

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.

B3 FOOT MOUNTED MOTOR DL DRAWING IEC GLOBAL	TYPE: 2-4-6P - 400V
3HFN000151	FRAME: 90L
<b>TOSHIBA</b> TOSHIBA INTERNATIONAL CORPORATION	

TOLERANCES				
X.	±2.0			
X.X	±0.5			
X.XX	±0.1			
MAXIMUM MOTOR WEIGHT				
	- lbs.			
	- kgs.			
NO	REVISION	DRAWN BY	DATE	CHECK



DRAWN BY: HIEN. NGUYEN  
CHECK BY: B.X.QUYNH  
APPROVED BY: JAY BUGBEE  
[www.toshiba.com/ind](http://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: 90L	ENCL: TEFC	FLAMPS: 3.7/2.1	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7FS-PL		kW: 0.75	
NOM. EFF.: 78.9	MIN. EFF.: -	cosØ 0.61	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 25/14.5	FULL LOAD (lb-ft.): 5.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 390	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 430	

EFFICIENCY	POWER FACTOR
FULL LOAD: 83.3	FULL LOAD: 61.7
3/4 LOAD: 82.7	3/4 LOAD: 54.4
1/2 LOAD: 80.6	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

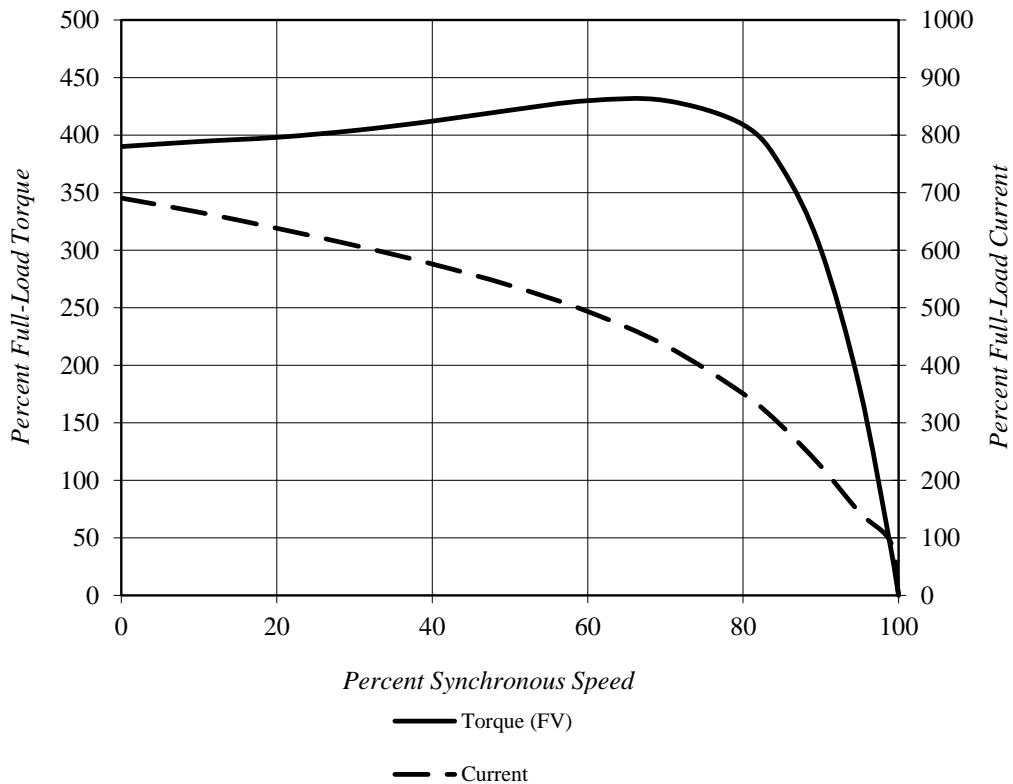
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7FS-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

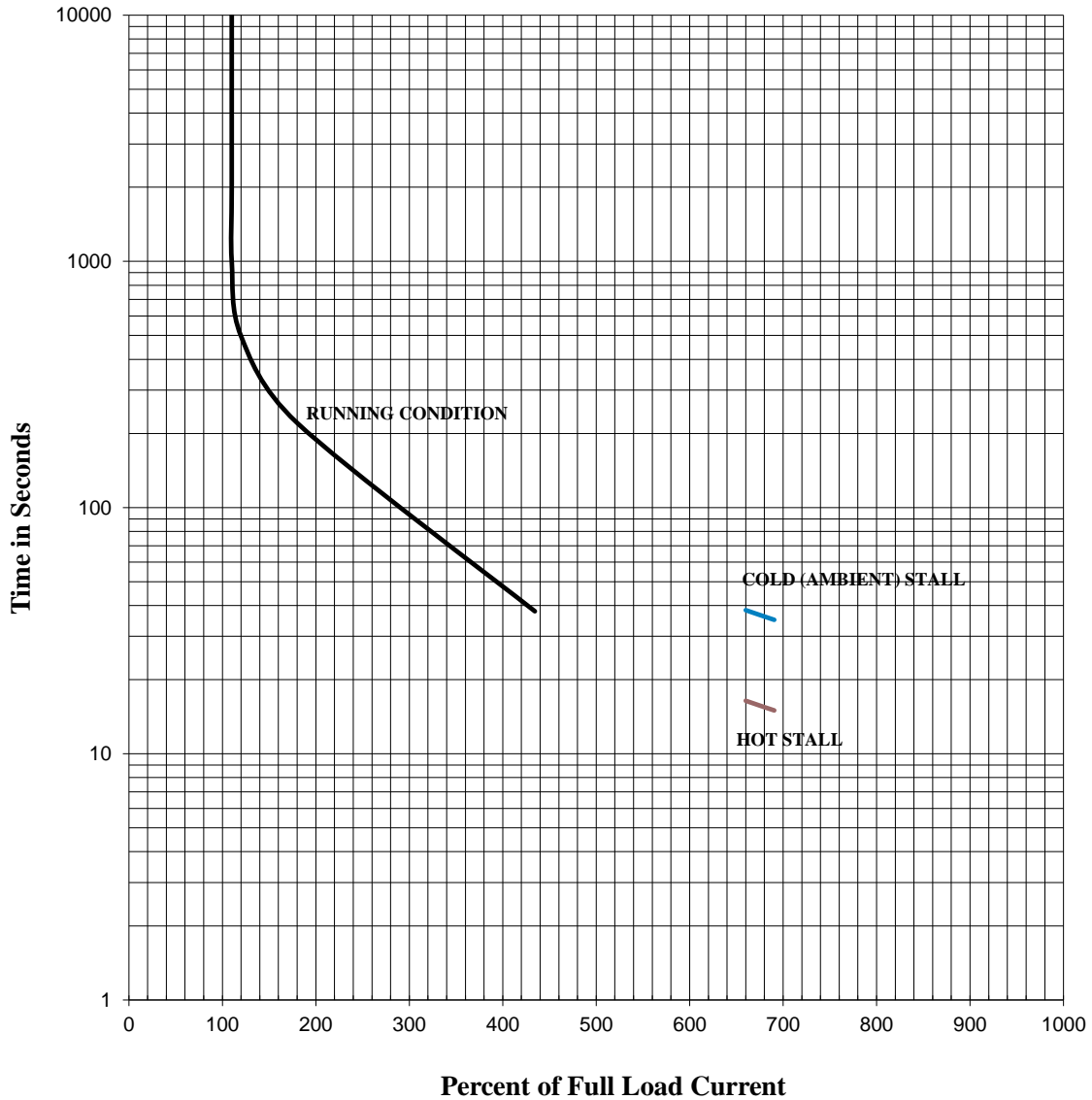
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7FS-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: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7FS-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

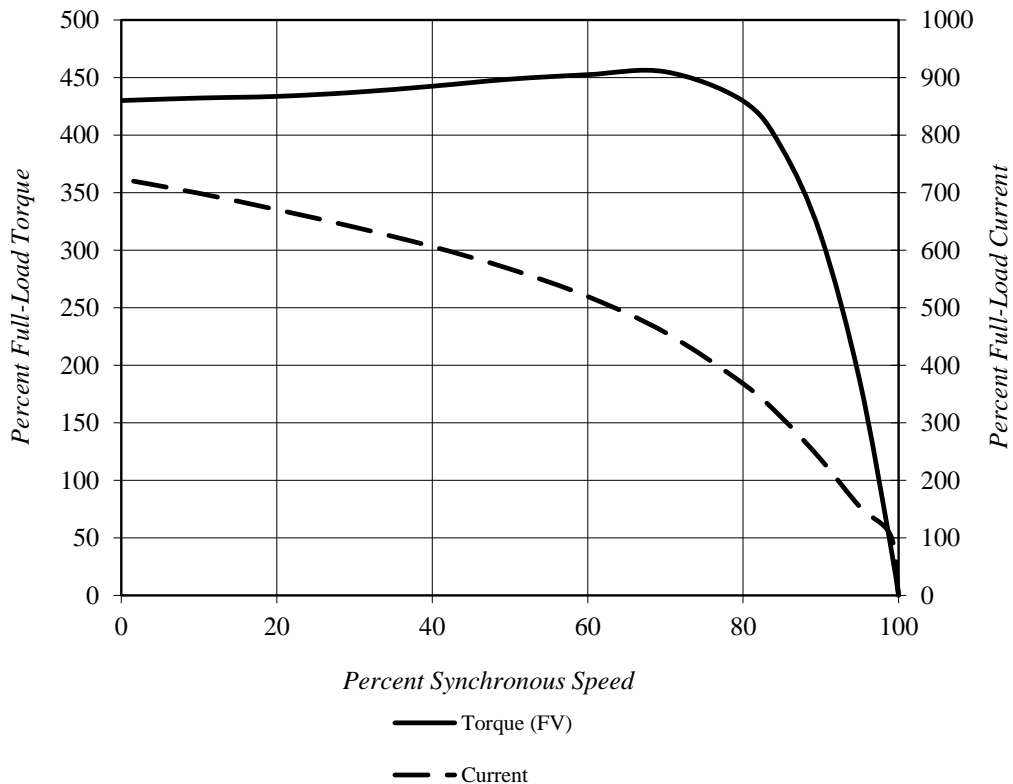
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7FS-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

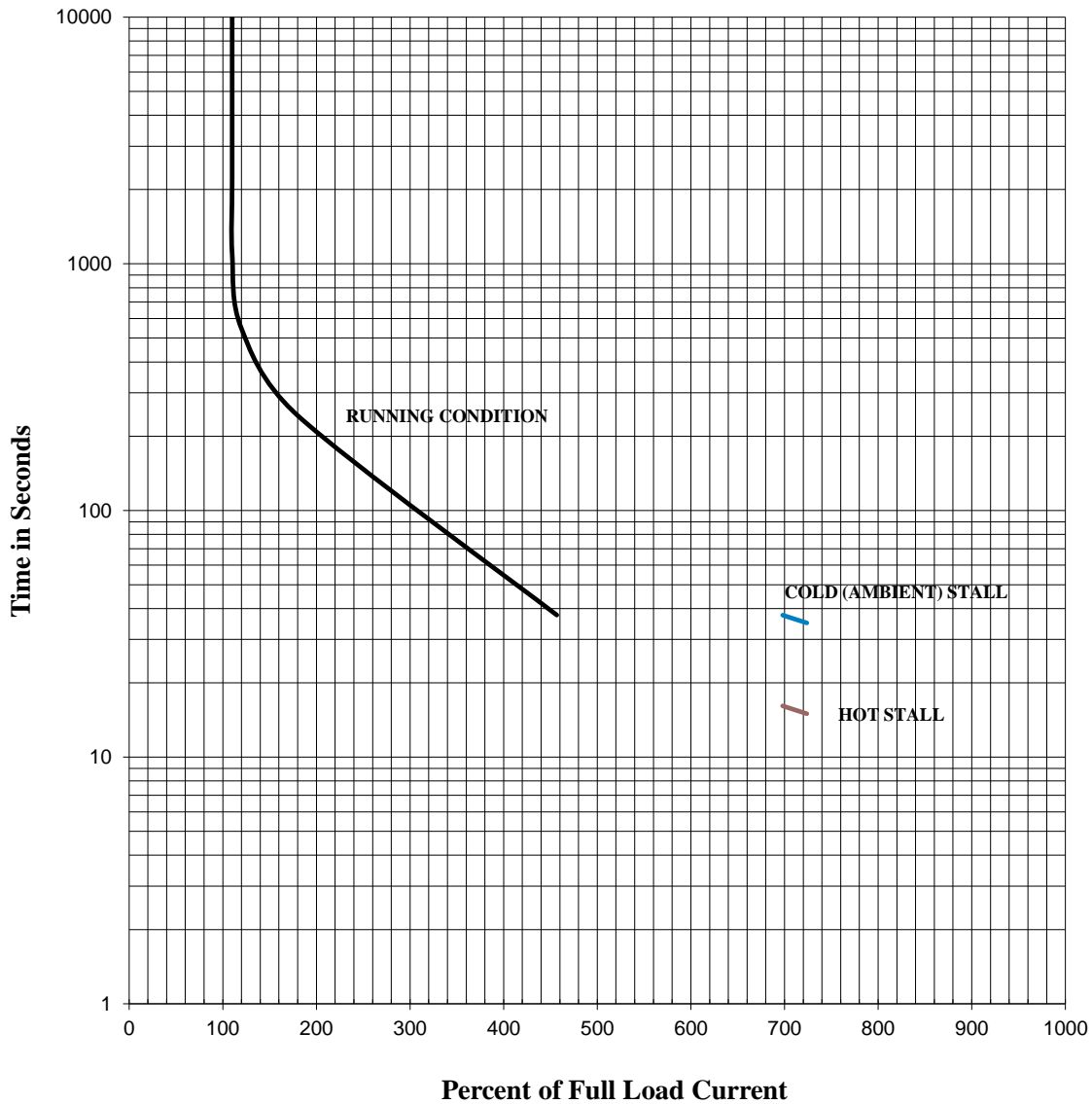
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7FS-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:**

**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: 1000
FRAME: 90L	ENCL: TEFC	FLAMPS: 3.6/2.1	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X756SDMV7FS-PL		kW: 0.75	
NOM. EFF.: 78.9	MIN. EFF.: -	cosØ 0.64	

**AMPERAGE**

LOCKED ROTOR: 24/13.6

**TORQUES**

FULL LOAD (lb-ft.): 5.5  
LOCKED ROTOR (%): 345  
BREAK DOWN (%): 390

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 82.9  
3/4 LOAD: 83.2  
1/2 LOAD: 80.4

**POWER FACTOR**

FULL LOAD: 64.8  
3/4 LOAD: 58.2  
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



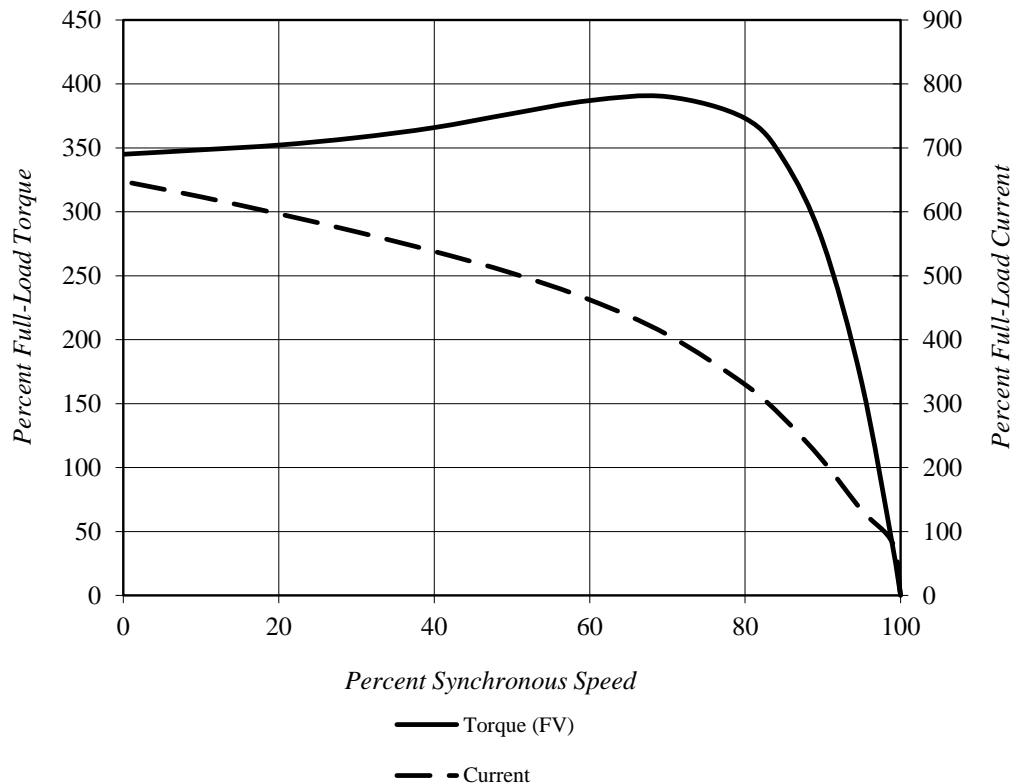
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7FS-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)

<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 #:** H6X75 (0.75kW)

**Prepared by:** Zichao Xie

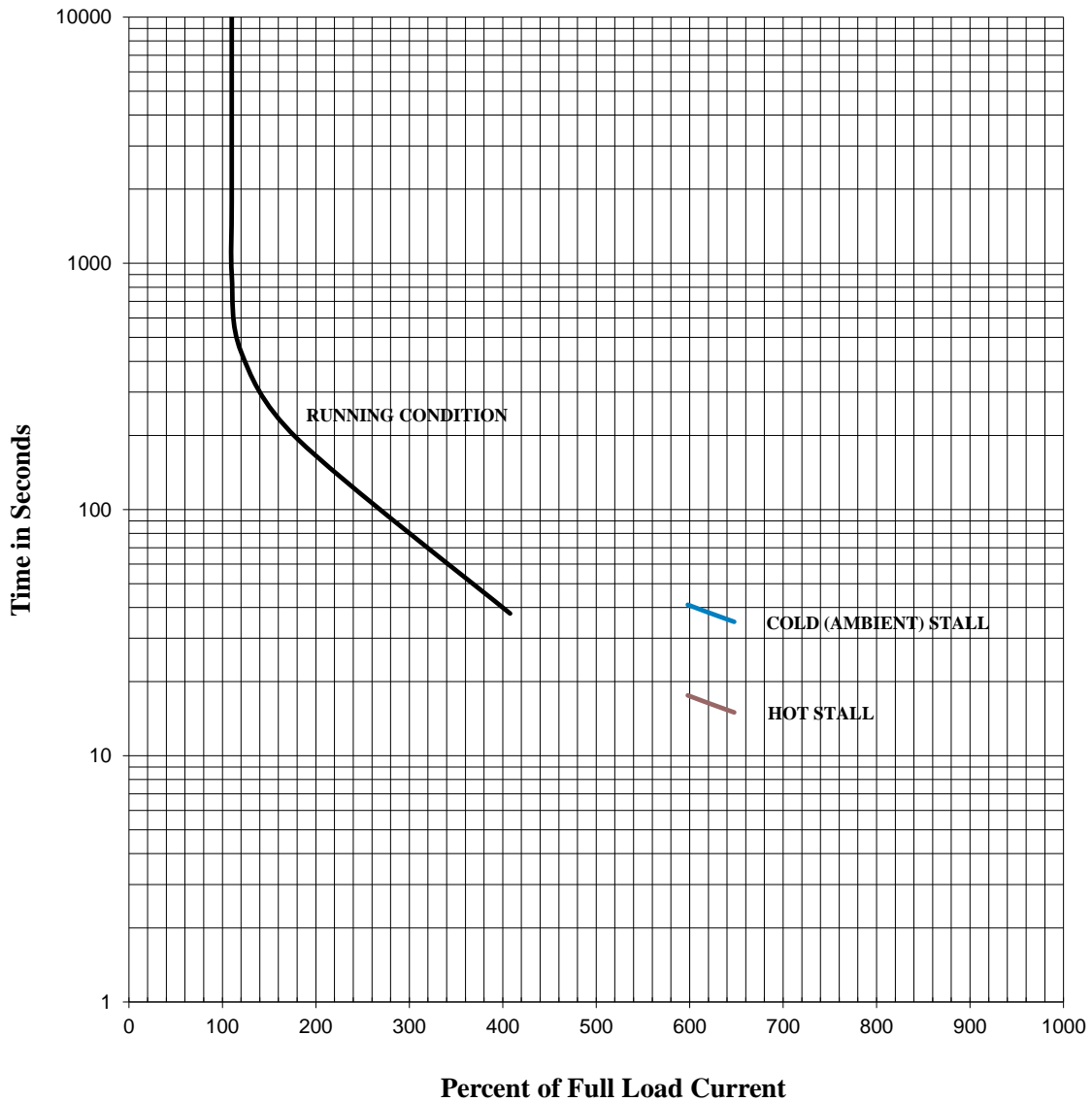
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7FS-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: FBK1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: N	DUTY: Cont.
MODEL No.: X756SDMV7FS-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

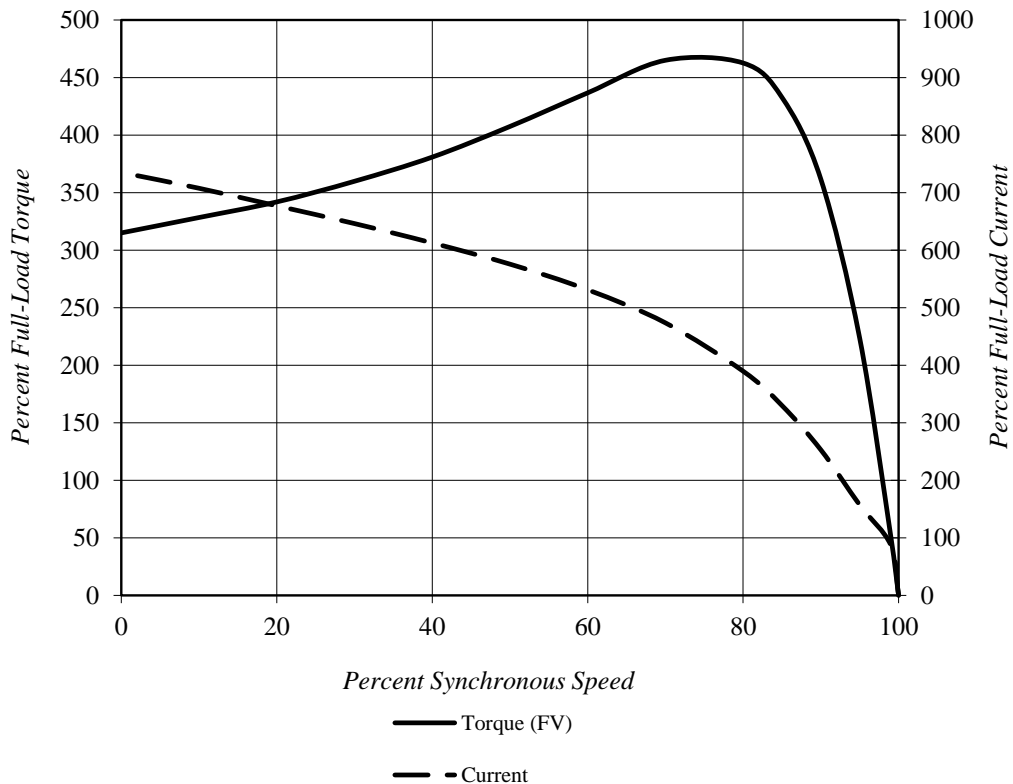
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	X756SDMV7FS-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

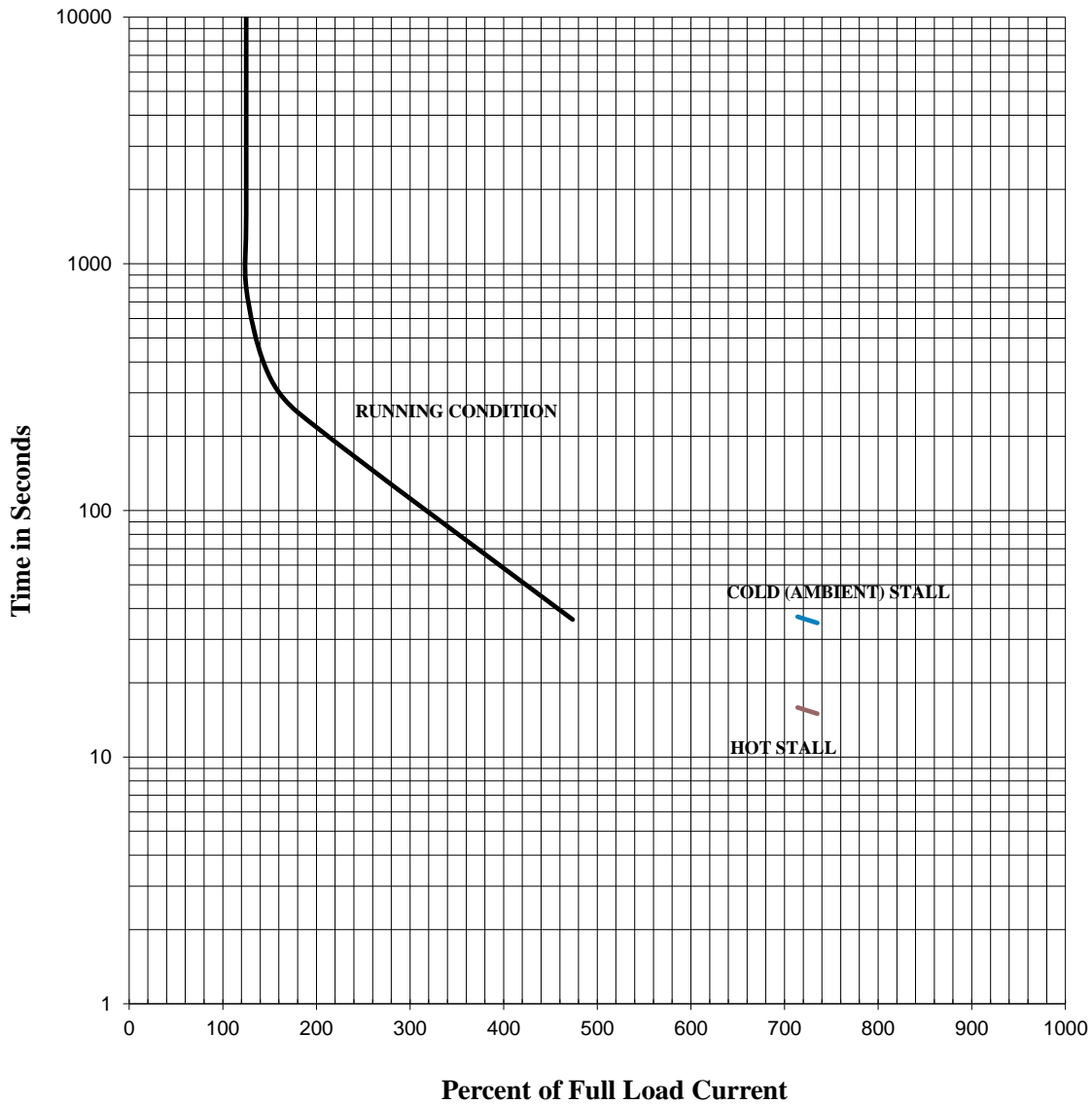
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	X756SDMV7FS-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:**