


ROTATION:  
 CCW  
 VIEW FROM:  
 OS

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.

B14-FLANGE MOTOR DL DRAWING IEC GLOBAL	TYPE: 2-4P - FRAME: 112M	TOLERANCES 400V $\pm 2.0$ X. $\pm 2.0$ X.X $\pm 0.5$ X.XX $\pm 0.1$											
3HFN000316		MAXIMUM MOTOR WEIGHT 86 lbs. 39 kgs.											
<b>TOSHIBA</b> TOSHIBA INTERNATIONAL CORPORATION			DRAWN BY: HIEN NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/ind <table border="1" data-bbox="924 1458 1640 1490"> <thead> <tr> <th>NO</th> <th>REVISION</th> <th>DRAWN BY</th> <th>DATE</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO	REVISION	DRAWN BY	DATE	CHECK					
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**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: 230/400	3 PH / 50 Hz	S. RPM: 1500
FRAME: 112M	ENCL: TEFC	FLAMPS: 14.4/8.3	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7KS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.77	

**AMPERAGE**

LOCKED ROTOR: 128/74

**TORQUES**

FULL LOAD (lb-ft.): 19.4  
 LOCKED ROTOR (%): 365  
 BREAK DOWN (%): 420

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 89.9  
 3/4 LOAD: 89.9  
 1/2 LOAD: 88.2

**POWER FACTOR**

FULL LOAD: 77.4  
 3/4 LOAD: 71.8  
 1/2 LOAD: 60.6

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

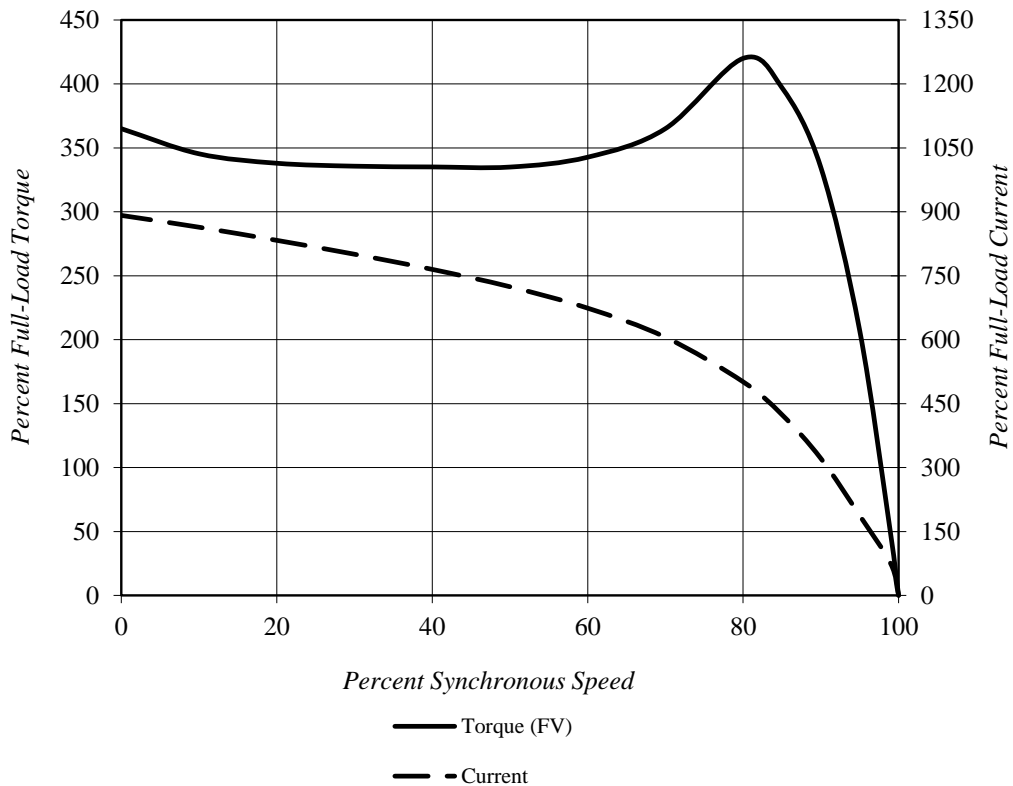
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.4/8.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1460	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)

<b>Locked Rotor Amps:</b>	128/74 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	365%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	420%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	19.4 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

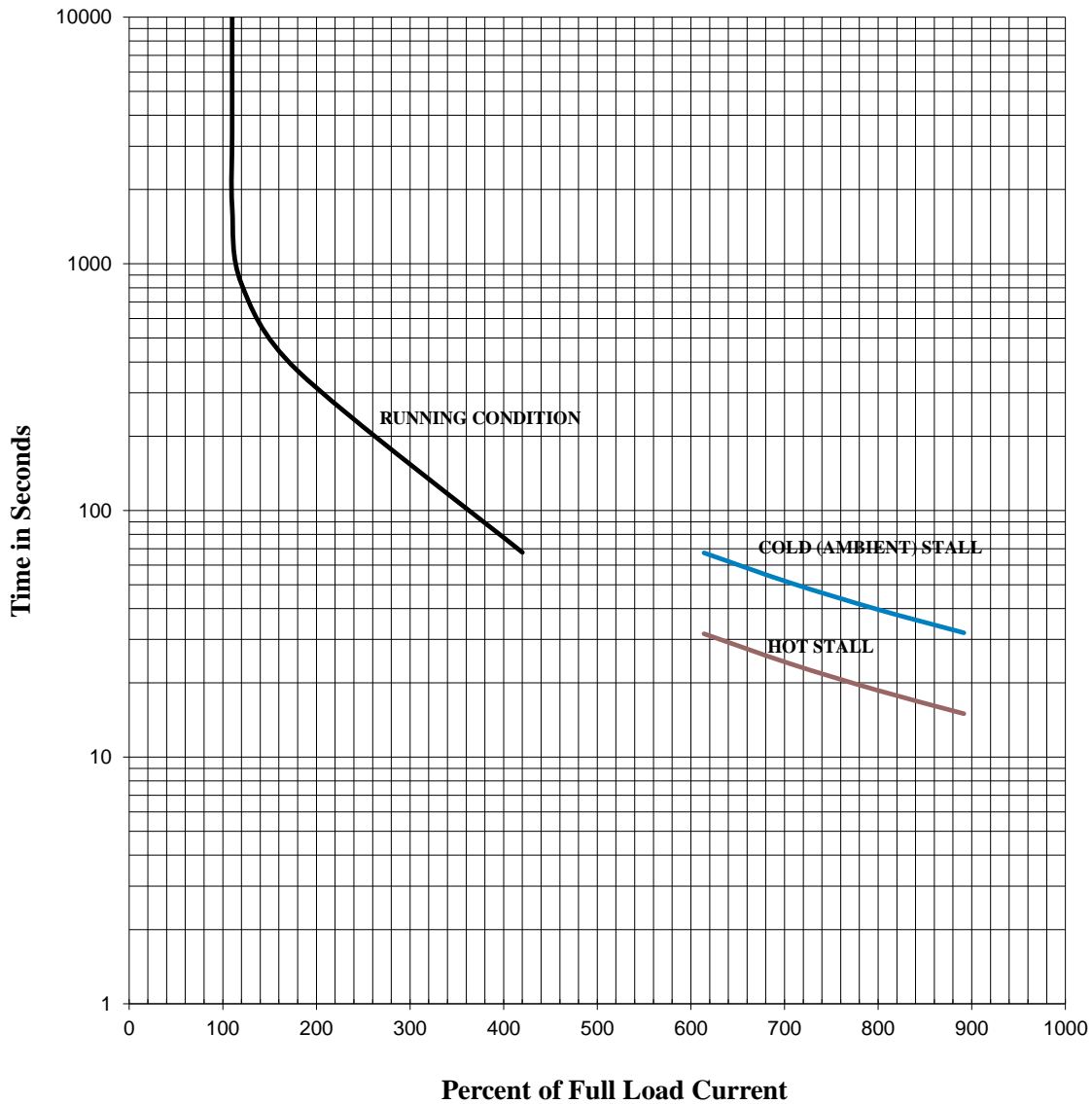
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.4/8.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1460	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)



**Comments:** PROJECT - \_\_\_\_\_  
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**D.E. Curve #:** GH4004 (4kW)

**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: 240/415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 112M	ENCL: TEFC	FLAMPS: 14.4/8.3	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7KS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.74	

**AMPERAGE**

LOCKED ROTOR: 133/77

**TORQUES**

FULL LOAD (lb-ft.): 19.4  
 LOCKED ROTOR (%): 400  
 BREAK DOWN (%): 450

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 90.2  
 3/4 LOAD: 89.9  
 1/2 LOAD: 88.2

**POWER FACTOR**

FULL LOAD: 74.5  
 3/4 LOAD: 67.9  
 1/2 LOAD: 59.7

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

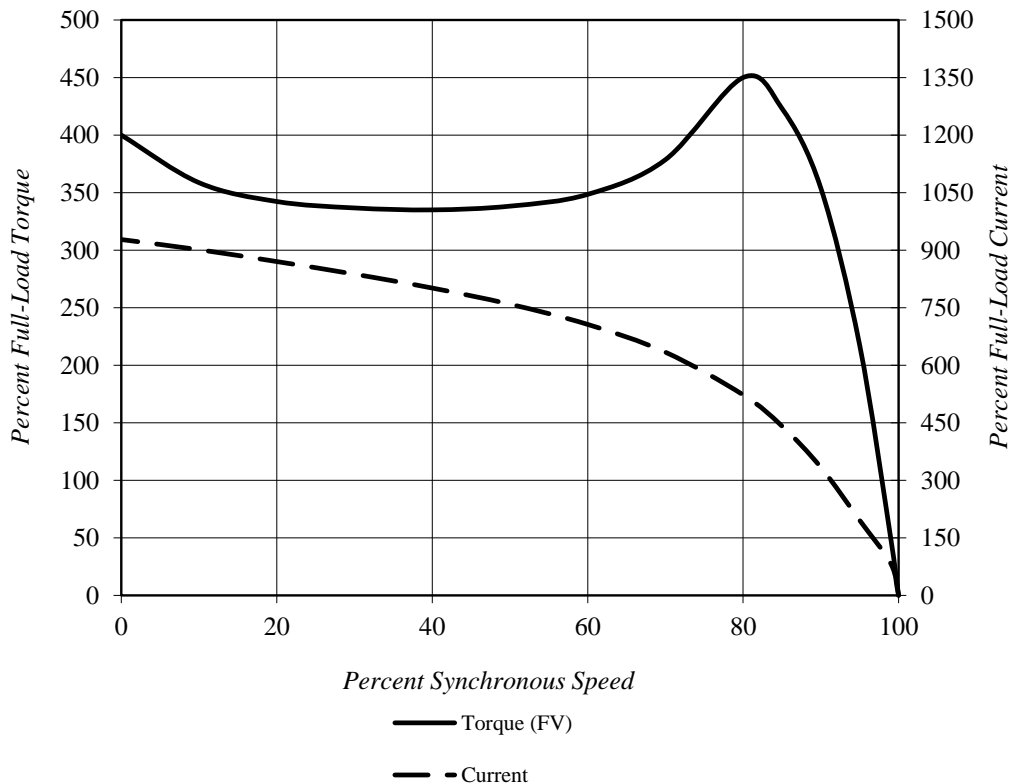
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.4/8.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1460	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)

<b>Locked Rotor Amps:</b>	133/77 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	400%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	450%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	19.4 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

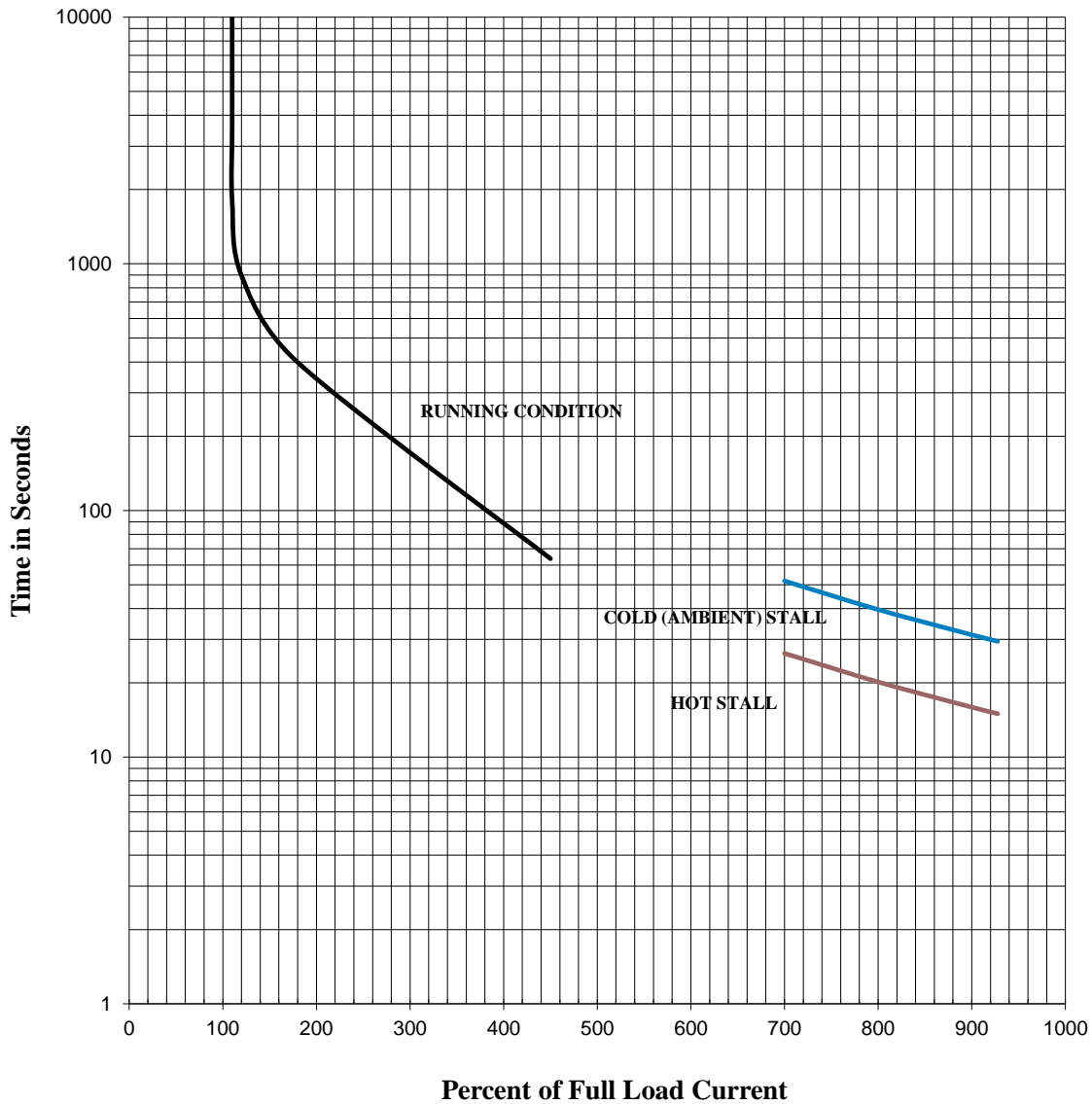
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.4/8.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1460	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E.Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

**Checked by:**

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

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

INDEX	MPCF-1033
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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: 112M	ENCL: TEFC	FLAMPS: 14.5/8.4	FLRPM: 1455
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7KS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.80	

**AMPERAGE**

LOCKED ROTOR: 120/69

**TORQUES**

FULL LOAD (lb-ft.): 19.5  
 LOCKED ROTOR (%): 320  
 BREAK DOWN (%): 380

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 89.5  
 3/4 LOAD: 89.8  
 1/2 LOAD: 88.6

**POWER FACTOR**

FULL LOAD: 80.5  
 3/4 LOAD: 76.3  
 1/2 LOAD: 66.9

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:** 10/18/2019



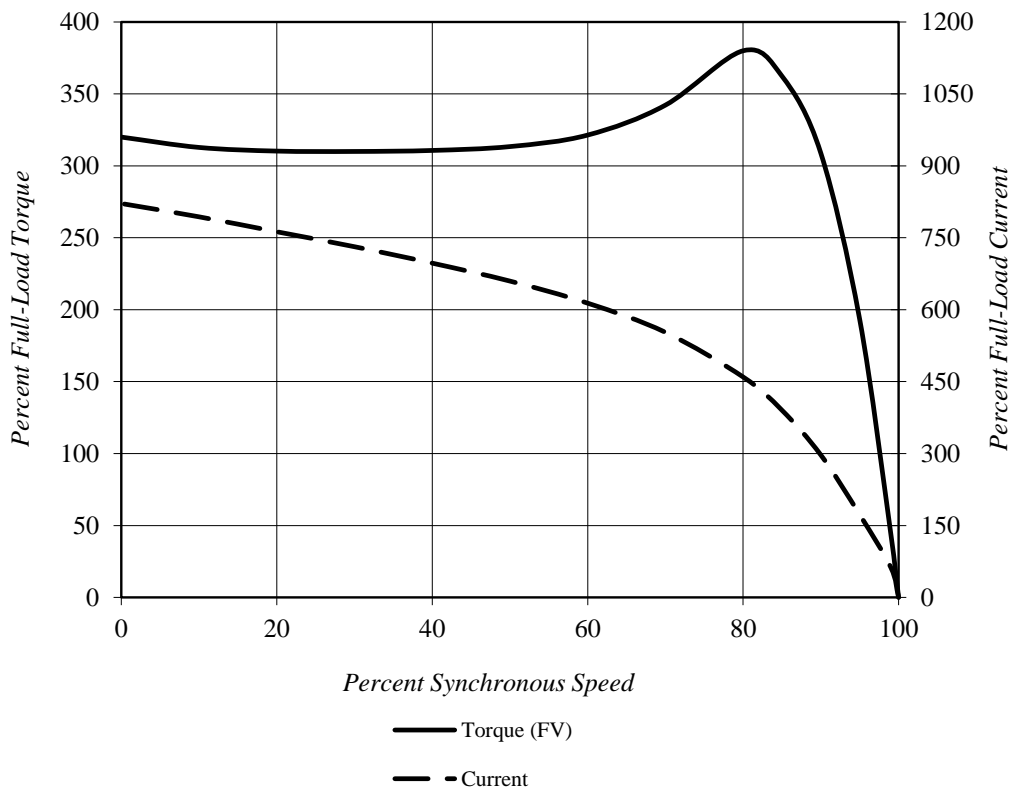
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.5/8.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1455	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)

<b>Locked Rotor Amps:</b>	120/69 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	320%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	380%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	19.5 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

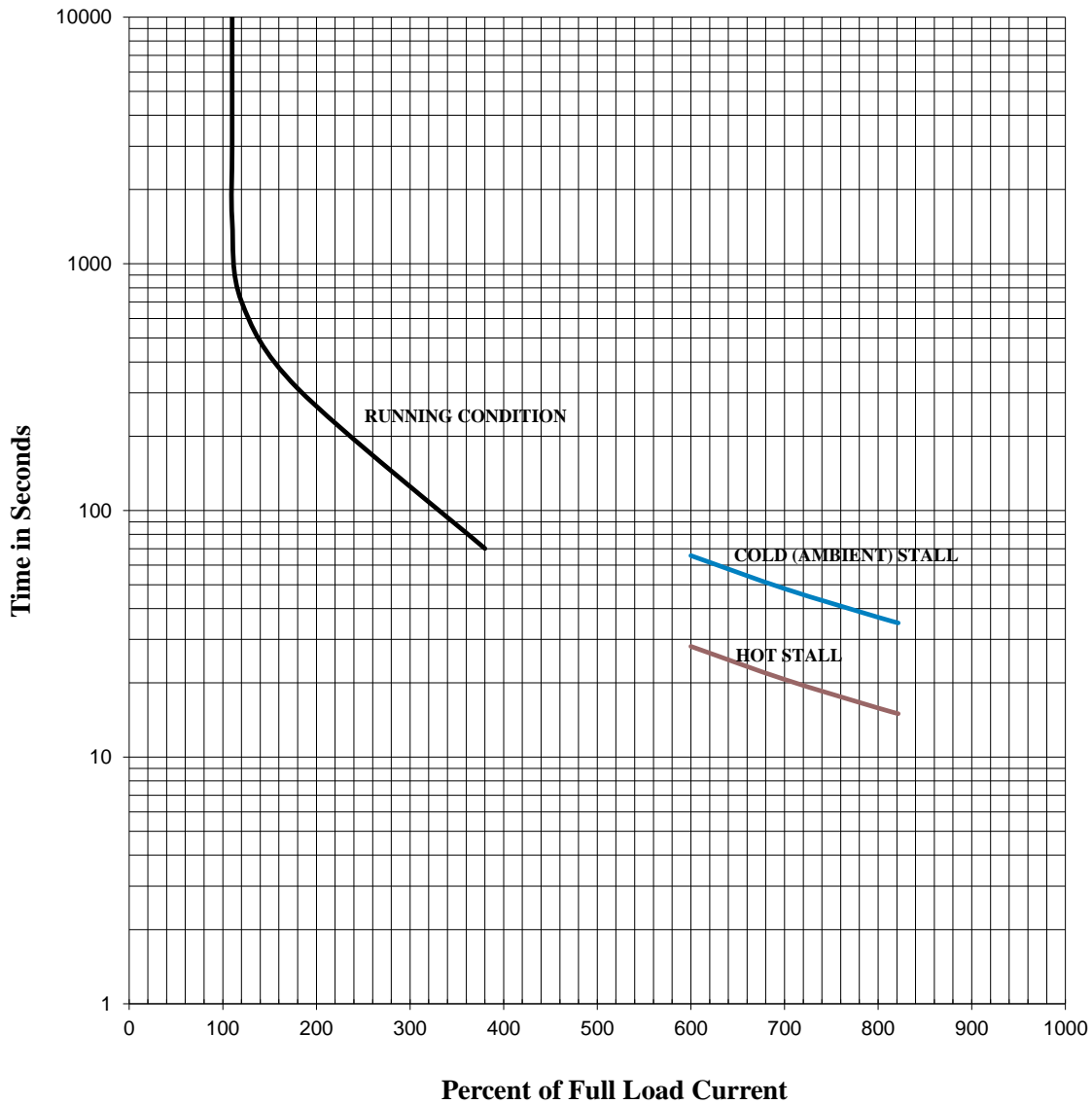
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	14.5/8.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1455	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** GH4004 (4kW)

**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.: 5.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 112M	ENCL: TEFC	FLAMPS: 7.3	FLRPM: 1765
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: 0044SDMV7KS-PL		kW: 4	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 75.5	

**AMPERAGE**

LOCKED ROTOR: 75

**TORQUES**

FULL LOAD (lb-ft.): 16.0  
LOCKED ROTOR (%): 445  
BREAK DOWN (%): 480

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 91.3  
3/4 LOAD: 90.7  
1/2 LOAD: 88.4

**POWER FACTOR**

FULL LOAD: 75.6  
3/4 LOAD: 69.9  
1/2 LOAD: 58.8

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

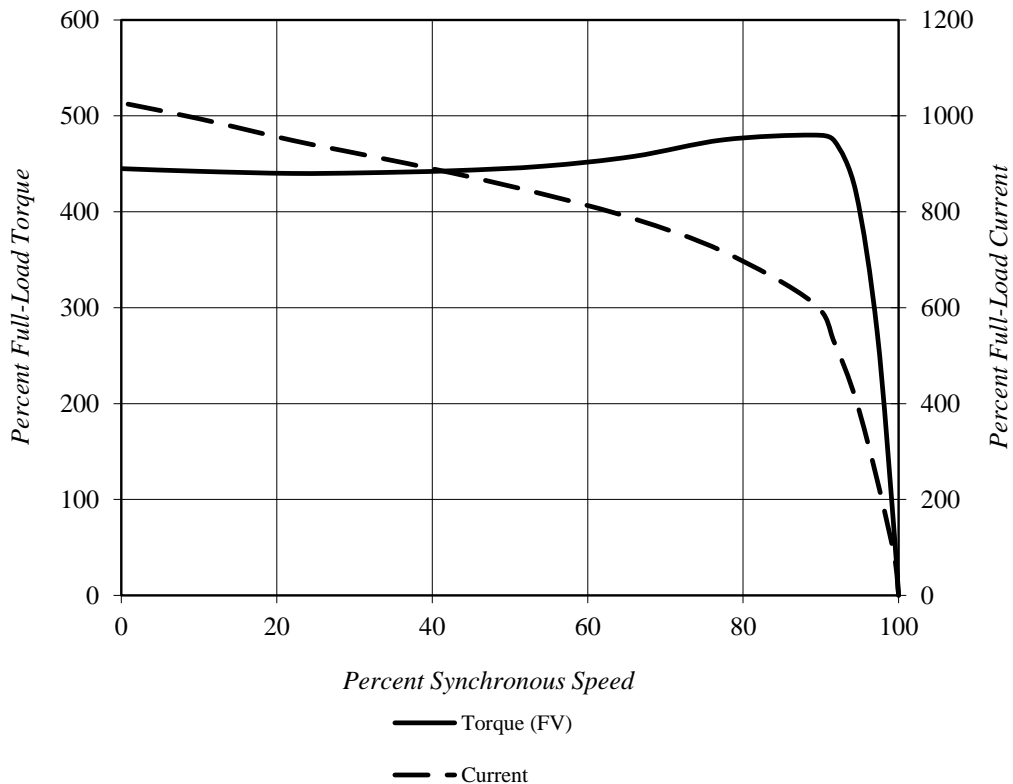
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	7.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	5.5	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1765	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)

<b>Locked Rotor Amps:</b>	75 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	445%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	480%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	16 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

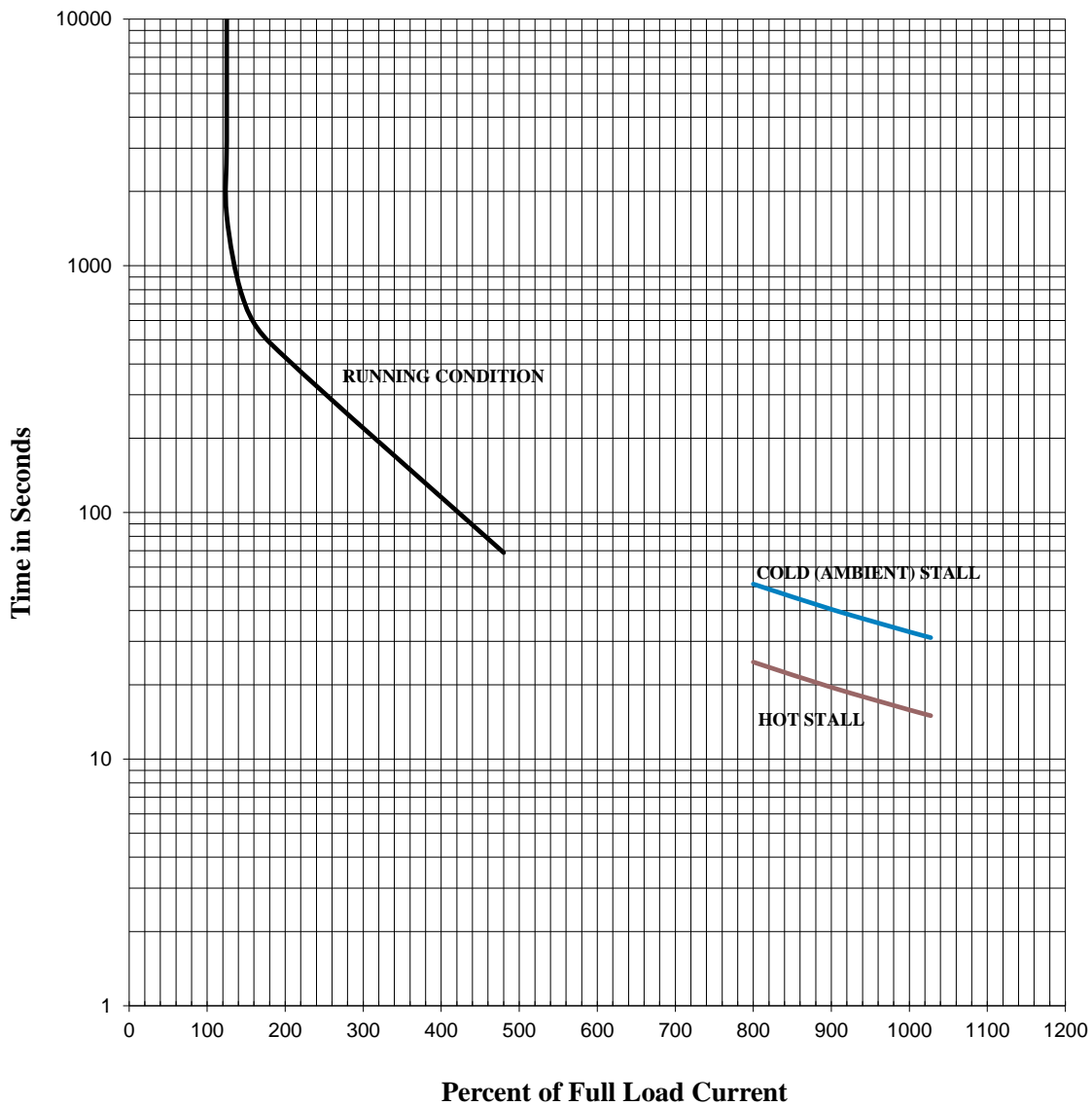
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# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0044SDMV7KS-PL			<b>FLAmps:</b>	7.3
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	112M
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	5.5	<b>Rotor Inertia:</b>	0.57 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1765	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4004 (4kW)



**Comments:** PROJECT - \_\_\_\_\_  
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**D.E. Curve #:** GH4004 (4kW)

**Prepared by:** Zichao Xie

**Checked by:**