

ROTATION: CCW  
VIEW FROM: ODE

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

TYPE: 2-4-6P - 400V

FRAME: 90L

3HFN000229

**TOSHIBA**  
TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES							
X.	$\pm 2.0$						
X.X	$\pm 0.5$						
X.XX	$\pm 0.1$						
MAXIMUM MOTOR WEIGHT							
- lbs.							
- kgs.							
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			
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

**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: 1000
FRAME: 90L	ENCL: TEFC	FLAMPS: 3.7/2.1	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7GS-PL		kW: 0.75	
NOM. EFF.: 78.9	MIN. EFF.: -	cosØ 0.61	

**AMPERAGE**

LOCKED ROTOR: 25/14.5

**TORQUES**

FULL LOAD (lb-ft.): 5.5  
LOCKED ROTOR (%): 390  
BREAK DOWN (%): 430

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 83.3  
3/4 LOAD: 82.7  
1/2 LOAD: 80.6

**POWER FACTOR**

FULL LOAD: 61.7  
3/4 LOAD: 54.4  
1/2 LOAD: 46.7

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:** 6/25/2020

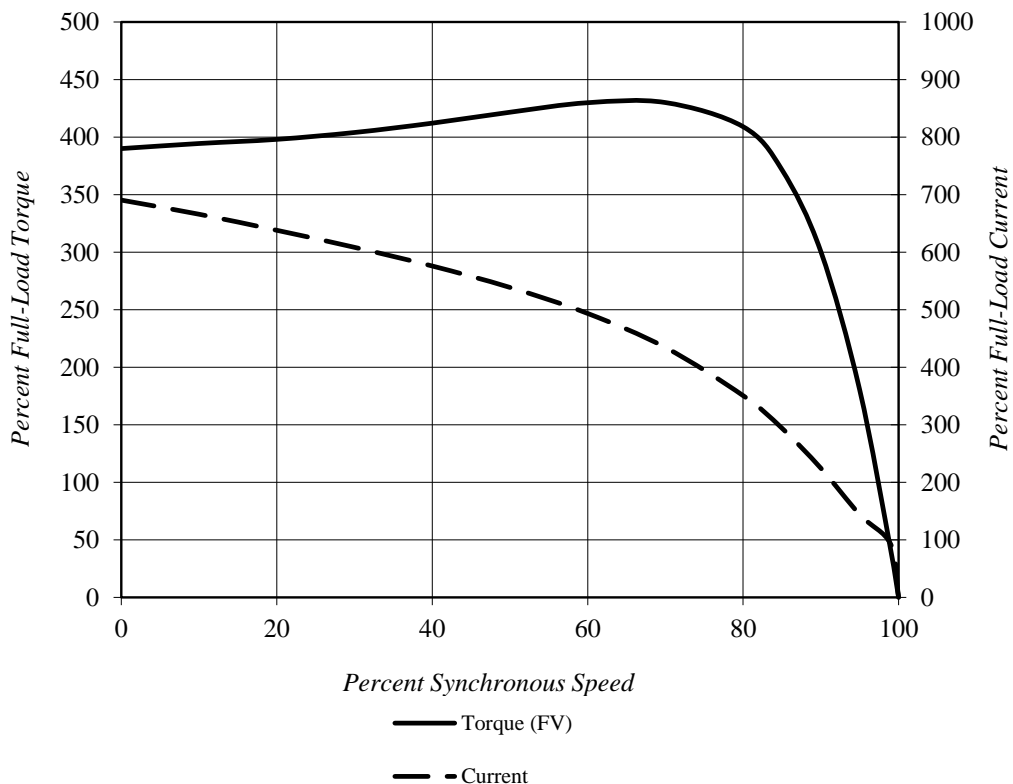
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.7/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	H6X75 (0.75kW)

<b>Locked Rotor Amps:</b>	25/14.5 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	390%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	430%	<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 #:** H6X75 (0.75kW)

**Prepared by:** Zichao Xie

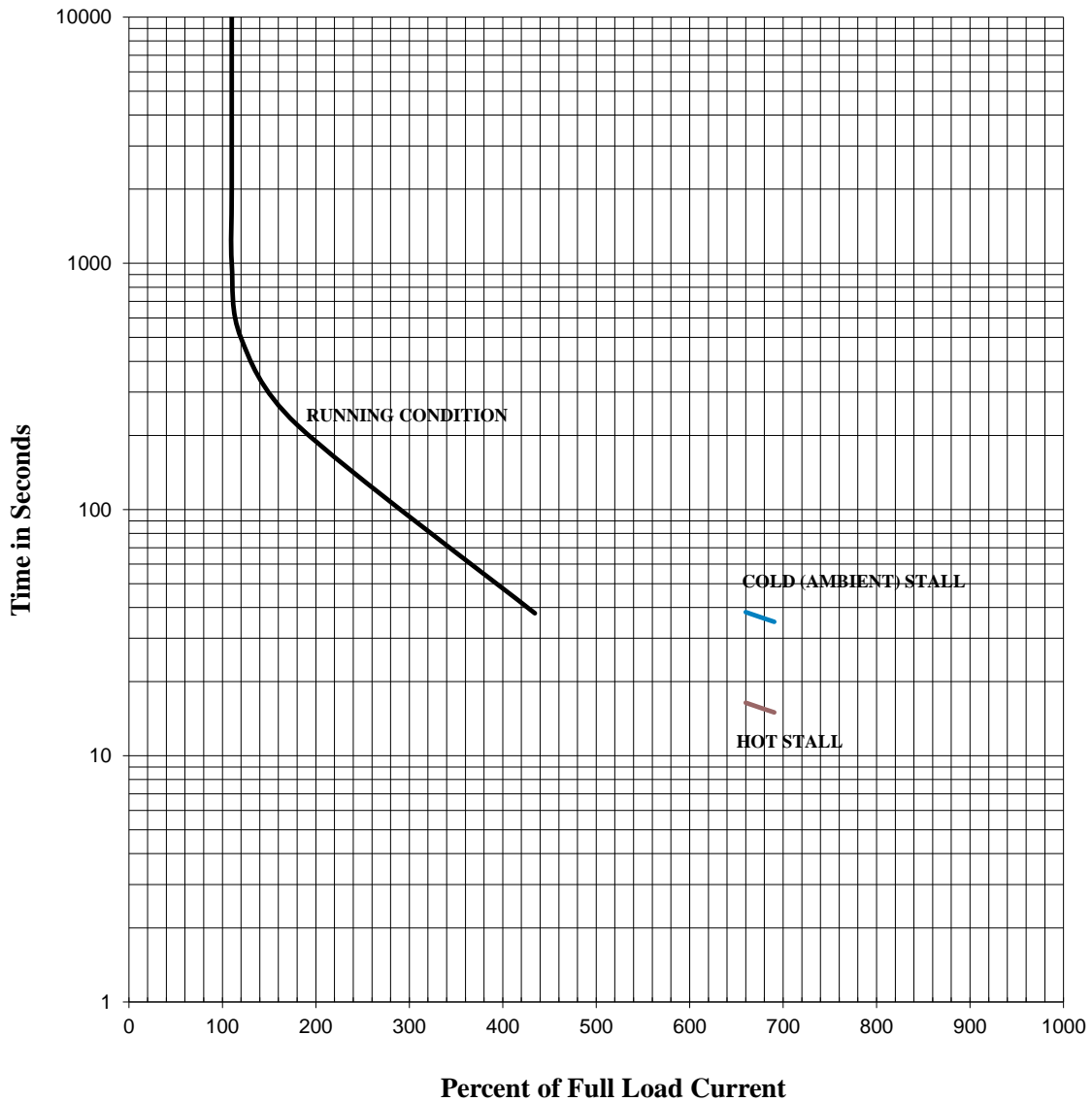
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.7/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	iH6X75 (0.75kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** iH6X75 (0.75kW)

**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: 1000
FRAME: 90L	ENCL: TEFC	FLAMPS: 3.6/2.1	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7GS-PL		kW: 0.75	
NOM. EFF.: 78.9	MIN. EFF.: -	cosØ 0.58	

**AMPERAGE**

LOCKED ROTOR: 26/15.2

**TORQUES**

FULL LOAD (lb-ft.): 5.4  
LOCKED ROTOR (%): 430  
BREAK DOWN (%): 455

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 83.0  
3/4 LOAD: 81.8  
1/2 LOAD: 77.3

**POWER FACTOR**

FULL LOAD: 58.9  
3/4 LOAD: 51.2  
1/2 LOAD: 40.2

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:** 6/25/2020

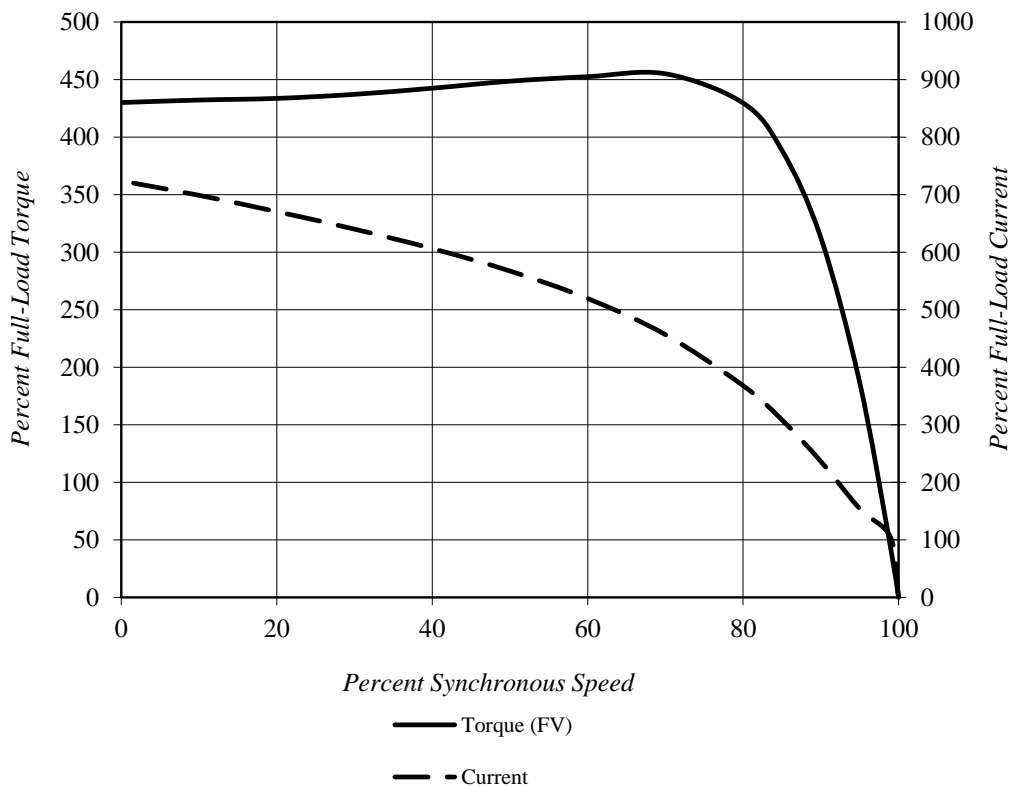
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.6/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	H6X75 (0.75kW)

<b>Locked Rotor Amps:</b>	26/15.2 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	430%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	455%	<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 #:** H6X75 (0.75kW)

**Prepared by:** Zichao Xie

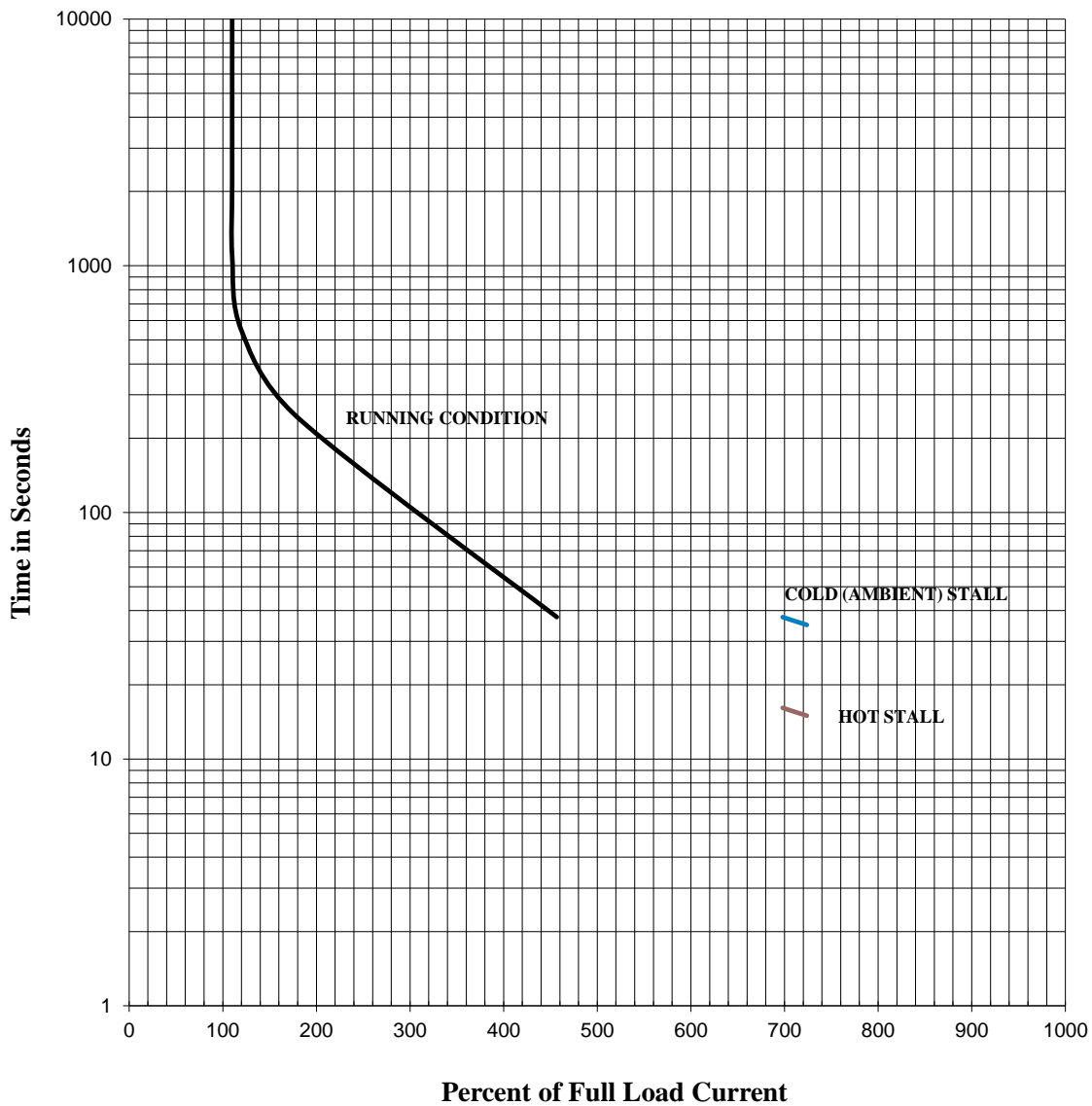
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.6/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	H6X75 (0.75kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** H6X75 (0.75kW)

**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: 90L	ENCL: TEFC	FLAMPS: 3.6/2.1	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7GS-PL		kW: 0.75	
NOM. EFF.: 78.9	MIN. EFF.: -	cosØ 0.64	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 24/13.6	FULL LOAD (lb-ft.): 5.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 345	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 390	

EFFICIENCY	POWER FACTOR
FULL LOAD: 82.9	FULL LOAD: 64.8
3/4 LOAD: 83.2	3/4 LOAD: 58.2
1/2 LOAD: 80.4	1/2 LOAD: 47.3

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:** 6/25/2020



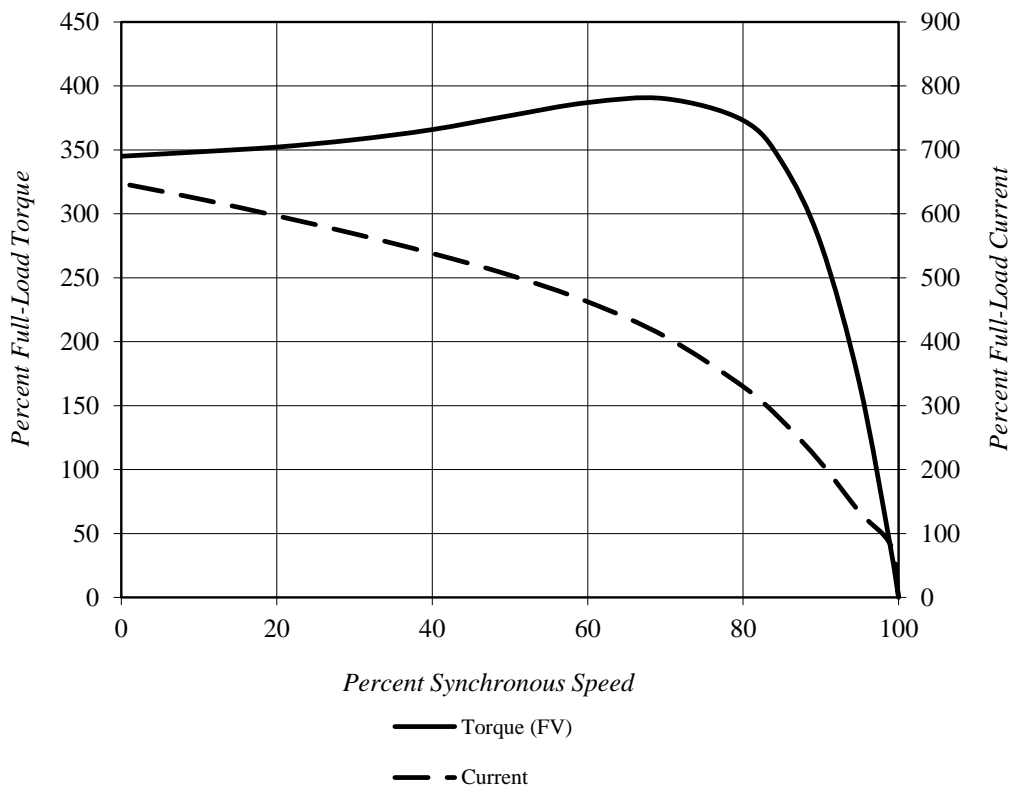
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.6/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	iH6X75 (0.75kW)

<b>Locked Rotor Amps:</b>	24/13.6 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	345%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	390%	<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 #:** iH6X75 (0.75kW)

**Prepared by:** Zichao Xie

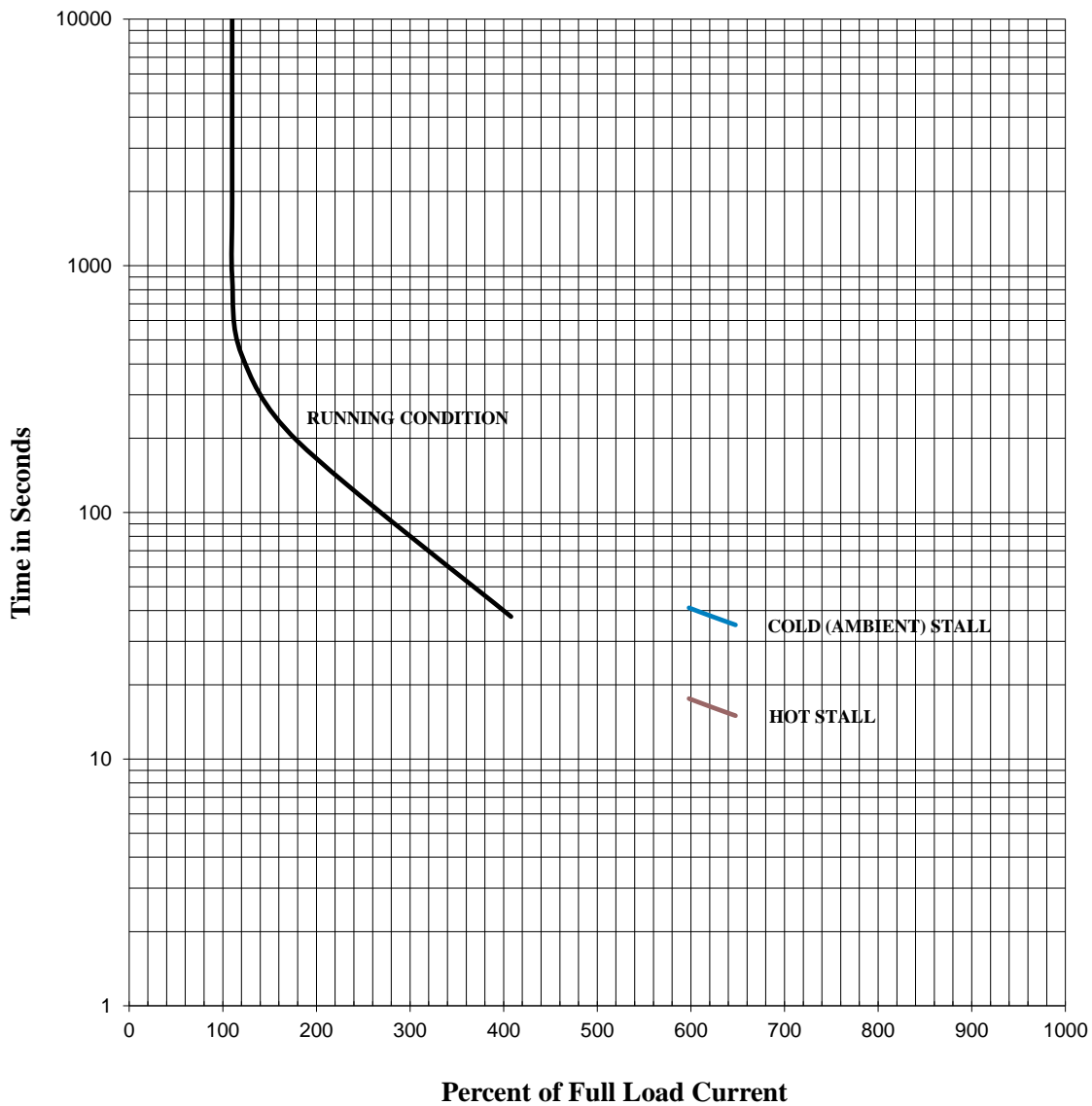
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	3.6/2.1
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	0.75	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	H6X75 (0.75kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E.Curve #:** H6X75 (0.75kW)

**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.: 1	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.0	FLRPM: 1175
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: N	DUTY: Cont.
MODEL No.: X756SDMV7GS-PL		kW: 0.75	
NOM. EFF.: 82.5	MIN. EFF.: -	P.F.: 57.0	

**AMPERAGE**

LOCKED ROTOR: 14.7

**TORQUES**

FULL LOAD (lb-ft.): 4.5  
LOCKED ROTOR (%): 315  
BREAK DOWN (%): 465

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 84.5  
3/4 LOAD: 83.1  
1/2 LOAD: 78.7

**POWER FACTOR**

FULL LOAD: 57.0  
3/4 LOAD: 49.8  
1/2 LOAD: 39.2

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:** 6/25/2020

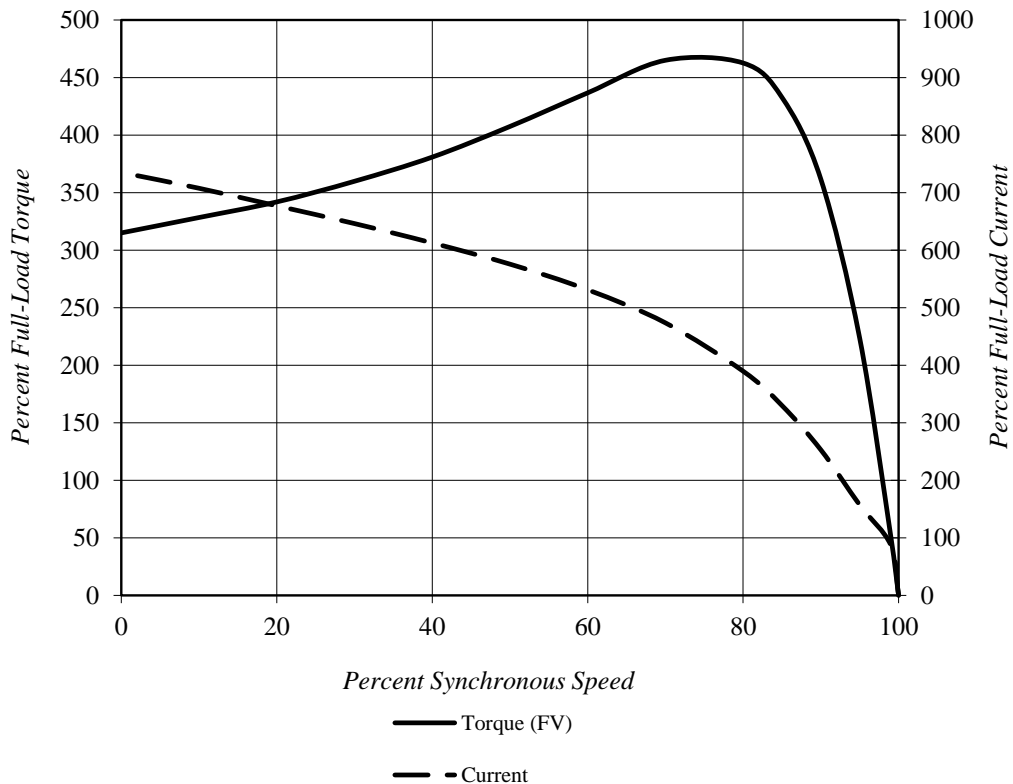
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	2.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	1	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	H6X75 (0.75kW)

<b>Locked Rotor Amps:</b>	14.7 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	315%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	465%	<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 #:** H6X75 (0.75kW)

**Prepared by:** Zichao Xie

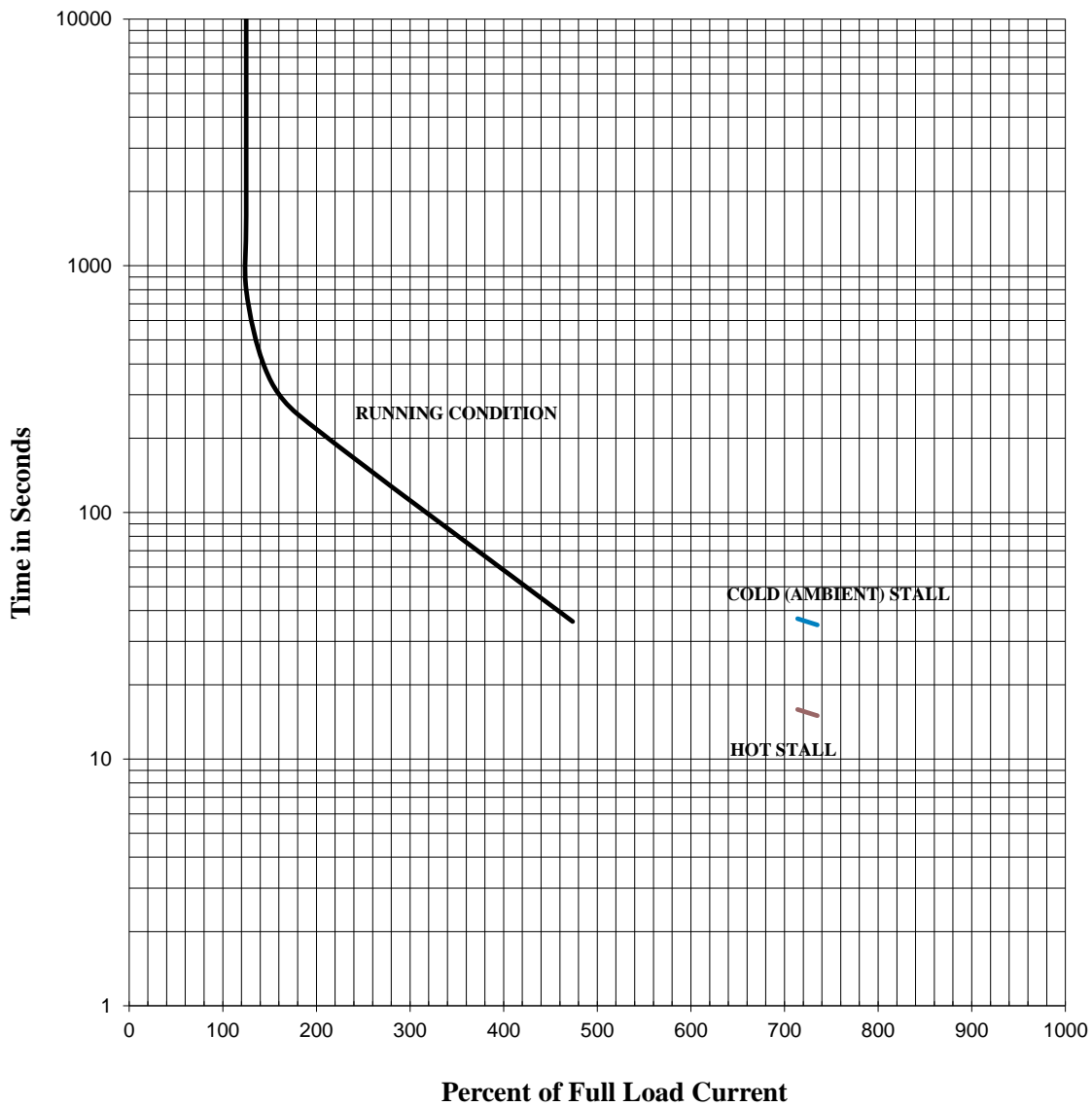
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7GS-PL			<b>FLAmps:</b>	2.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	1	<b>Rotor Inertia:</b>	0.18 lb-ft <sup>2</sup>	<b>Date:</b>	6/25/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	iH6X75 (0.75kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** iH6X75 (0.75kW)

**Prepared by:** Zichao Xie

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