

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.

B35-FLANGE MOTOR  
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V  
FRAME: 160M

TOLERANCES	
X.	±2.0
X.X	±0.5
X.XX	±0.1

3HFN000235

MAXIMUM MOTOR WEIGHT	
- lbs.	
- kgs.	

NO	REVISION	DRAWN BY	DATE	CHECK
01	Adding tolerance dimension "H"	T.Danh	Sep-10-18	B.Quynh



DRAWN BY: HIEN. NGUYEN  
CHECK BY: B.X.QUYNH  
APPROVED BY: JAY BUGBEE  
www.toshiba.com/ind

TOSHIBA  
TOSHIBA INTERNATIONAL CORPORATION

<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: 400	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160M	ENCL: TEFC	FLAMPS: 15.4	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7GS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.78	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 105	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 295	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.0	FULL LOAD: 78.0
3/4 LOAD: 90.1	3/4 LOAD: 73.7
1/2 LOAD: 88.7	1/2 LOAD: 63.9

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:** 9/10/2020

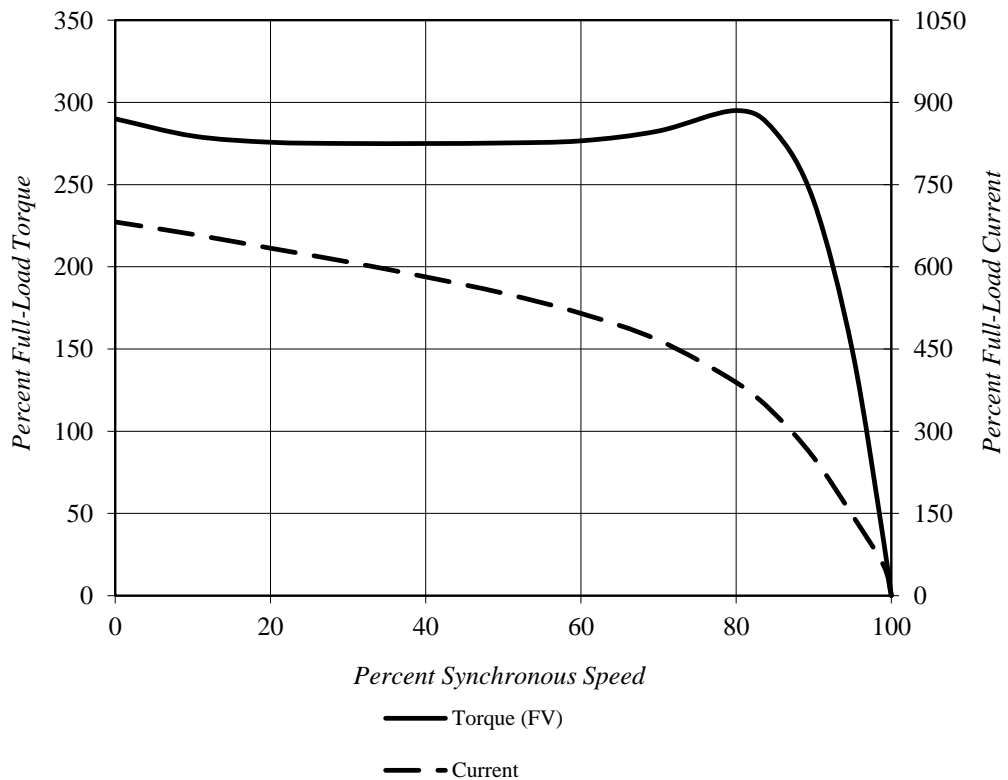
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	15.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)

<b>Locked Rotor Amps:</b>	105 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	290%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	295%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	55 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6Y75 (7.5kW)

**Prepared by:** Zichao Xie

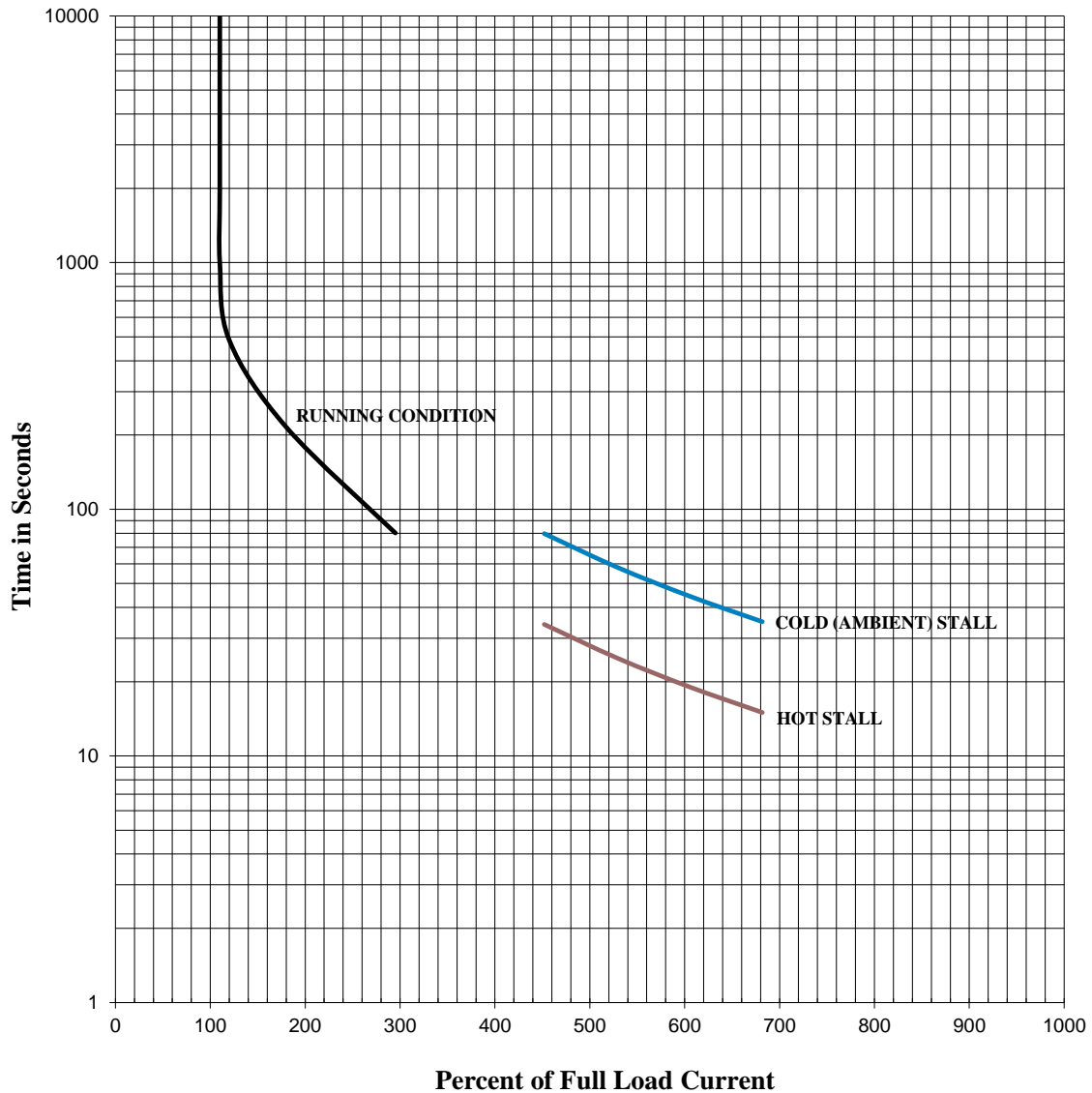
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	15.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH6Y75 (7.5kW)

**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: 415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160M	ENCL: TEFC	FLAMPS: 14.9	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7GS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 109	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 315	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 315	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.6	FULL LOAD: 77.5
3/4 LOAD: 90.5	3/4 LOAD: 72.2
1/2 LOAD: 88.8	1/2 LOAD: 61.4

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

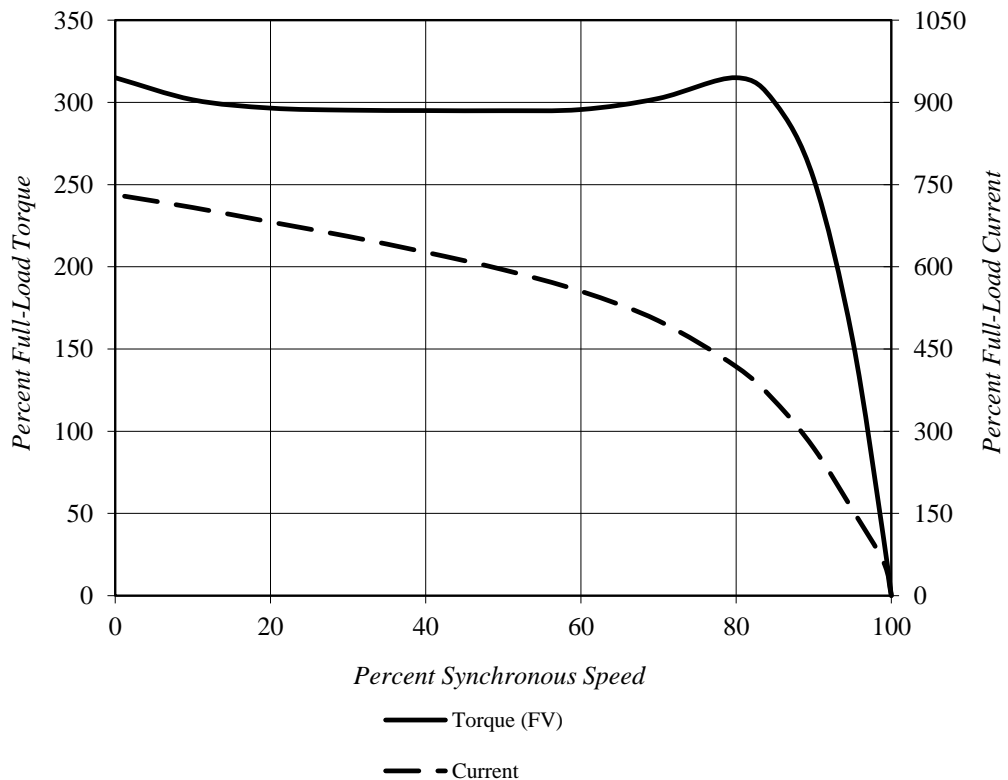
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	14.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)

<b>Locked Rotor Amps:</b>	109 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	315%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	315%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	55 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6Y75 (7.5kW)

**Prepared by:** Zichao Xie

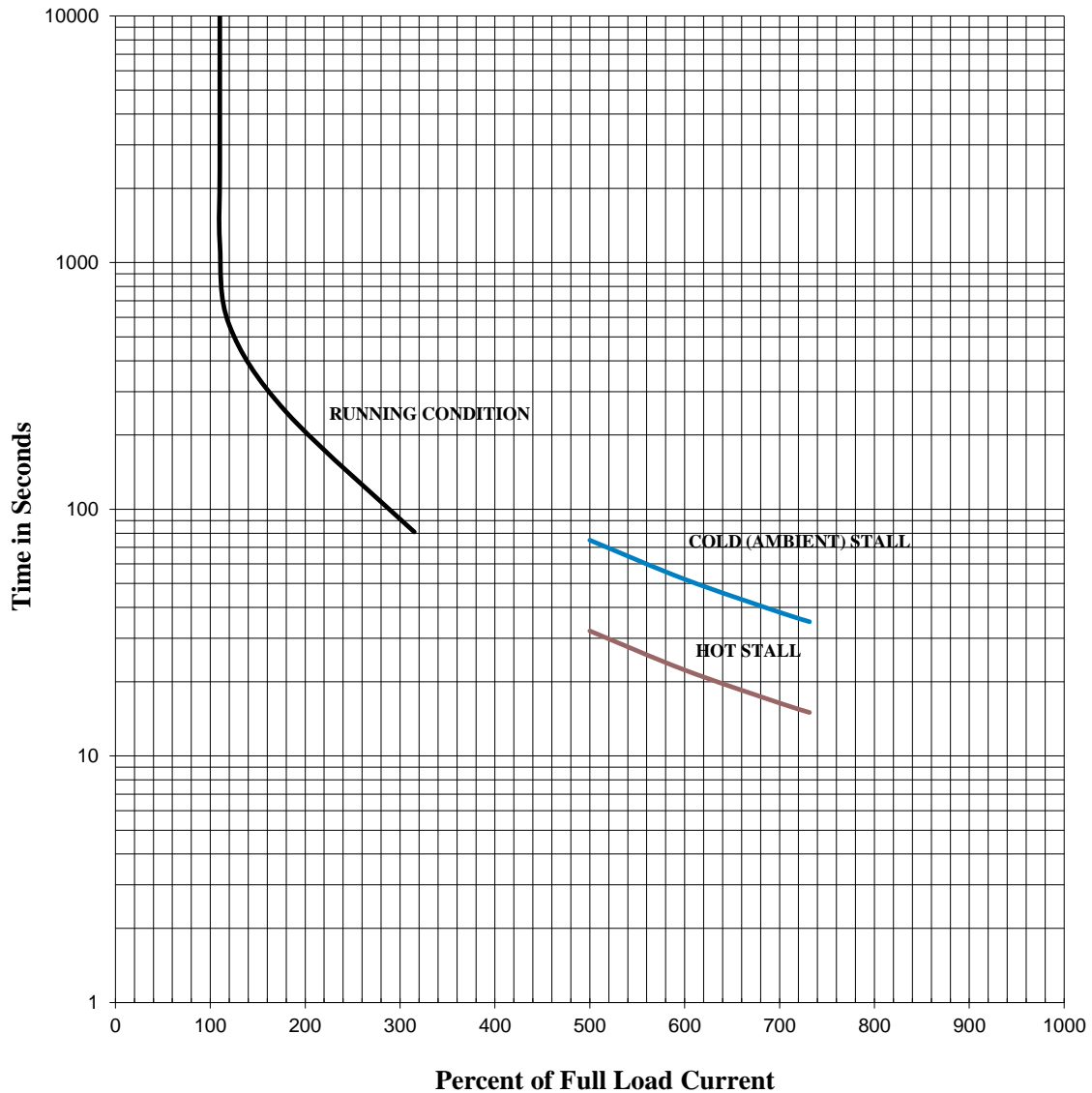
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	14.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH6Y75 (7.5kW)

**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
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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: 1000
FRAME: 160M	ENCL: TEFC	FLAMPS: 15.9	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7GS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 98	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 250	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 270	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.5	FULL LOAD: 80.1
3/4 LOAD: 89.9	3/4 LOAD: 76.5
1/2 LOAD: 89.0	1/2 LOAD: 67.8

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



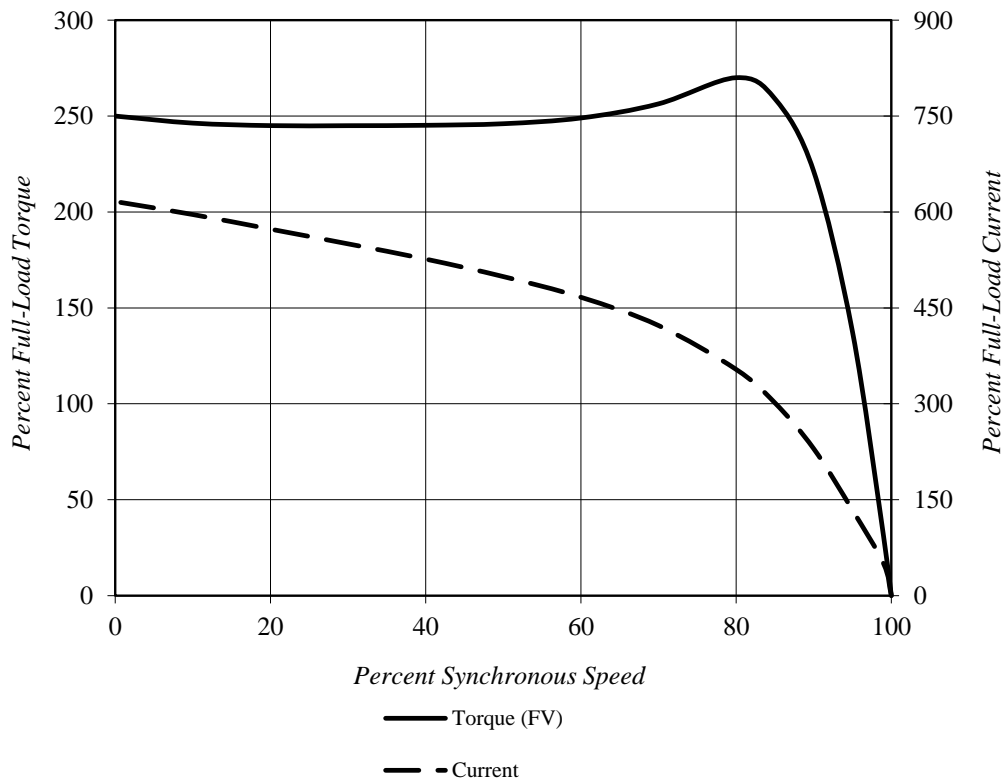
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	15.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)

<b>Locked Rotor Amps:</b>	98 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	250%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	270%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	55 lb-ft		

### Design Values



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**D.E. Curve #:** GH6Y75 (7.5kW)

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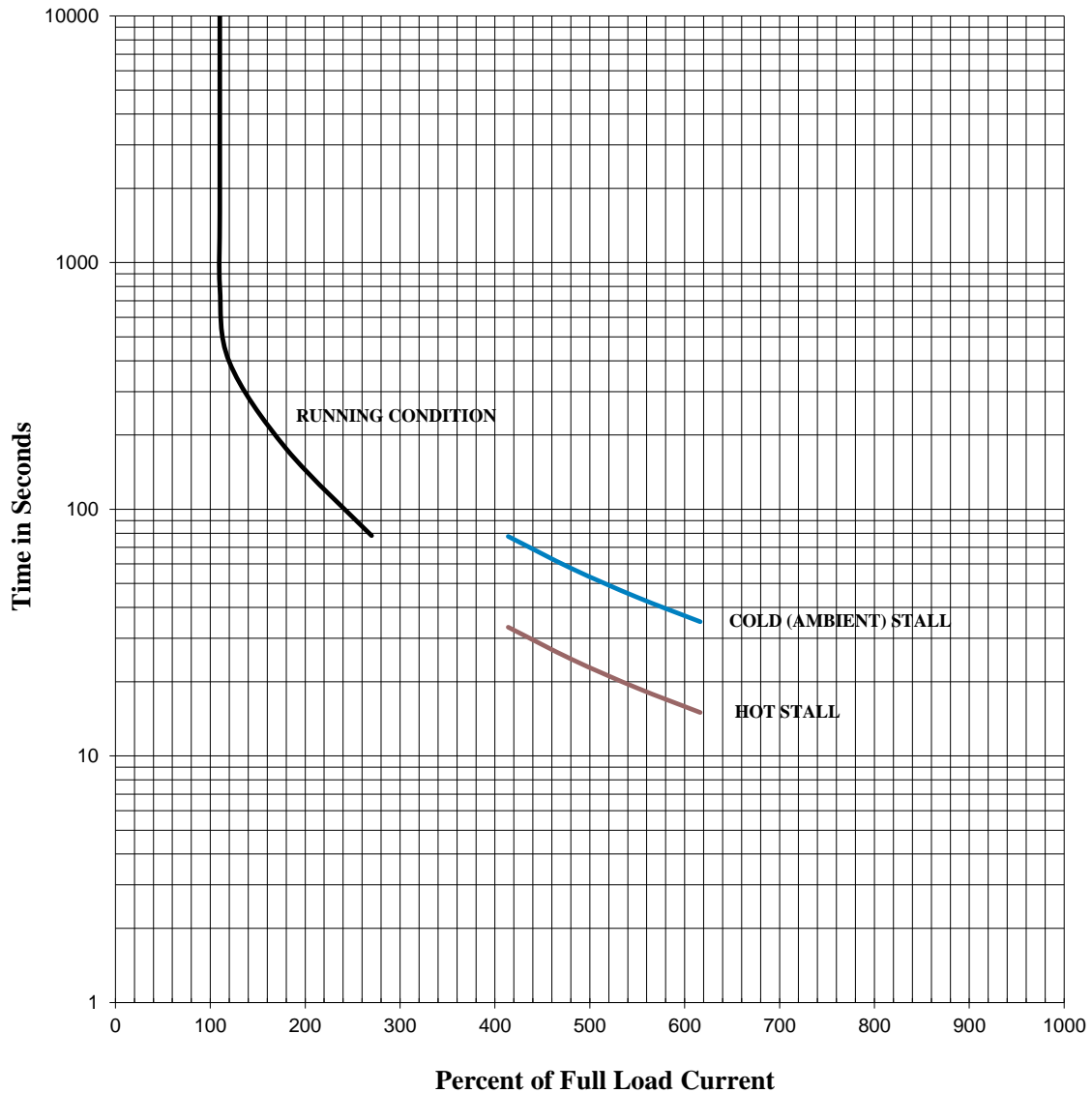
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	15.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	7.5	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	965	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6Y75 (7.5kW)

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<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.: 10	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 160M	ENCL: TEFC	FLAMPS: 13.5	FLRPM: 1170
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: Y756SDMW7GS-PL		KW: 7.5	
NOM. EFF.: 91.0	MIN. EFF.: -	P.F.: 76.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 106	FULL LOAD (lb-ft.): 45	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 335	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 310	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.4	FULL LOAD: 76.3
3/4 LOAD: 91.0	3/4 LOAD: 71.2
1/2 LOAD: 89.0	1/2 LOAD: 60.7

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE,  
FREQUENCY AND SINWAVE POWER INPUT.  
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THE DECLARED LOCKED ROTOR CURRENT HAS A TOLERANCE OF 20%.  
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\* 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).

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**DATE:** 9/10/2020

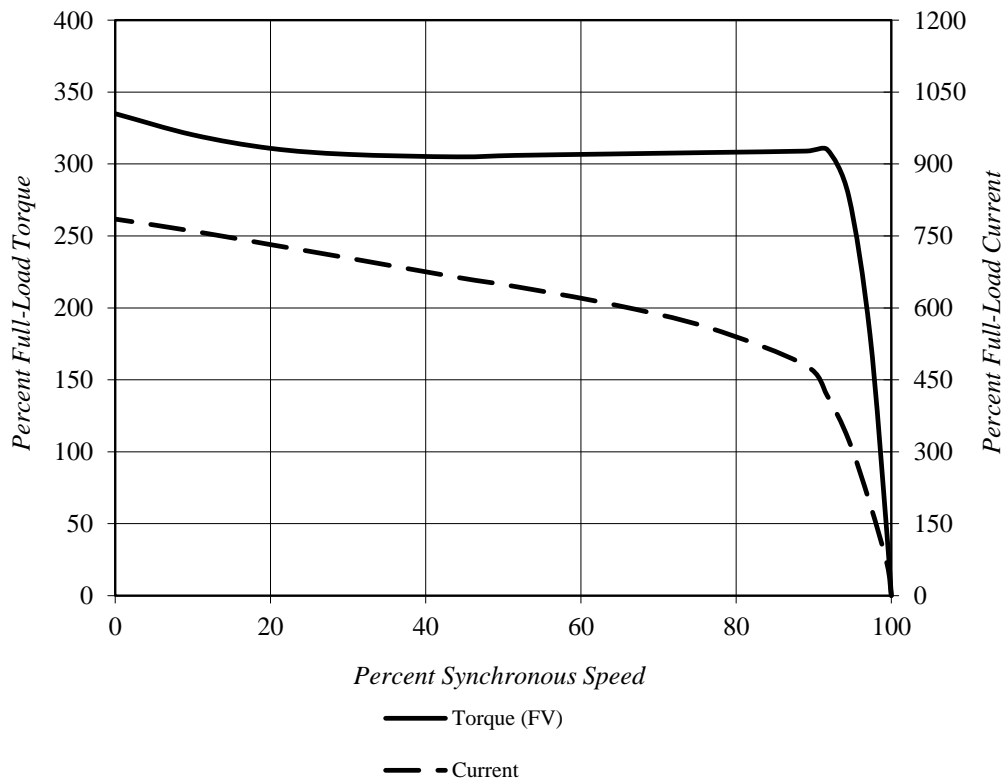
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	13.5
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	10	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	1170	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)

<b>Locked Rotor Amps:</b>	106 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	335%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	310%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	45 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6Y75 (7.5kW)

**Prepared by:** Zichao Xie

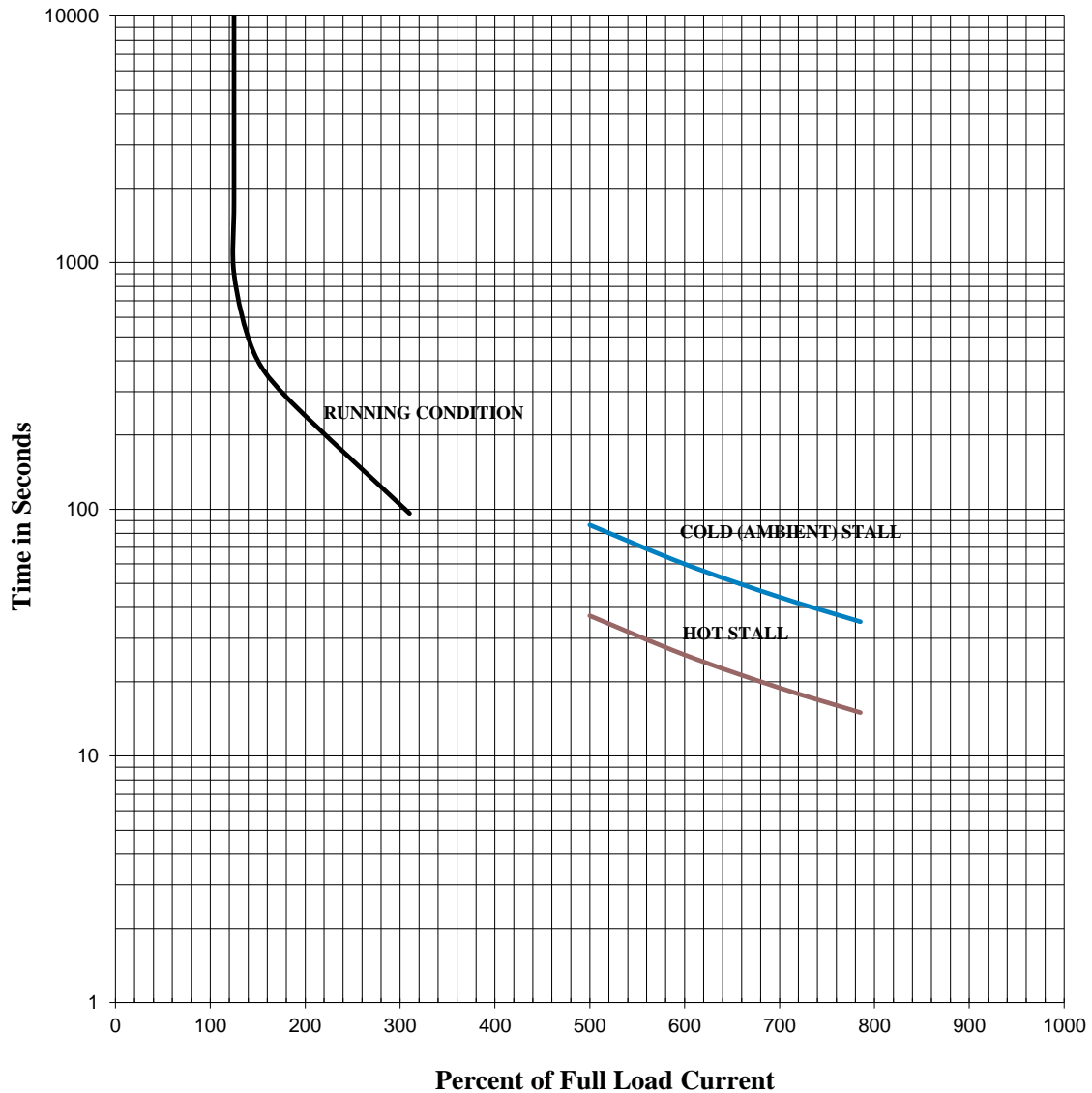
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y756SDMW7GS-PL			<b>FLAmps:</b>	13.5
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	160M
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	10	<b>Rotor Inertia:</b>	2.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/10/2020
<b>FLRPM:</b>	1170	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6Y75 (7.5kW)



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**D.E. Curve #:** GH6Y75 (7.5kW)

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