

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.

B3-FOOT MOUNTED MOTOR OL DRAWING IEC GLOBAL	TYPE: 2-4-6P - 400V
	FRAME: 132M
3HFN000177	
TOSHIBA	
TOSHIBA INTERNATIONAL CORPORATION	

TOLERANCES					
X.	$\pm 2.0$				
X.X	$\pm 0.5$				
X.XX	$\pm 0.1$				
MAXIMUM MOTOR WEIGHT					
	- lbs.				
	- kgs.				
01	Adding tolerance dimension "H"	T.Danh	Sep-10-18	B.Quynh	
NO	REVISION	DRAWN BY	DATE	CHECK	

**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: 1000
FRAME: 132M	ENCL: TEFC	FLAMPS: 15.1/8.7	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7FS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 111/64	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 325	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 400	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.2	FULL LOAD: 74.2
3/4 LOAD: 89.3	3/4 LOAD: 68.7
1/2 LOAD: 87.7	1/2 LOAD: 57.9

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINWAVE 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:** 9/10/2020

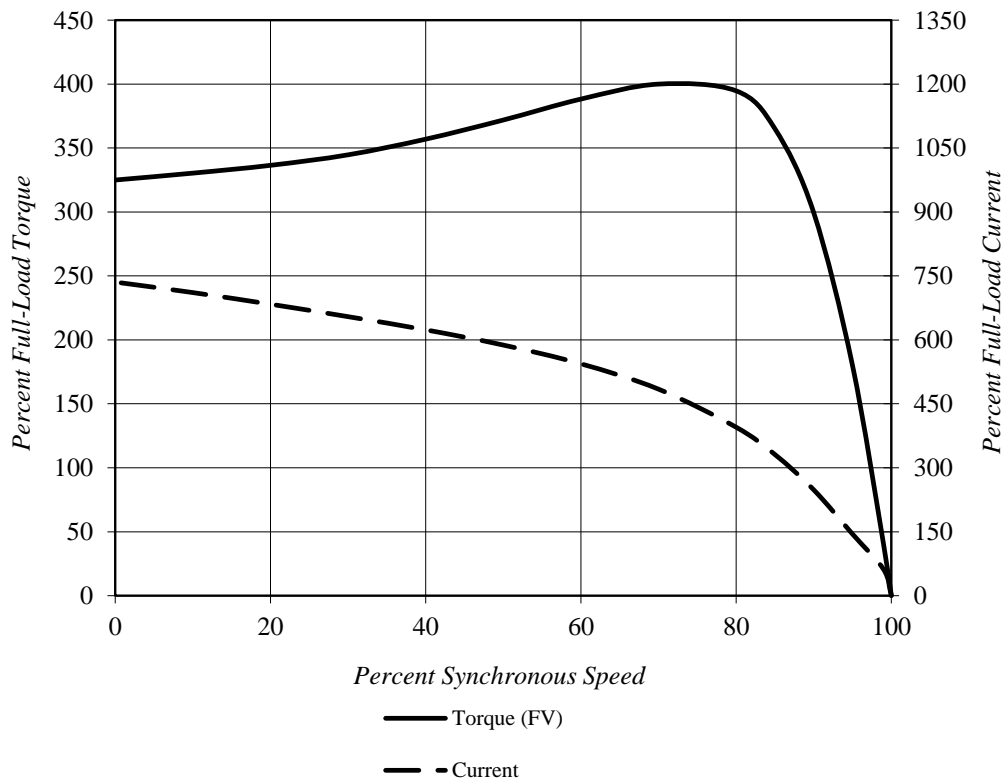
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	15.1/8.7
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)

<b>Locked Rotor Amps:</b>	111/64 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	325%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	400%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	29 lb-ft		

### Design Values



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

**D.E. Curve #:** GH6004 (4kW)

**Prepared by:** Zichao Xie

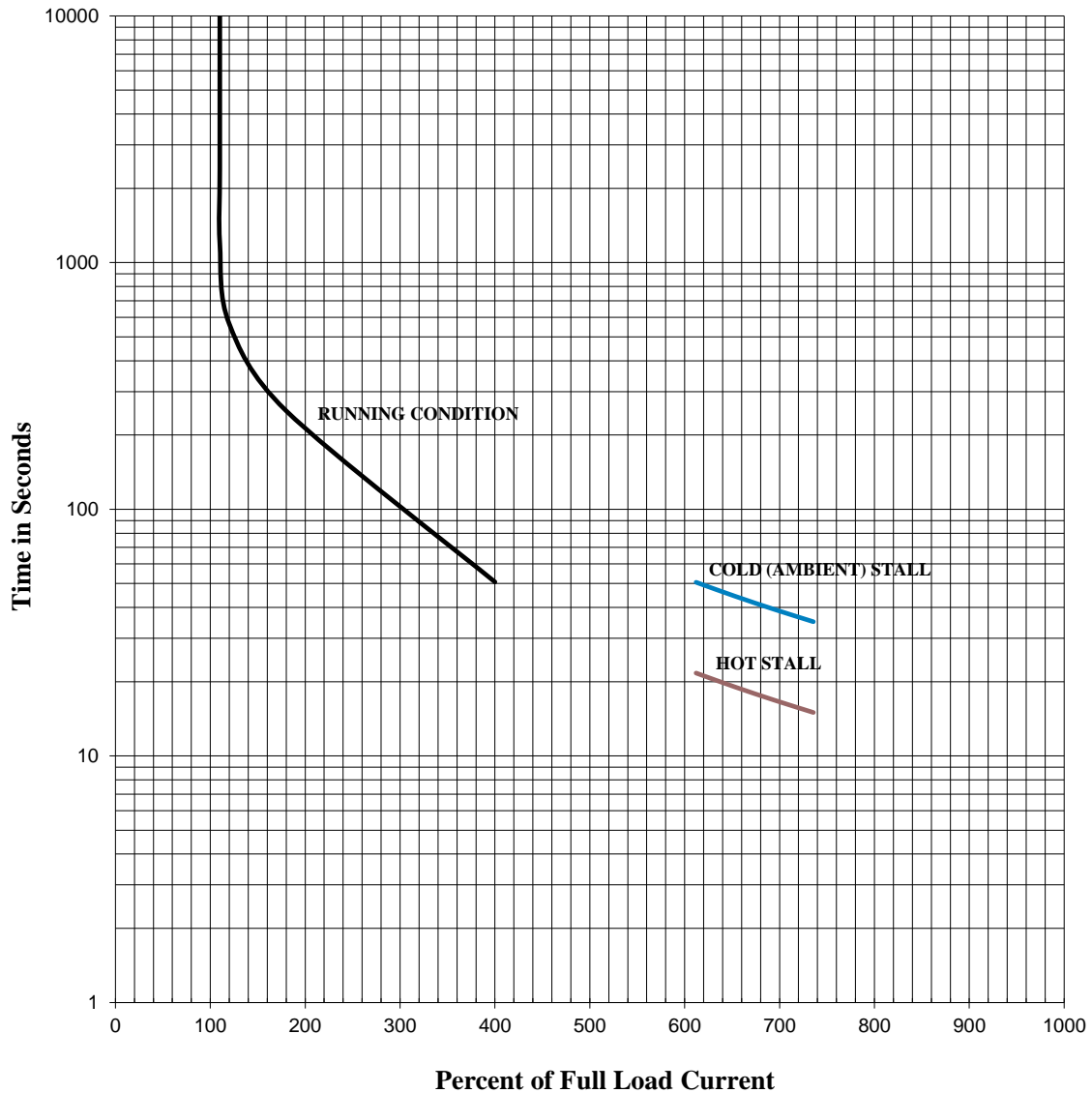
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	15.1/8.7
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)



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

**D.E. Curve #:** GH6004 (4kW)

**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: 1000
FRAME: 132M	ENCL: TEFC	FLAMPS: 14.5/8.4	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7FS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 114/66	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 425	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.6	FULL LOAD: 74.4
3/4 LOAD: 89.4	3/4 LOAD: 68.2
1/2 LOAD: 87.5	1/2 LOAD: 56.7

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:** 9/10/2020

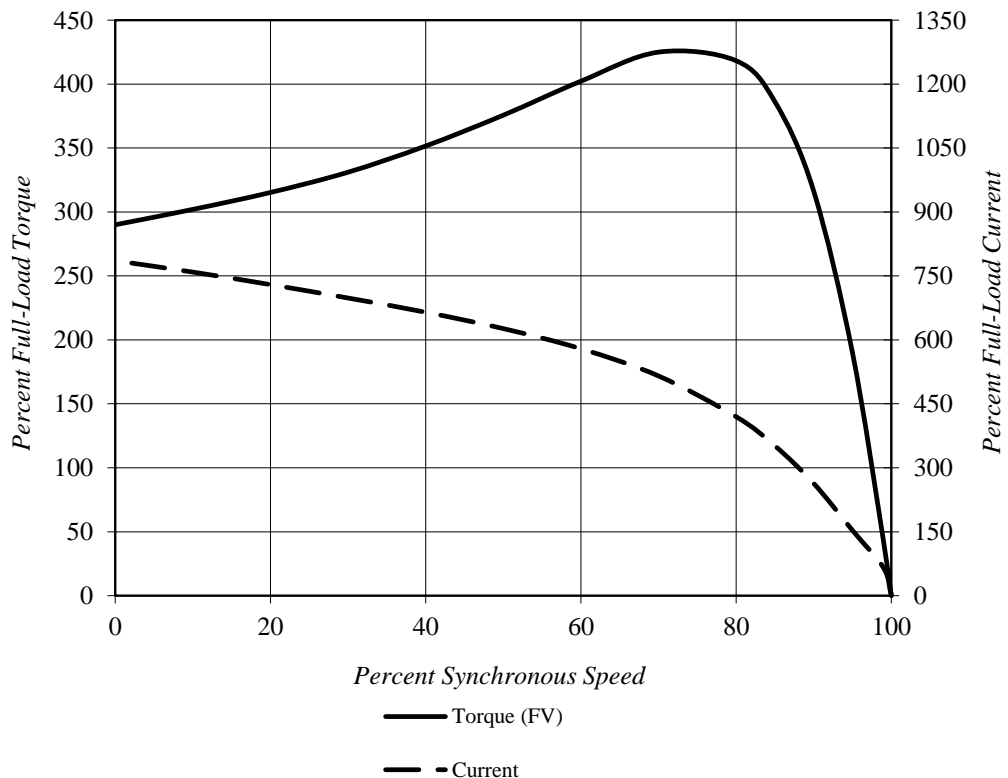
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	14.5/8.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)

<b>Locked Rotor Amps:</b>	114/66 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	290%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	425%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	29 lb-ft		

### *Design Values*



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

**D.E. Curve #:** GH6004 (4kW)

**Prepared by:** Zichao Xie

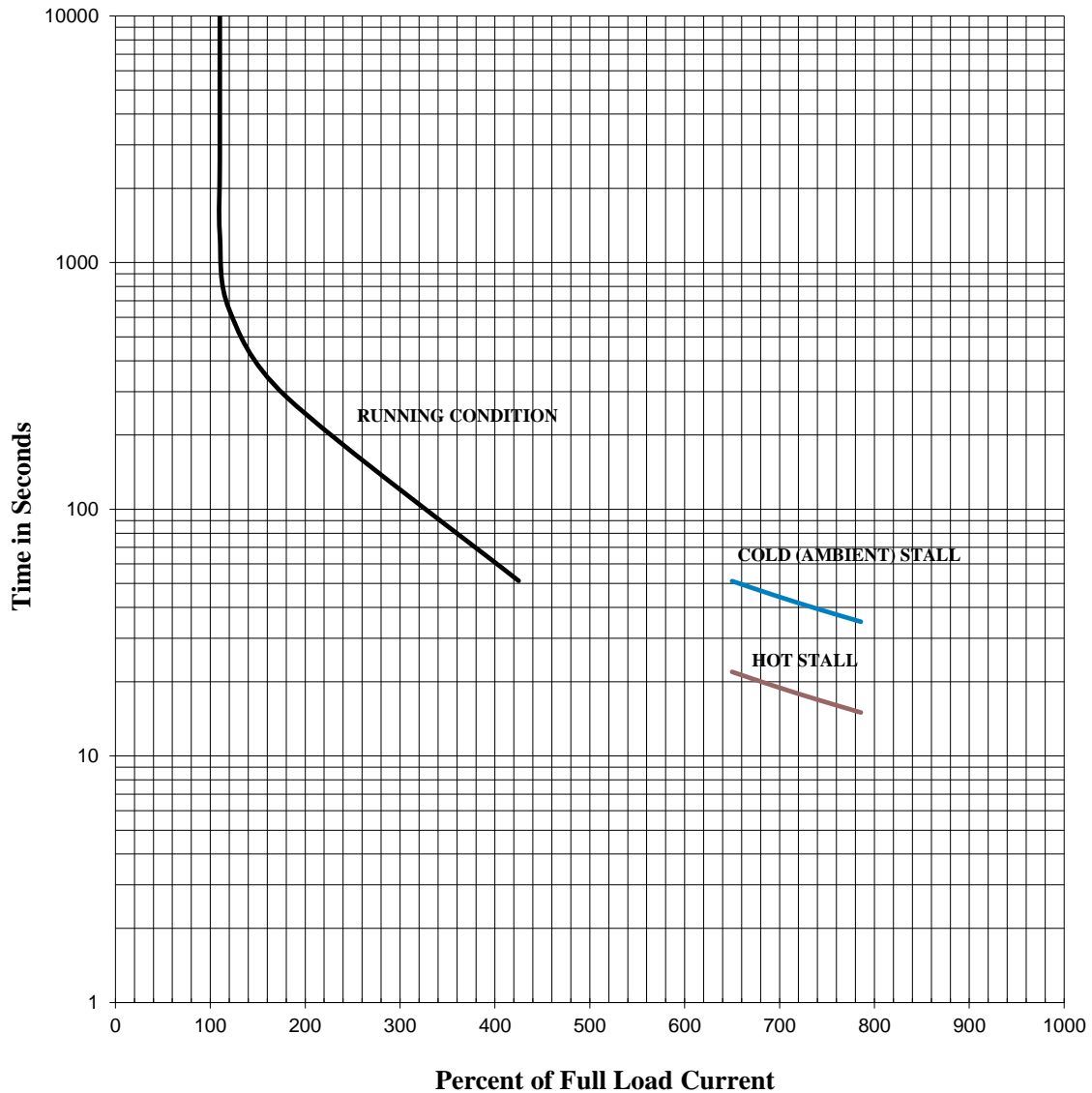
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	14.5/8.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)



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

**D.E. Curve #:** GH6004 (4kW)

**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: 220/380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 132M	ENCL: TEFC	FLAMPS: 15.4/8.9	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7FS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 102/59	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 230	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 360	

EFFICIENCY	POWER FACTOR
FULL LOAD: 88.6	FULL LOAD: 77.0
3/4 LOAD: 89.1	3/4 LOAD: 72.2
1/2 LOAD: 88.0	1/2 LOAD: 62.1

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:** 9/10/2020



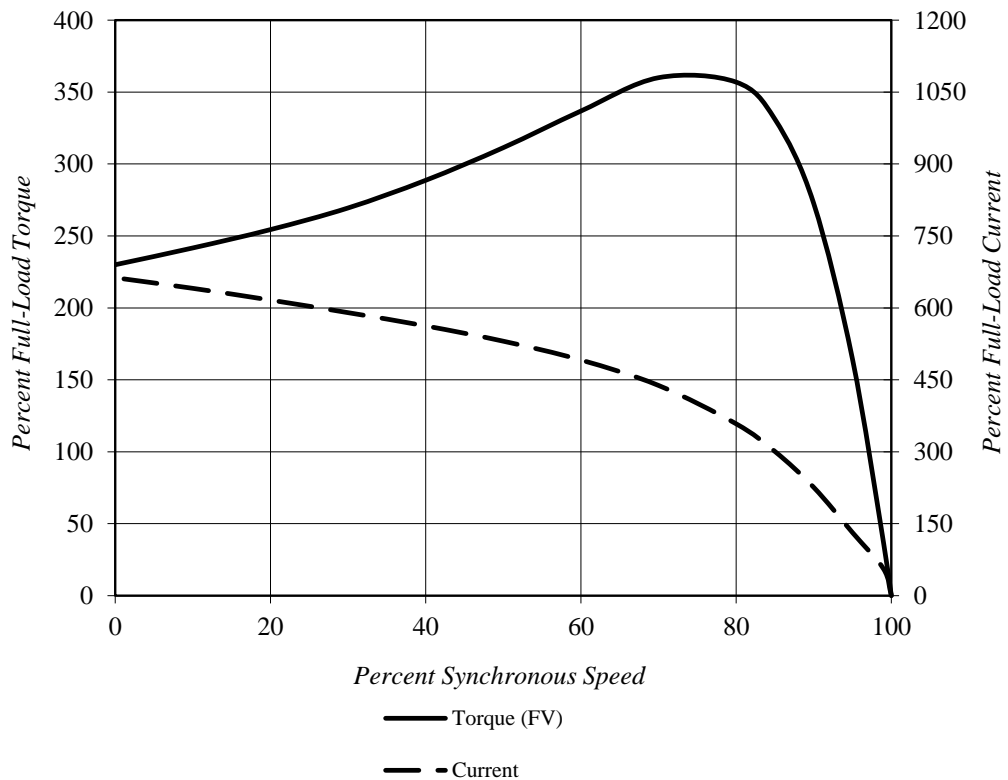
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	15.4/8.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)

<b>Locked Rotor Amps:</b>	102/59 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	230%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	360%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	29 lb-ft		

### *Design Values*



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

**D.E. Curve #:** GH6004 (4kW)

**Prepared by:** Zichao Xie

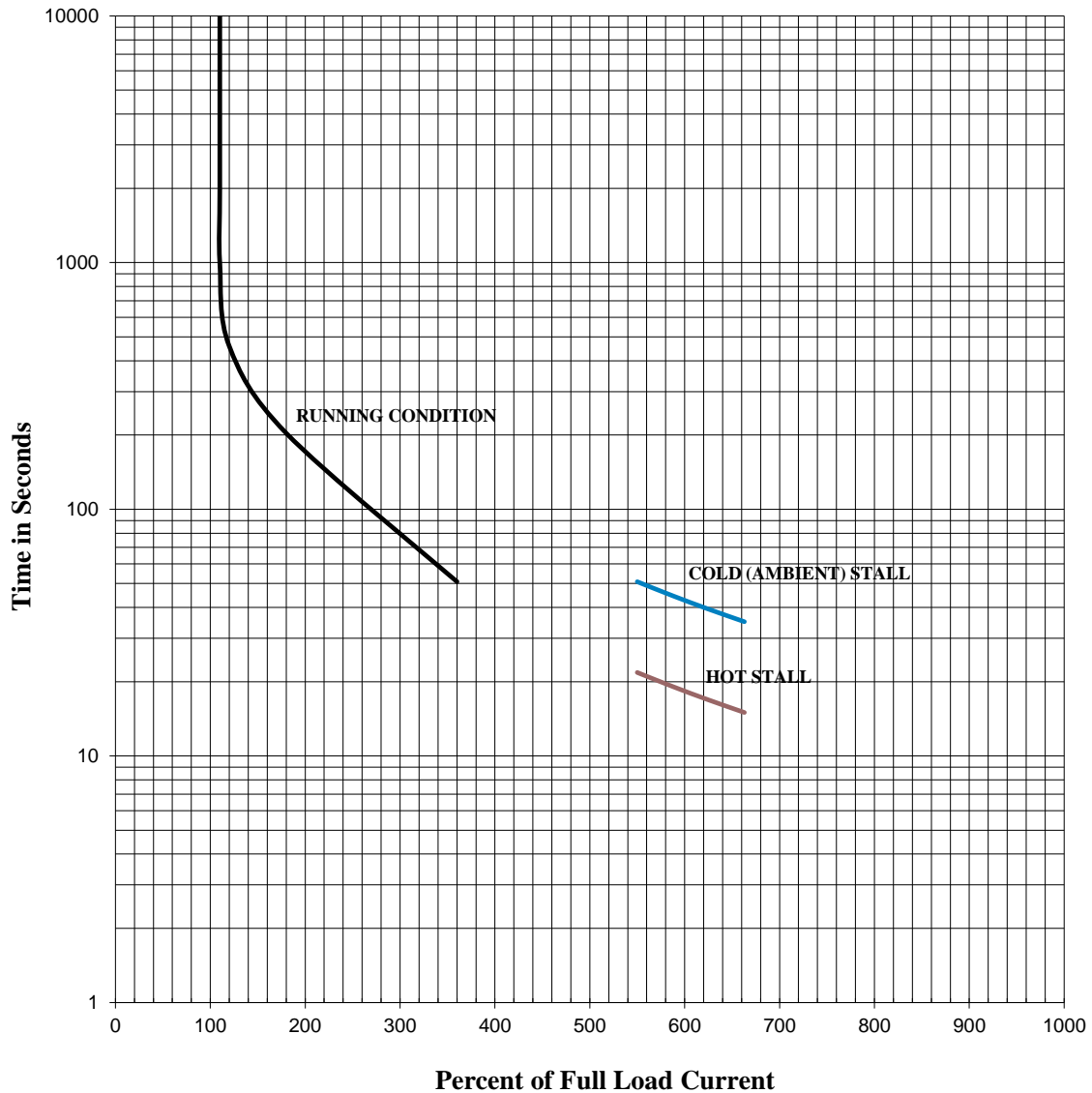
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	15.4/8.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	4	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)



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

**D.E.Curve #:** GH6004 (4kW)

**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.: 5.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 132M	ENCL: TEFC	FLAMPS: 7.9	FLRPM: 1175
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0046SDMV7FS-PL		KW: 4	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 72.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 63	FULL LOAD (lb-ft.): 25	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 300	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 425	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.4	FULL LOAD: 72.4
3/4 LOAD: 90.0	3/4 LOAD: 66.4
1/2 LOAD: 87.8	1/2 LOAD: 55.3

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:** 9/10/2020

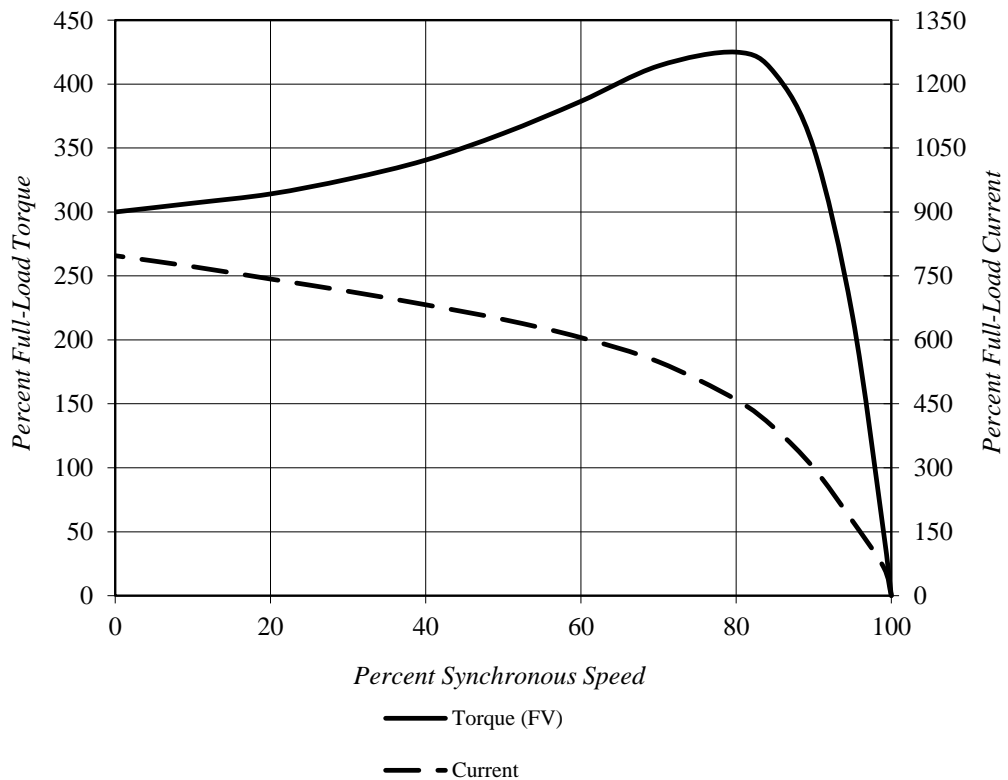
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	7.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	5.5	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)

<b>Locked Rotor Amps:</b>	63 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	300%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	425%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	25 lb-ft		

### *Design Values*



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

**D.E. Curve #:** GH6004 (4kW)

**Prepared by:** Zichao Xie

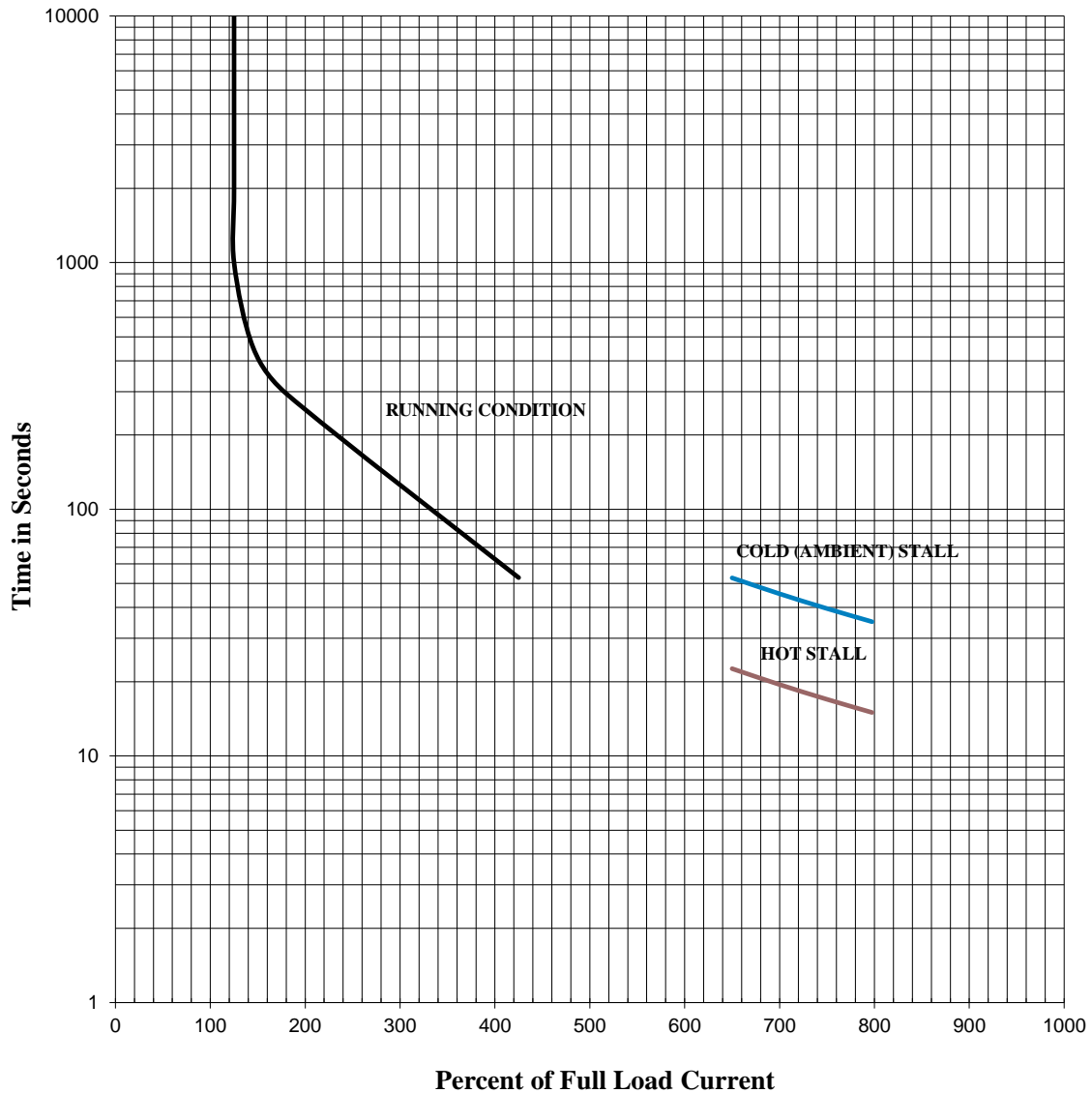
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0046SDMV7FS-PL			<b>FLAmps:</b>	7.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	132M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	5.5	<b>Rotor Inertia:</b>	1.4 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6004 (4kW)



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

**D.E. Curve #:** GH6004 (4kW)

**Prepared by:** Zichao Xie

**Checked by:**