

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.

B5-FLANGE MOTOR OL DRAWING IEC GLOBAL		TYPE: 2-4-6P 400V	TOLERANCES X. $\pm 2.0$ X.X $\pm 0.5$ X.XX $\pm 0.1$						
3HFN000249		FRAME: 200L	MAXIMUM MOTOR WEIGHT -- lbs. -- kgs.						
<b>TOSHIBA</b> TOSHIBA INTERNATIONAL CORPORATION					01	Change to new design Frame footless	T.Danh	May-21-18	B.Quynh
					NO	REVISION	DRAWN BY	DATE	CHECK
									DRAWN BY: HIEN. NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE <a href="http://www.toshiba.com/ind">www.toshiba.com/ind</a>

**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: 400	3 PH / 50 Hz	S. RPM: 3000
FRAME: 200L	ENCL: TEFC	FLAMPS: 67	FLRPM: 2970
FORM: FCKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7JS-P		kW: 37	
NOM. EFF.: 93.7	MIN. EFF.: -	cosØ 0.84	

**AMPERAGE**

LOCKED ROTOR: 655

**TORQUES**

FULL LOAD (lb-ft.): 88  
LOCKED ROTOR (%): 340  
BREAK DOWN (%): 400

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 95.0  
3/4 LOAD: 93.9  
1/2 LOAD: 91.4

**POWER FACTOR**

FULL LOAD: 84.0  
3/4 LOAD: 79.7  
1/2 LOAD: 70.3

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:** 1/14/2020

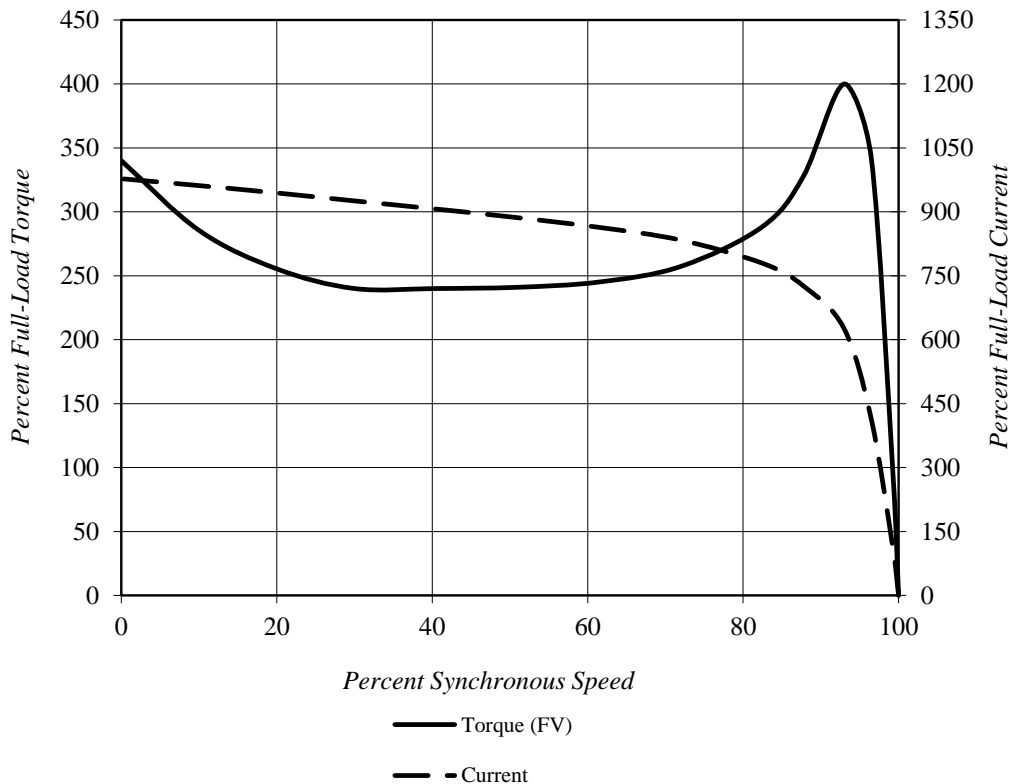
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	67
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)

<b>Locked Rotor Amps:</b>	655 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	340%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	400%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	88 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2037 (37kW)

**Prepared by:** Zichao Xie

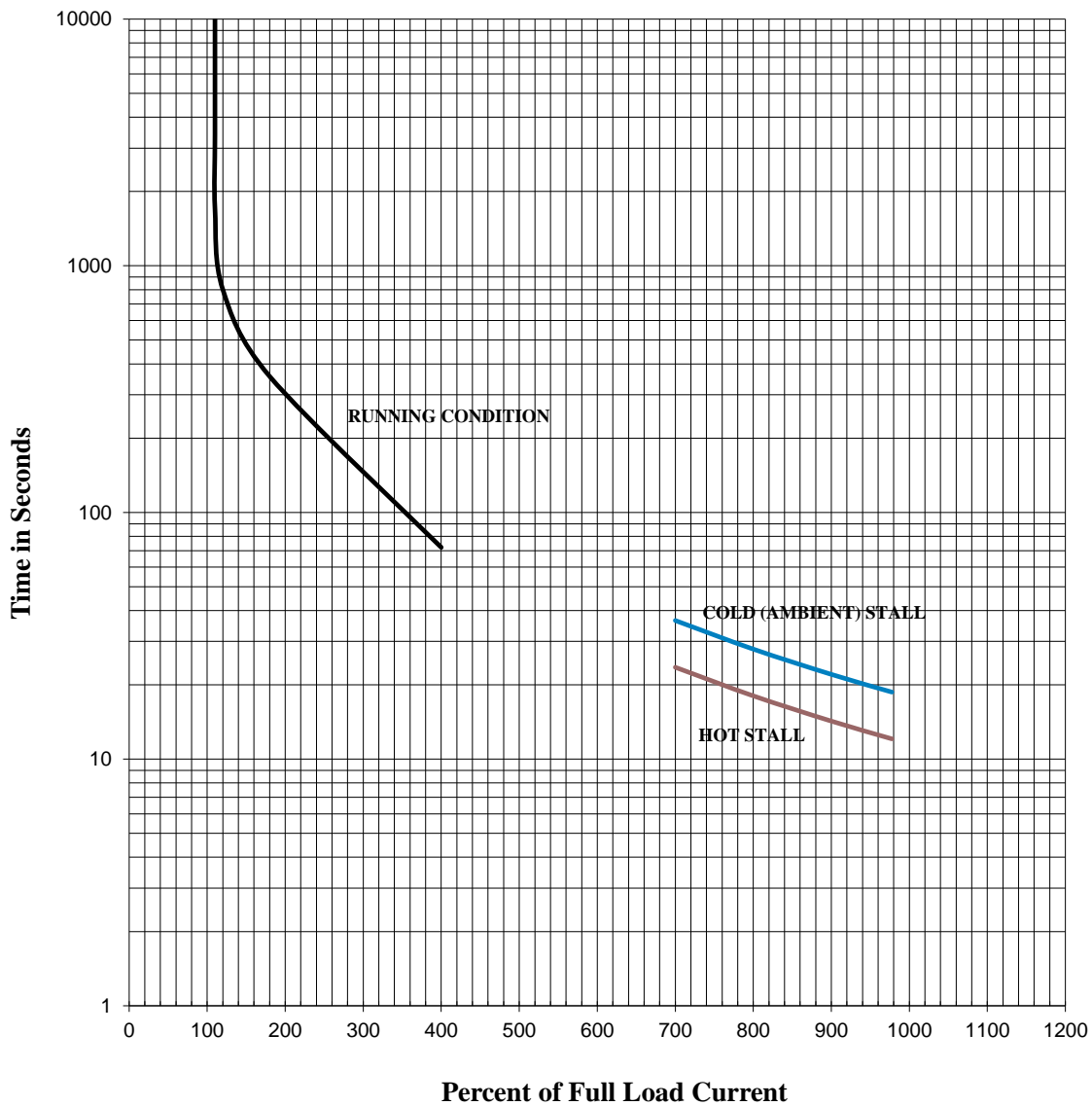
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	67
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2037 (37kW)

**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: 415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 200L	ENCL: TEFC	FLAMPS: 66	FLRPM: 2970
FORM: FCKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7JS-P		kW: 37	
NOM. EFF.: 93.7	MIN. EFF.: -	cosØ 0.81	

<b>AMPERAGE</b>	<b>TORQUES</b>	<b>**BEARINGS:</b>
LOCKED ROTOR: 683	FULL LOAD (lb-ft.): 88	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 370	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 430	

<b>EFFICIENCY</b>	<b>POWER FACTOR</b>
FULL LOAD: 95.3	FULL LOAD: 81.8
3/4 LOAD: 94.1	3/4 LOAD: 76.5
1/2 LOAD: 91.4	1/2 LOAD: 65.8

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:** 1/14/2020

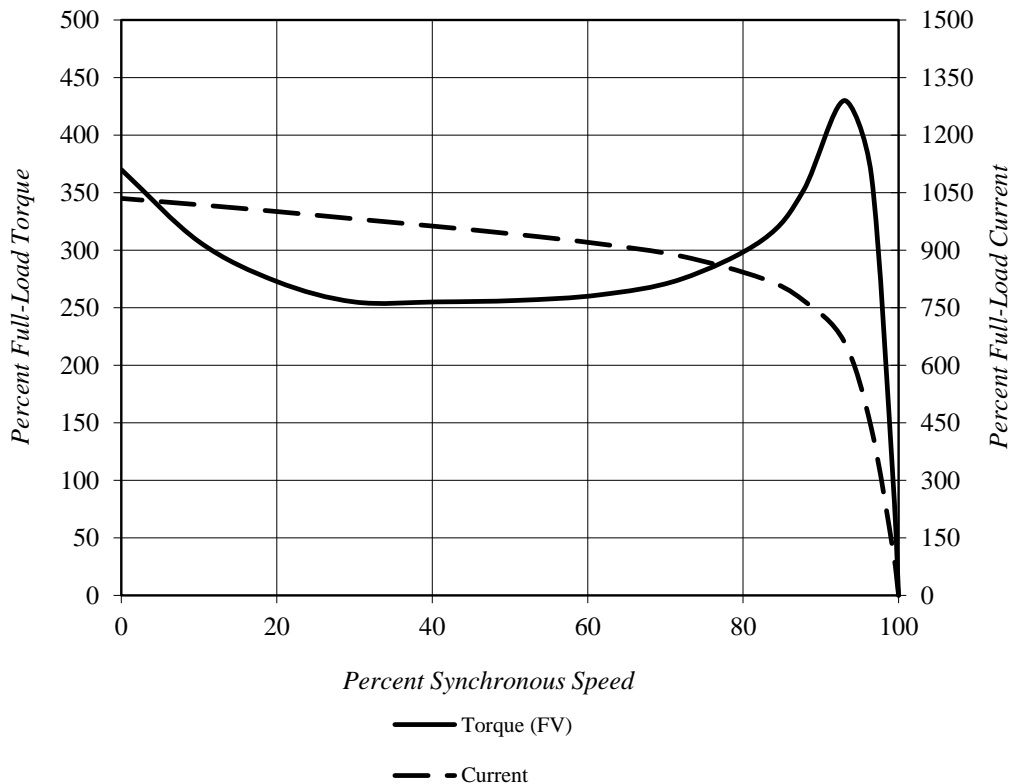
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	66
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)

<b>Locked Rotor Amps:</b>	683 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	370%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	430%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	88 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2037 (37kW)

**Prepared by:** Zichao Xie

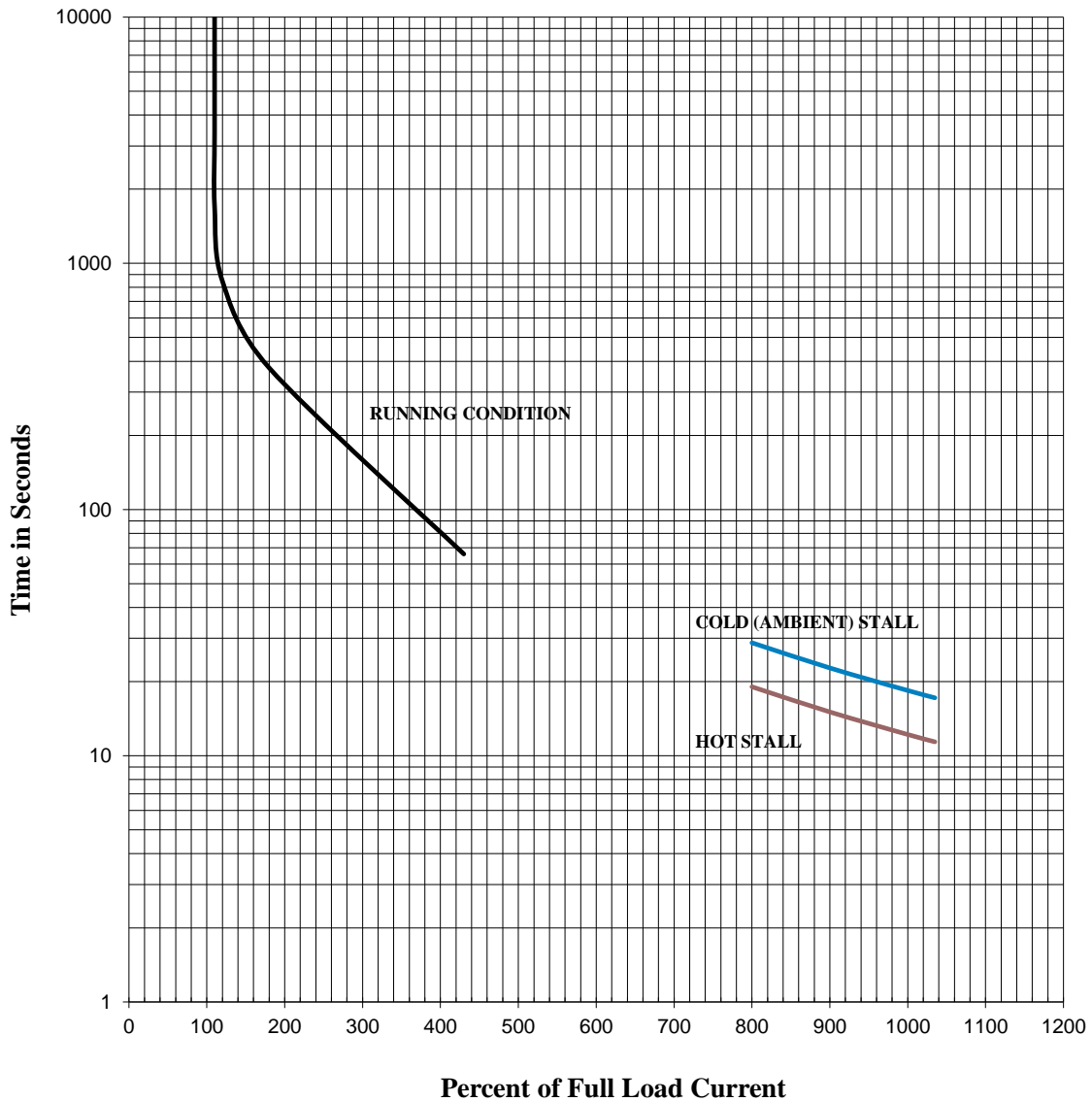
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	66
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** GH2037 (37kW)

**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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REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

**MOTOR NAMEPLATE DATA**

H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 200L	ENCL: TEFC	FLAMPS: 68	FLRPM: 2965
FORM: FCKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7JS-P		kW: 37	
NOM. EFF.: 93.7	MIN. EFF.: -	cosØ 0.86	

**AMPERAGE**

LOCKED ROTOR: 617

**TORQUES**

FULL LOAD (lb-ft.): 88  
LOCKED ROTOR (%): 300  
BREAK DOWN (%): 365

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 94.9  
3/4 LOAD: 94.0  
1/2 LOAD: 91.7

**POWER FACTOR**

FULL LOAD: 86.6  
3/4 LOAD: 83.6  
1/2 LOAD: 76.2

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:** 1/14/2020



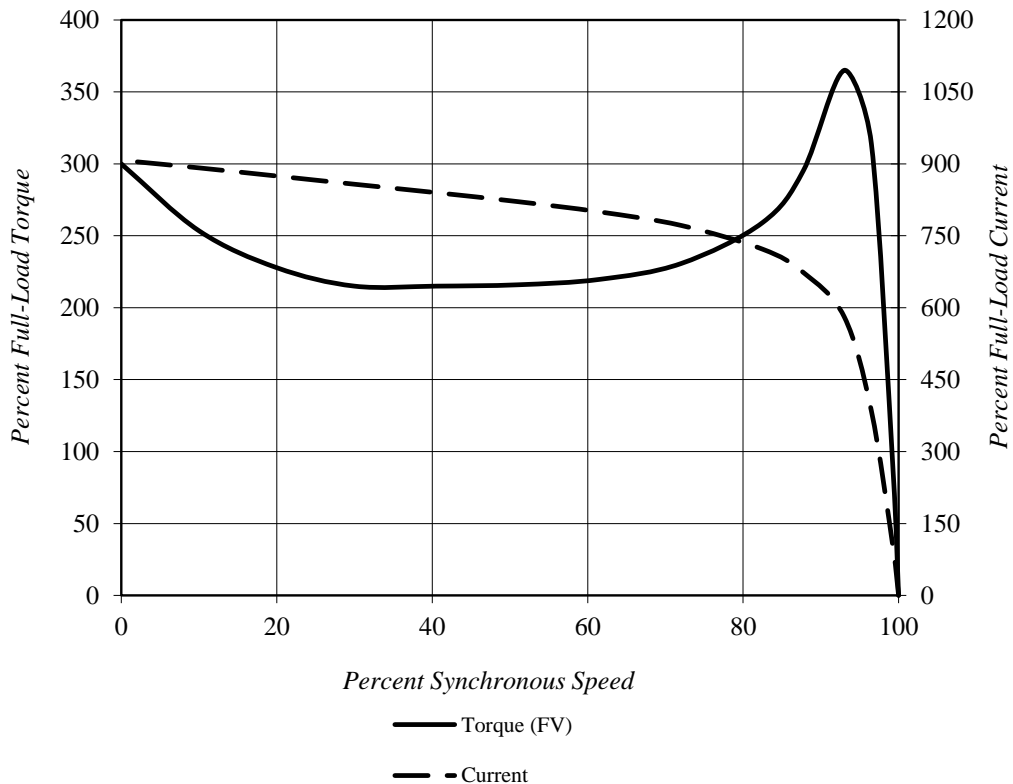
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	68
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)

<b>Locked Rotor Amps:</b>	617 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	300%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	365%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	88 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2037 (37kW)

**Prepared by:** Zichao Xie

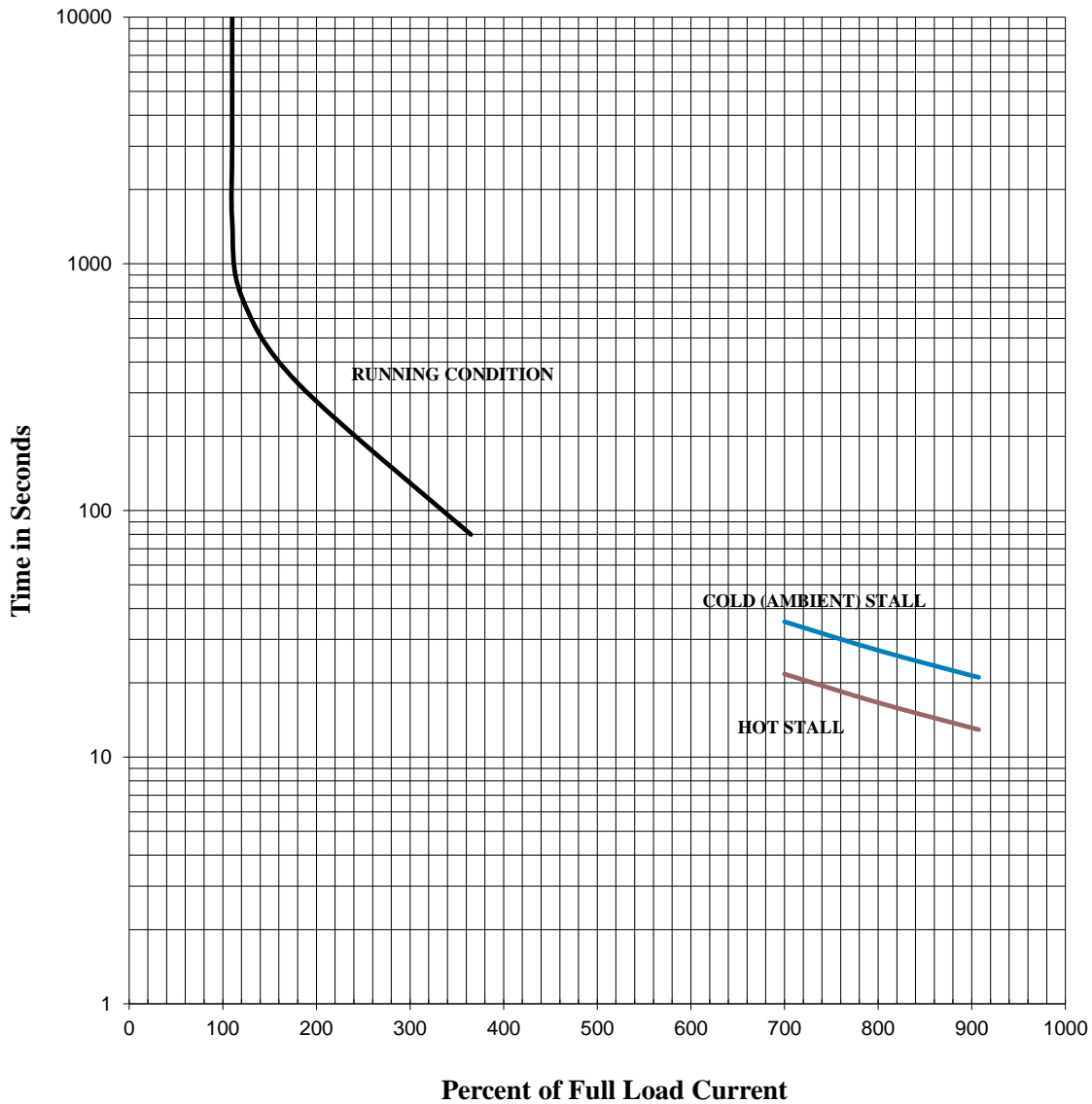
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	68
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	37	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	2965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2037 (37kW)

**Prepared by:** Zichao Xie

**Checked by:**

**TOSHIBA INTERNATIONAL CORPORATION**  
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**SQUIRREL CAGE INDUCTION MOTOR**  
**PERFORMANCE SPECIFICATIONS**

INDEX	MPCF-1033
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SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

**MOTOR NAMEPLATE DATA**

H.P.: 50	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 200L	ENCL: TEFC	FLAMPS: 58	FLRPM: 3570
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: 0372SDMW7JS-P		kW: 37	
NOM. EFF.: 93.0	MIN. EFF.: -	P.F.: 84.0	

**AMPERAGE**

LOCKED ROTOR: 630

**TORQUES**

FULL LOAD (lb-ft.): 73  
LOCKED ROTOR (%): 340  
BREAK DOWN (%): 430

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 95.2  
3/4 LOAD: 93.9  
1/2 LOAD: 91.0

**POWER FACTOR**

FULL LOAD: 84.1  
3/4 LOAD: 79.7  
1/2 LOAD: 70.3

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:** 1/14/2020

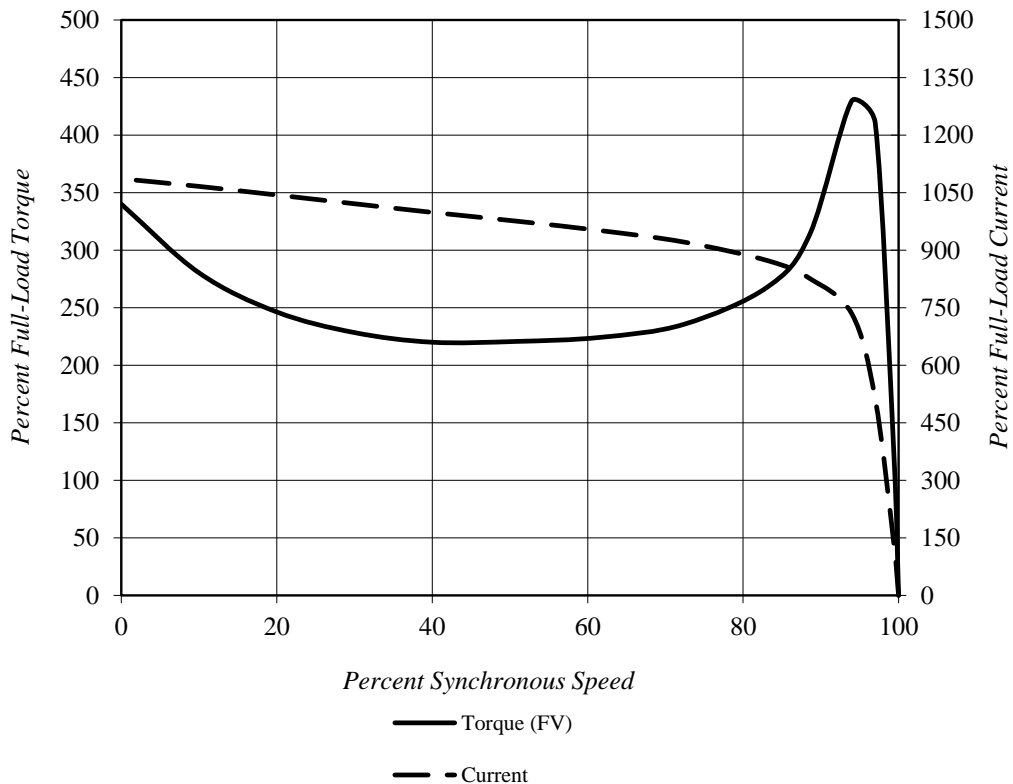
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	58
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	50	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	3570	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)

<b>Locked Rotor Amps:</b>	630 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	340%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	430%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	73 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2037 (37kW)

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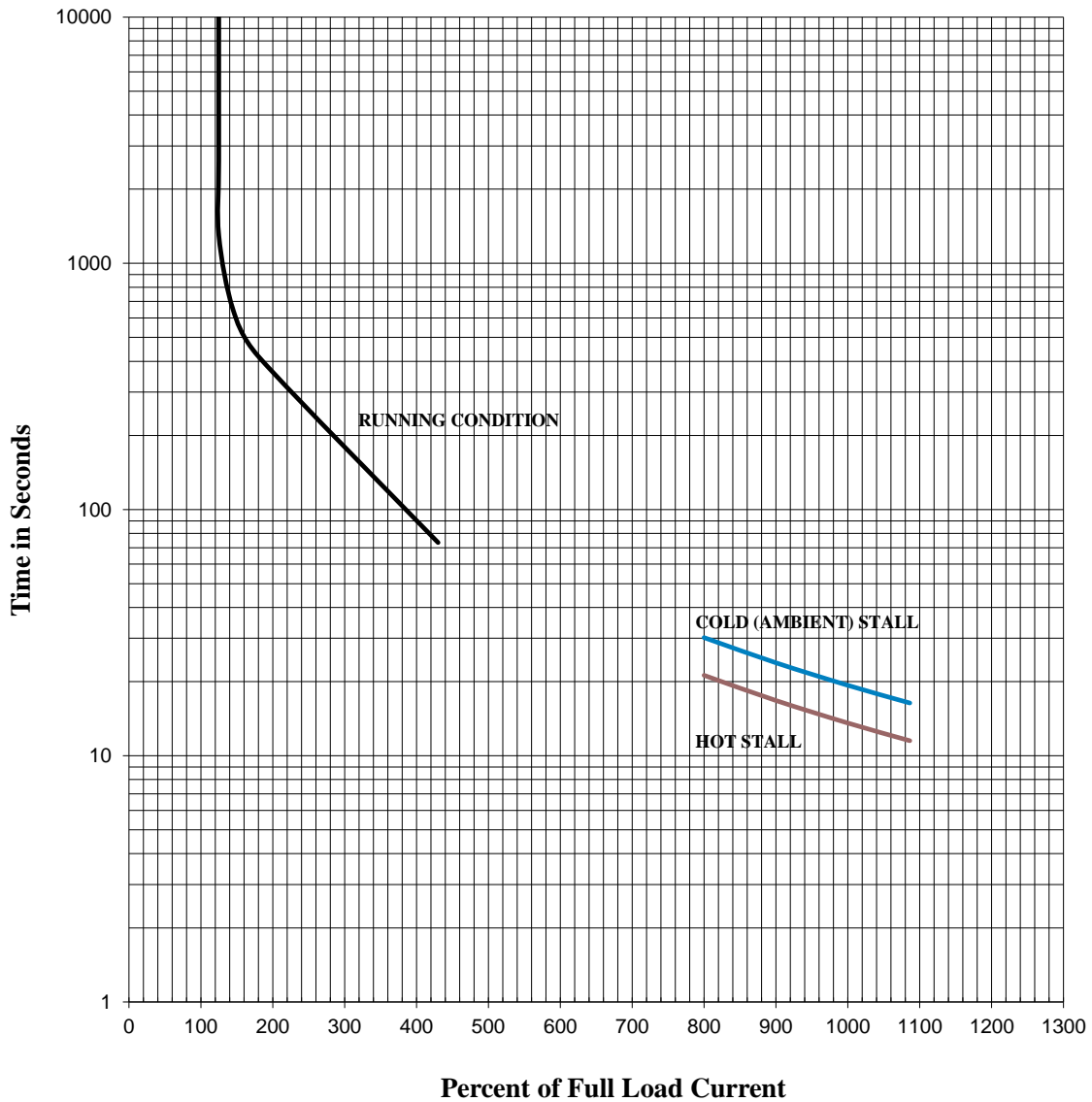
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0372SDMW7JS-P			<b>FLAmps:</b>	58
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	200L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	50	<b>Rotor Inertia:</b>	7.9 lb-ft <sup>2</sup>	<b>Date:</b>	1/14/2020
<b>FLRPM:</b>	3570	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2037 (37kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2037 (37kW)

<b>Prepared by:</b> Zichao Xie	<b>Checked by:</b>
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