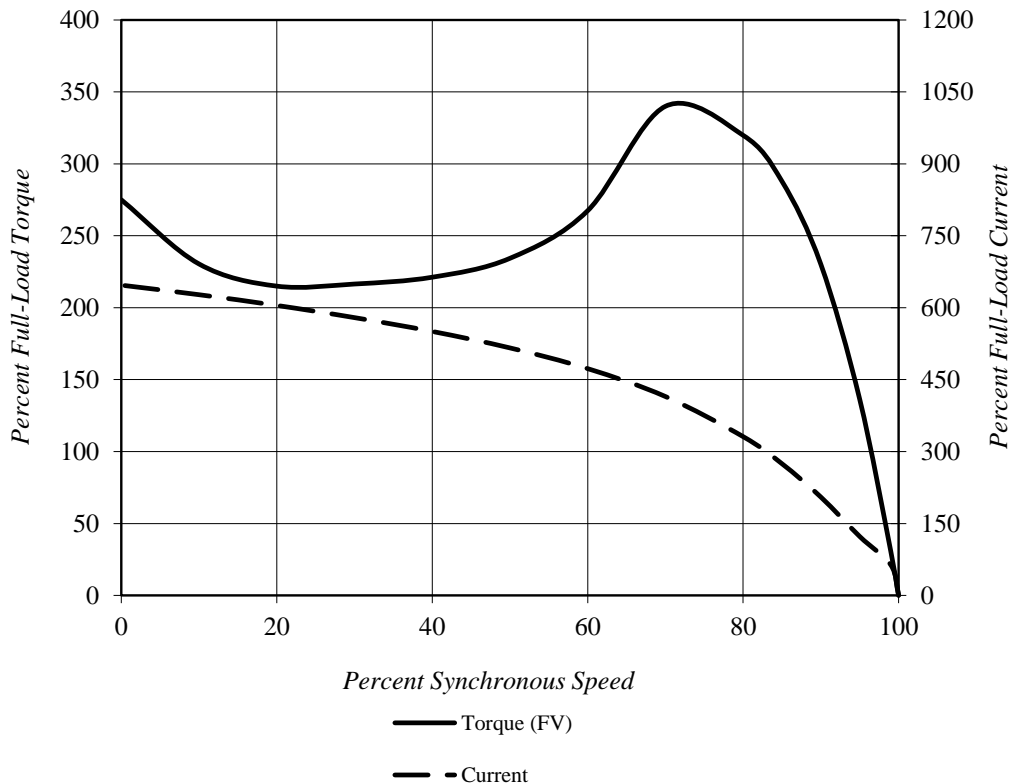
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1440	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	38/22 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	275%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	340%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	7.3 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**Prepared by:** Zichao Xie

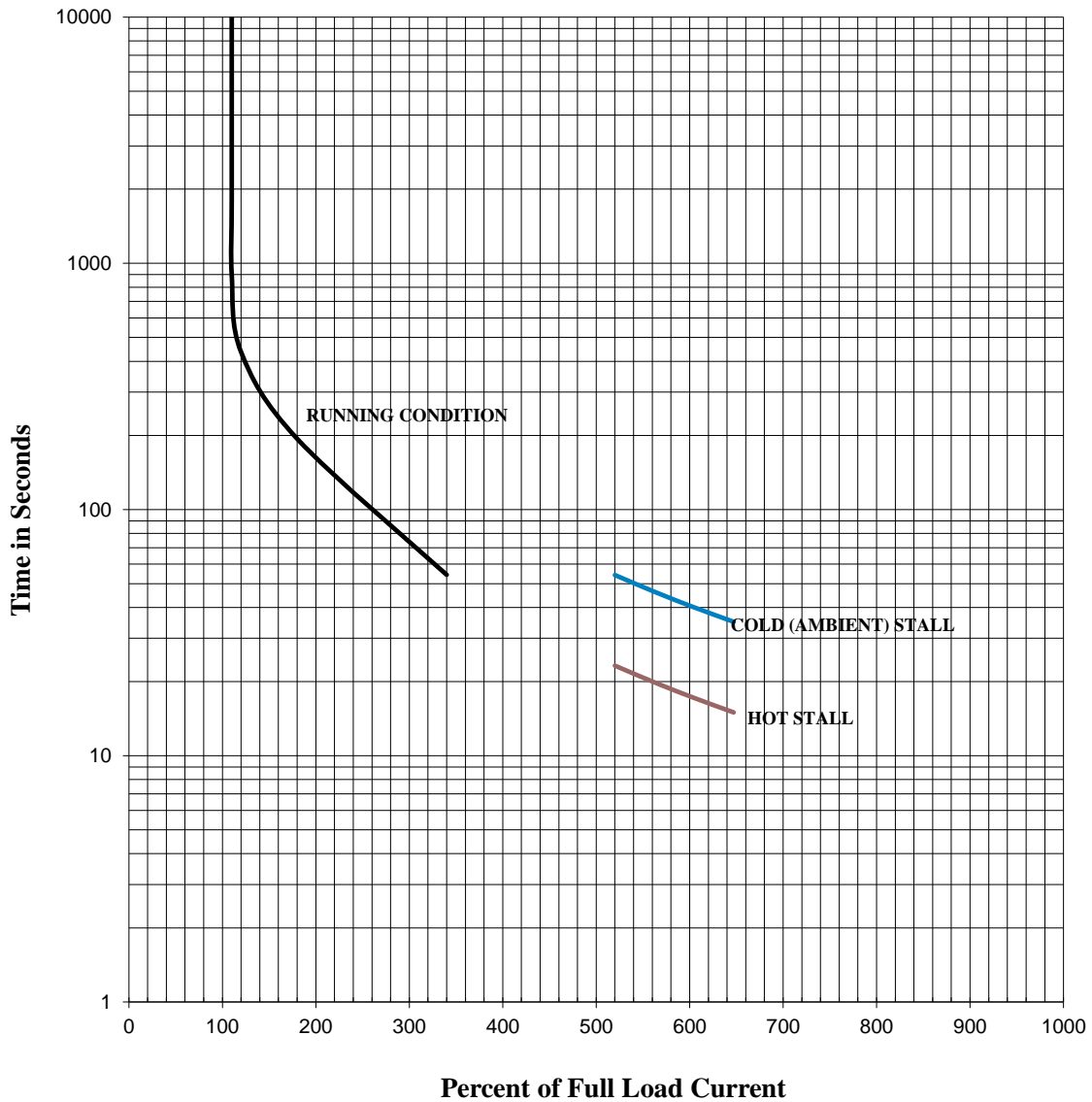
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1440	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E. Curve #:** GH4Y15 (1.5kW)

**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: 5.9/3.4	FLRPM: 1445
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y154SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 85.3	MIN. EFF.: -	cosØ 0.72	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 40/23	FULL LOAD (lb-ft.): 7.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 305	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 360	

EFFICIENCY	POWER FACTOR
FULL LOAD: 85.2	FULL LOAD: 72.9
3/4 LOAD: 85.3	3/4 LOAD: 66.0
1/2 LOAD: 83.8	1/2 LOAD: 57.4

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

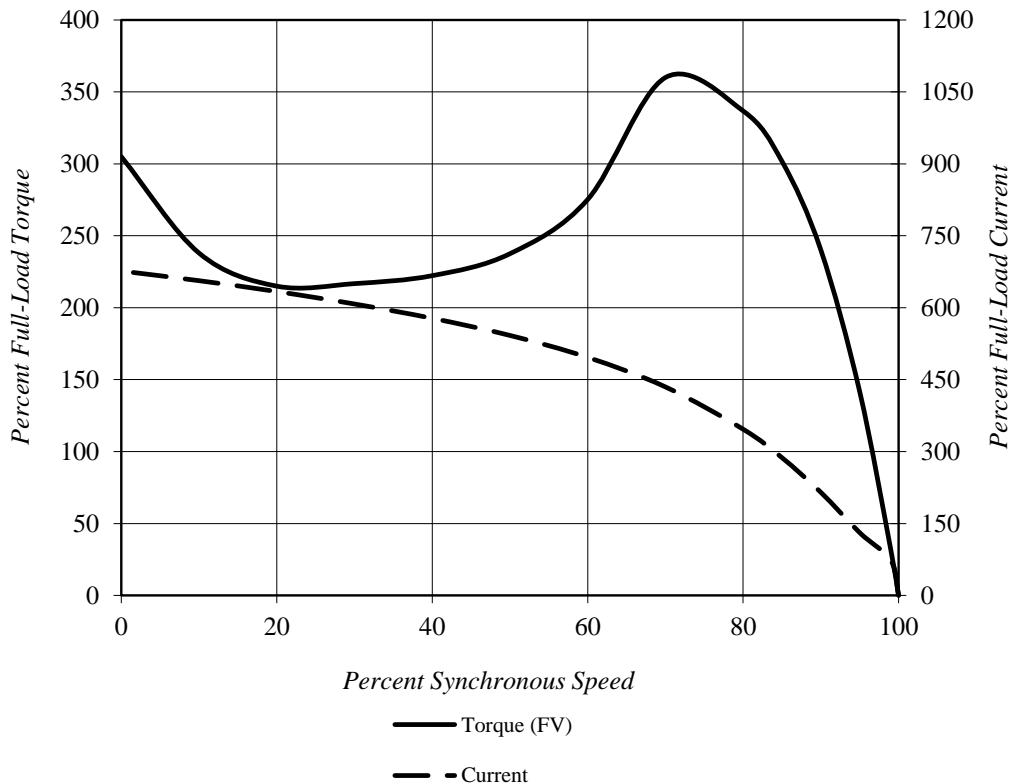
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1445	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	40/23 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	305%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	360%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	7.3 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**Prepared by:** Zichao Xie

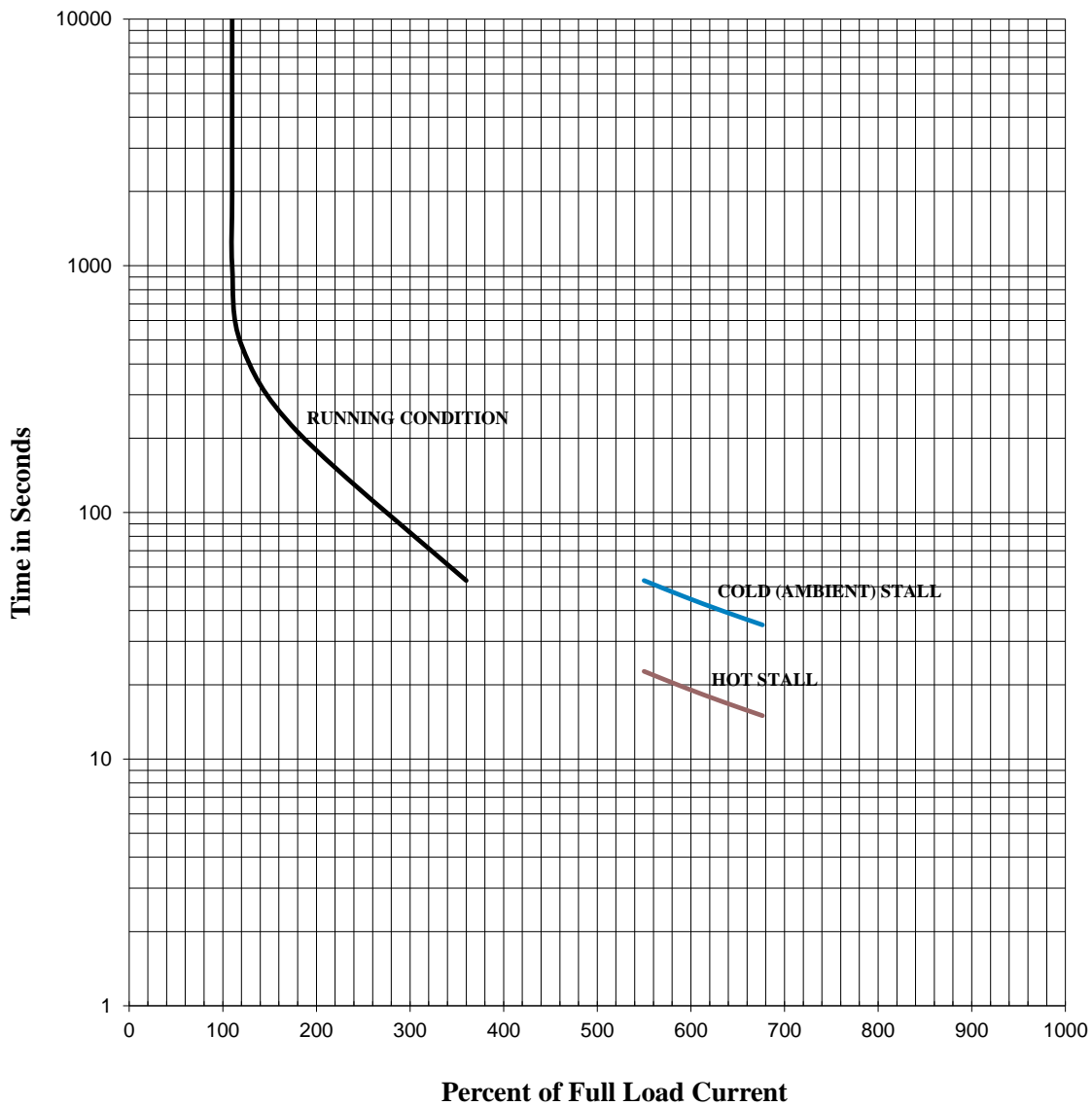
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1445	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E. Curve #:** GH4Y15 (1.5kW)

**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: 5.9/3.4	FLRPM: 1430
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y154SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 85.3	MIN. EFF.: -	cosØ 0.79	

**AMPERAGE**

LOCKED ROTOR: 36/21

**TORQUES**

FULL LOAD (lb-ft.): 7.3  
 LOCKED ROTOR (%): 245  
 BREAK DOWN (%): 310

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 84.3  
 3/4 LOAD: 85.7  
 1/2 LOAD: 84.8

**POWER FACTOR**

FULL LOAD: 79.2  
 3/4 LOAD: 74.5  
 1/2 LOAD: 64.5

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



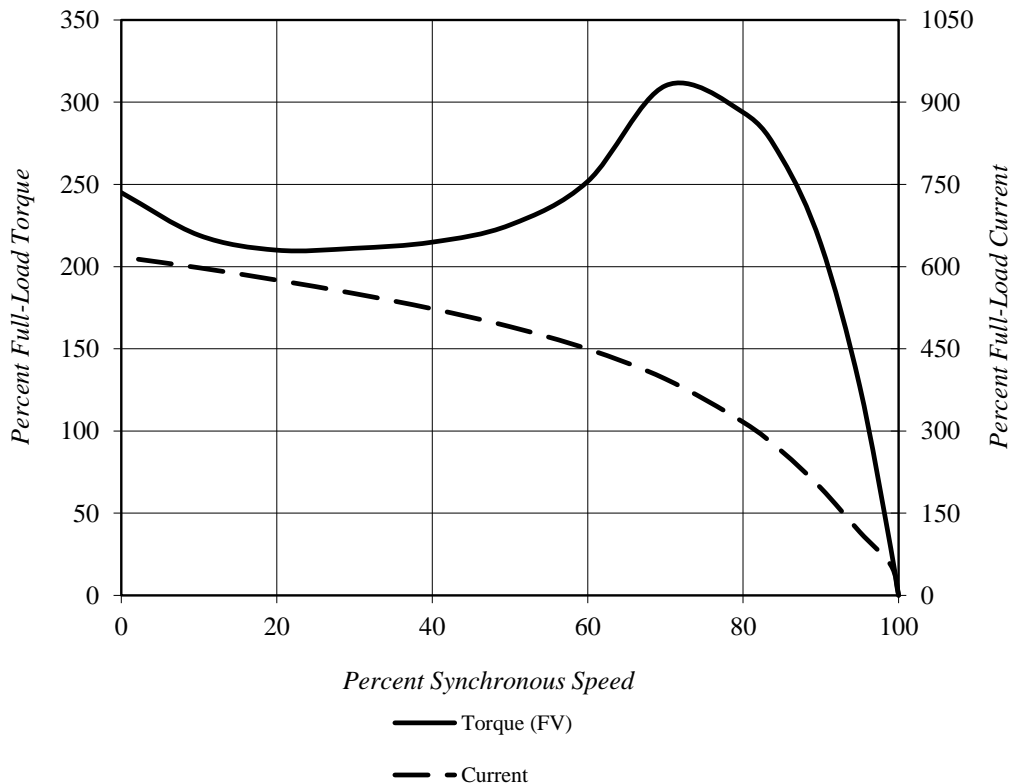
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1430	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	36/21 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>	7.3 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**Prepared by:** Zichao Xie

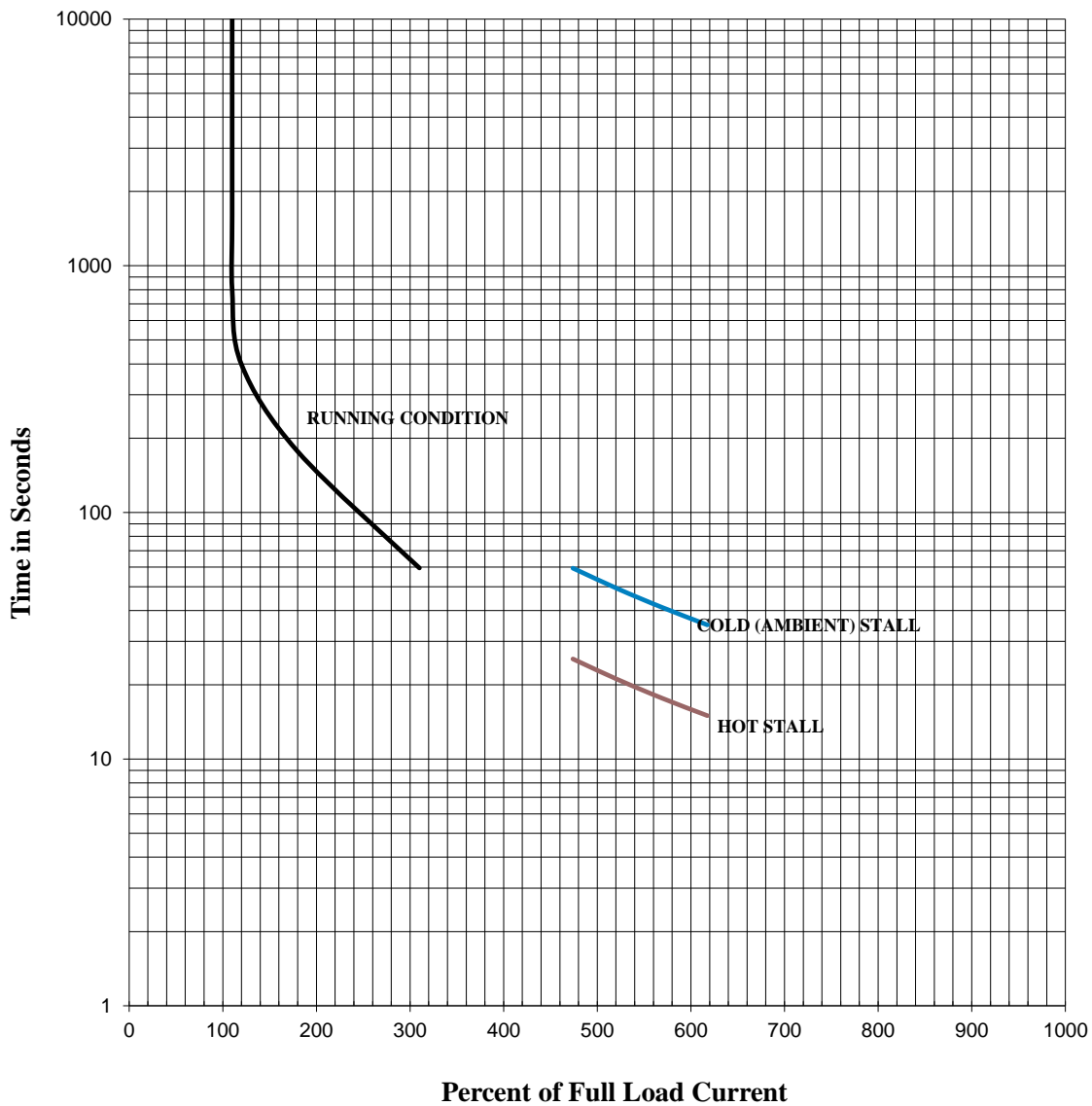
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	5.9/3.4
<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>	1.5	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1430	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**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.: 2	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.9	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.: Y154SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 86.5	MIN. EFF.: -	P.F.: 73.5	

**AMPERAGE**

LOCKED ROTOR: 24

**TORQUES**

FULL LOAD (lb-ft.): 6.0  
LOCKED ROTOR (%): 385  
BREAK DOWN (%): 365

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 87.6  
3/4 LOAD: 87.3  
1/2 LOAD: 84.8

**POWER FACTOR**

FULL LOAD: 73.5  
3/4 LOAD: 67.4  
1/2 LOAD: 56.1

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:** 10/18/2019

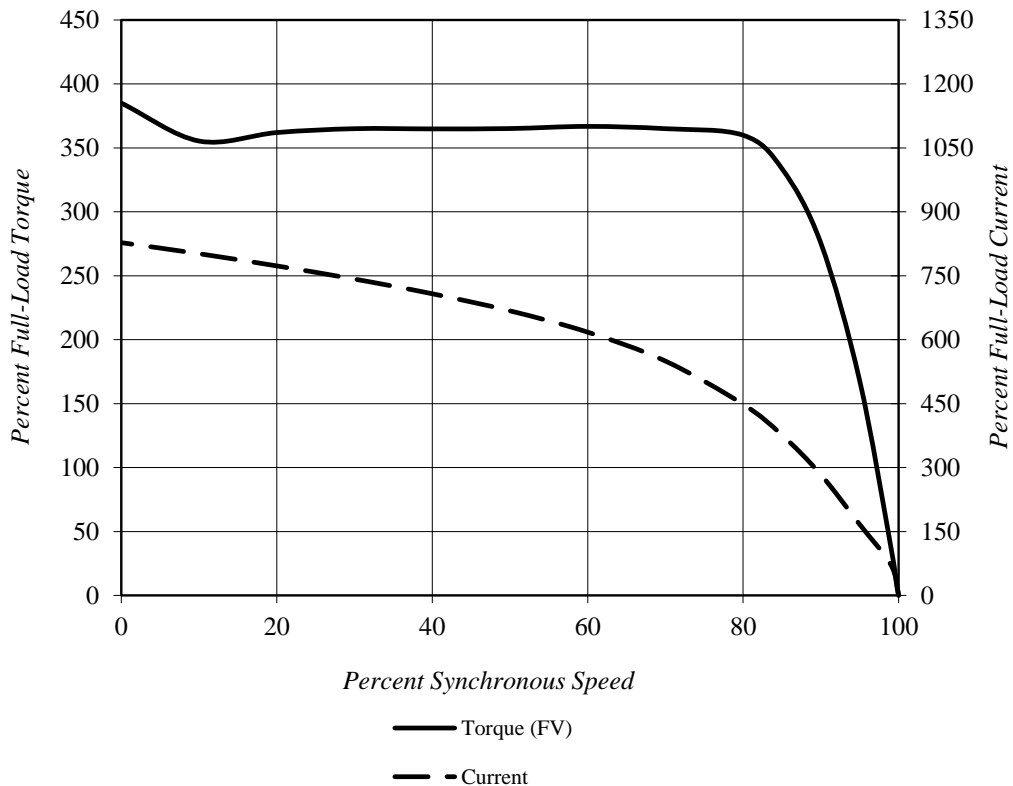
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	2.9
<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>	2	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1750	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	24 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	385%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	365%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	6 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**Prepared by:** Zichao Xie

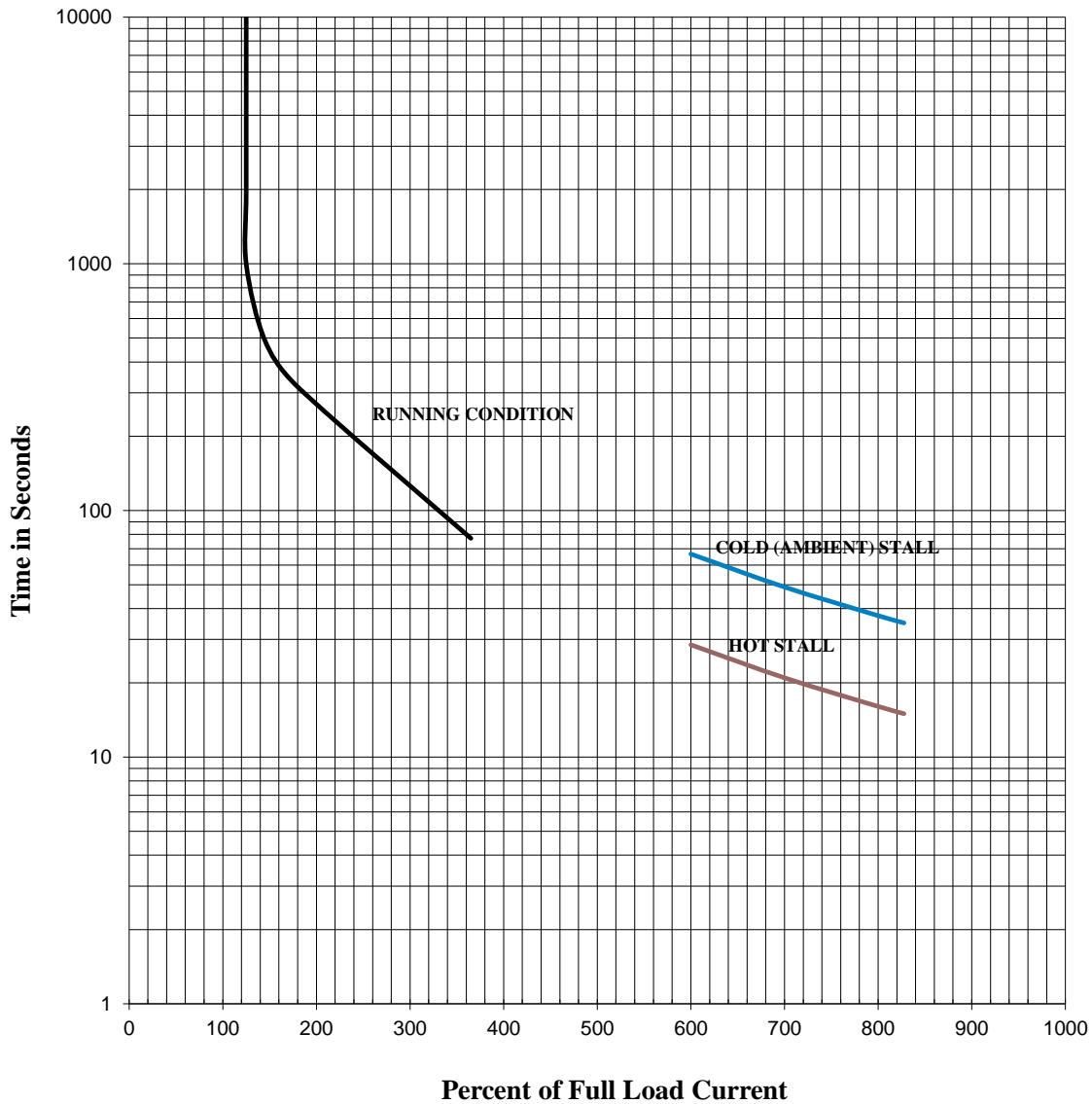
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y154SDMV7GS-PL			<b>FLAmps:</b>	2.9
<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>	2	<b>Rotor Inertia:</b>	0.15 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1750	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y15 (1.5kW)



**Comments:** PROJECT -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D.E.Curve #:** GH4Y15 (1.5kW)

**Prepared by:** Zichao Xie

**Checked by:**