

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  
OL DRAWING IEC GLOBAL

TYPE: 4-6P -  
FRAME: 225S

TOLERANCES  
400V ±2.0  
X.X ±0.5  
X.XX ±0.1

3HFN000171  
**TOSHIBA**  
TOSHIBA INTERNATIONAL CORPORATION

MAXIMUM MOTOR WEIGHT  
-- lbs.  
-- kgs.

01	Change to fancover	T.Danh	Feb-08-18	Q.Hung
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: 400	3 PH / 50 Hz	S. RPM: 1000
FRAME: 225S	ENCL: TEFC	FLAMPS: 59	FLRPM: 980
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0306SDMW7FS-P		kW: 30	
NOM. EFF.: 92.9	MIN. EFF.: -	cosØ 0.78	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 383	FULL LOAD (lb-ft.): 215	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 335	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 380	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.2	FULL LOAD: 78.4
3/4 LOAD: 93.8	3/4 LOAD: 72.8
1/2 LOAD: 92.2	1/2 LOAD: 61.7

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE,  
FREQUENCY AND SINEWAVE 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).

**CERTIFIED BY:** Zichao Xie  
**DATE:** 9/14/2020

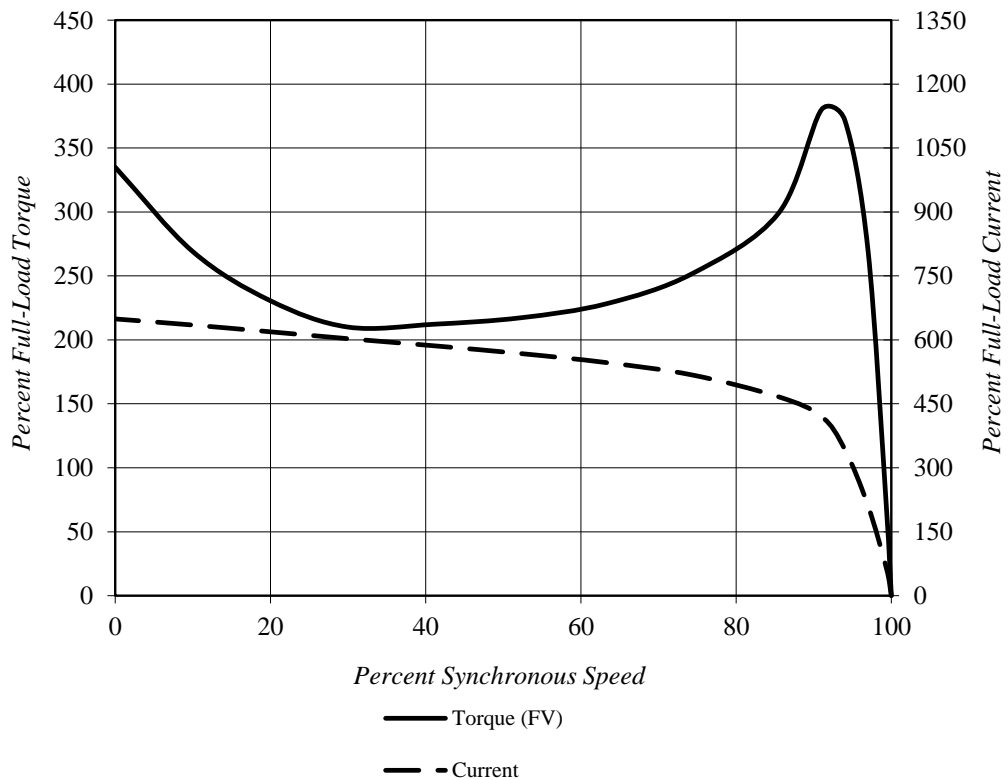
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	59
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/14/2020
<b>FLRPM:</b>	980	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)

<b>Locked Rotor Amps:</b>	383 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	335%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	380%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	215 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E. Curve #:** GH6030 (30kW)

**Prepared by:** Zichao Xie

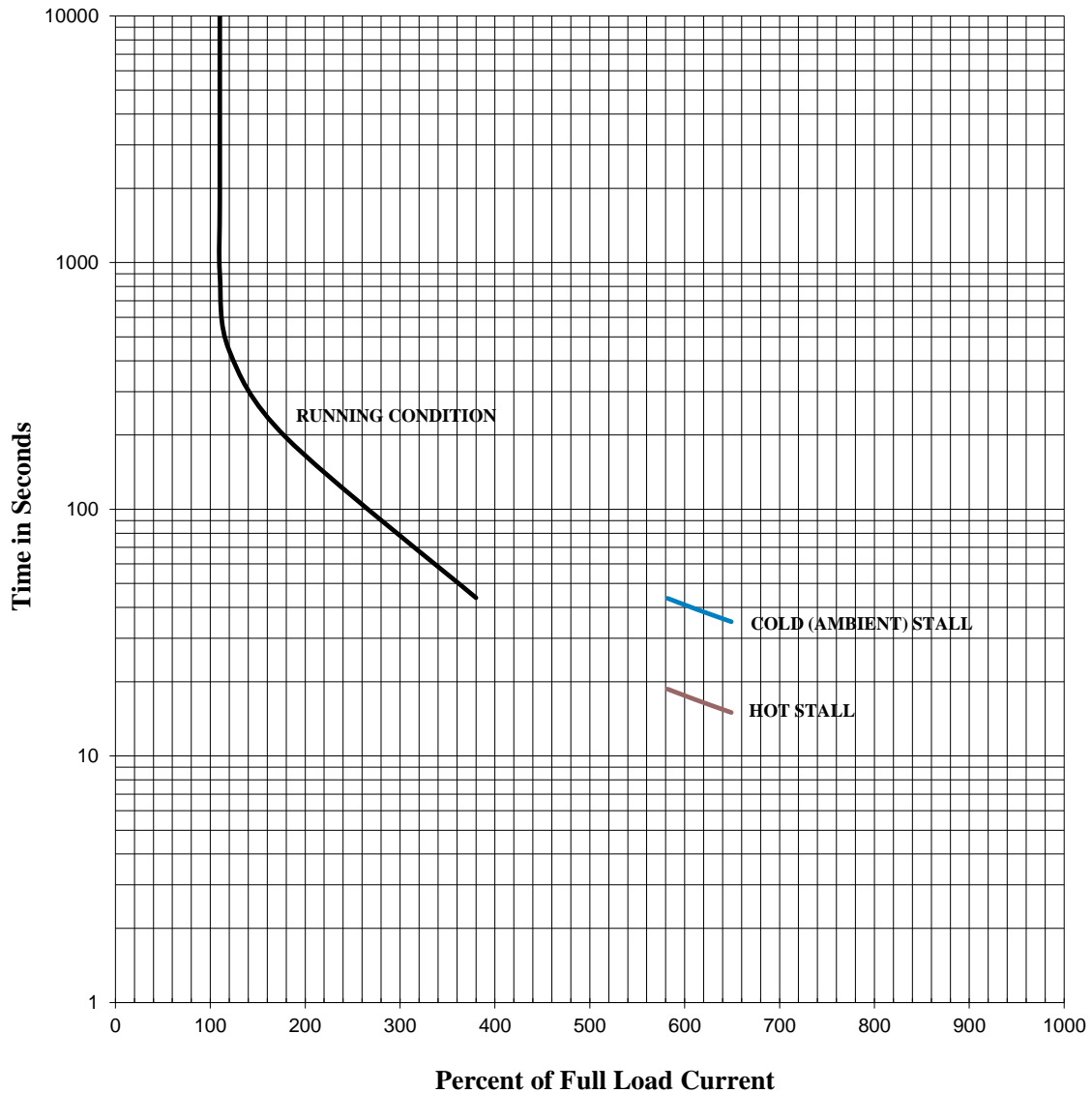
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	59
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/14/2020
<b>FLRPM:</b>	980	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH6030 (30kW)

**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: 225S	ENCL: TEFC	FLAMPS: 58	FLRPM: 985
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0306SDMW7FS-P		kW: 30	
NOM. EFF.: 92.9	MIN. EFF.: -	cosØ 0.76	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 400	FULL LOAD (lb-ft.): 214	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 365	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 405	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.3	FULL LOAD: 76.7
3/4 LOAD: 93.7	3/4 LOAD: 70.4
1/2 LOAD: 91.9	1/2 LOAD: 58.6

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:** 9/14/2020

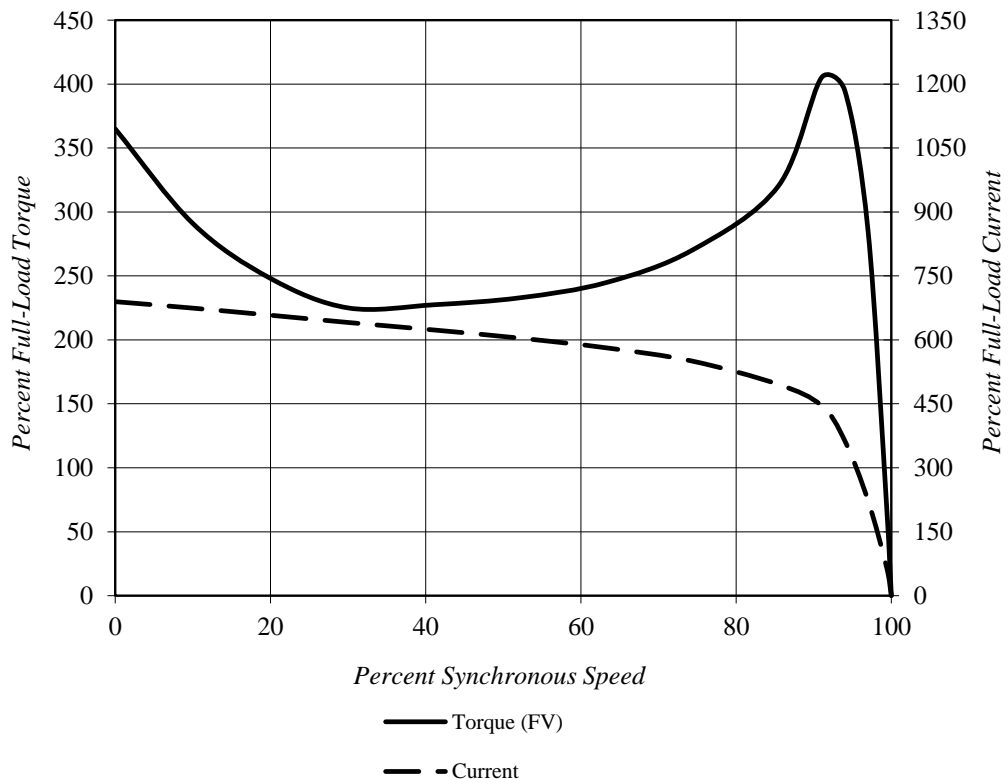
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	58
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/14/2020
<b>FLRPM:</b>	985	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)

<b>Locked Rotor Amps:</b>	400 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	365%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	405%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	214 lb-ft		

### *Design Values*



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**D.E.Curve #:** GH6030 (30kW)

**Prepared by:** Zichao Xie

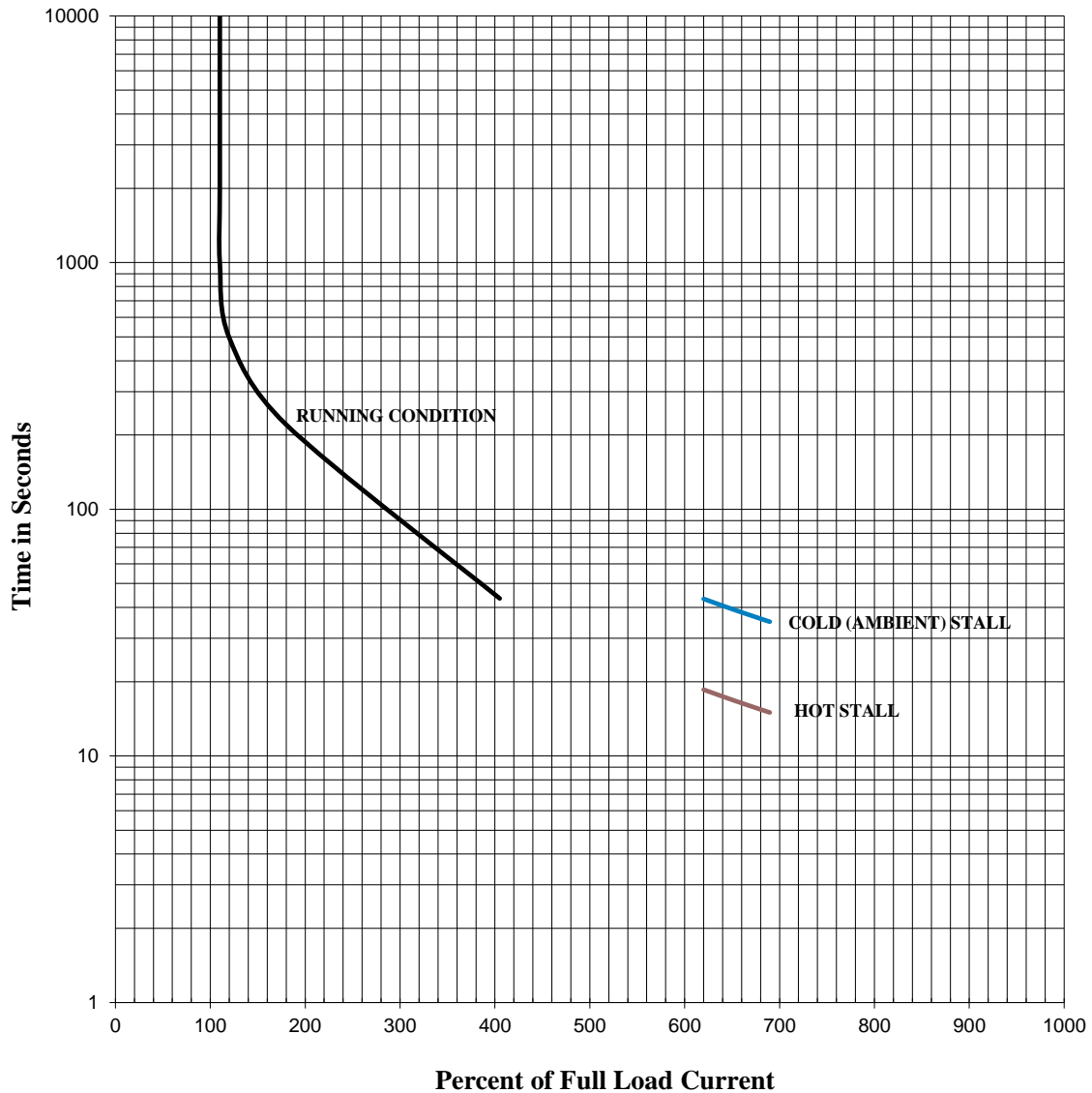
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	58
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/14/2020
<b>FLRPM:</b>	985	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)



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**D.E. Curve #:** GH6030 (30kW)

**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: 225S	ENCL: TEFC	FLAMPS: 61	FLRPM: 980
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0306SDMW7FS-P		kW: 30	
NOM. EFF.: 92.9	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 360	FULL LOAD (lb-ft.): 215	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 295	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 350	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.0	FULL LOAD: 80.2
3/4 LOAD: 93.7	3/4 LOAD: 75.4
1/2 LOAD: 92.4	1/2 LOAD: 65.4

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%.  
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**CERTIFIED BY:** Zichao Xie  
**DATE:** 9/11/2020



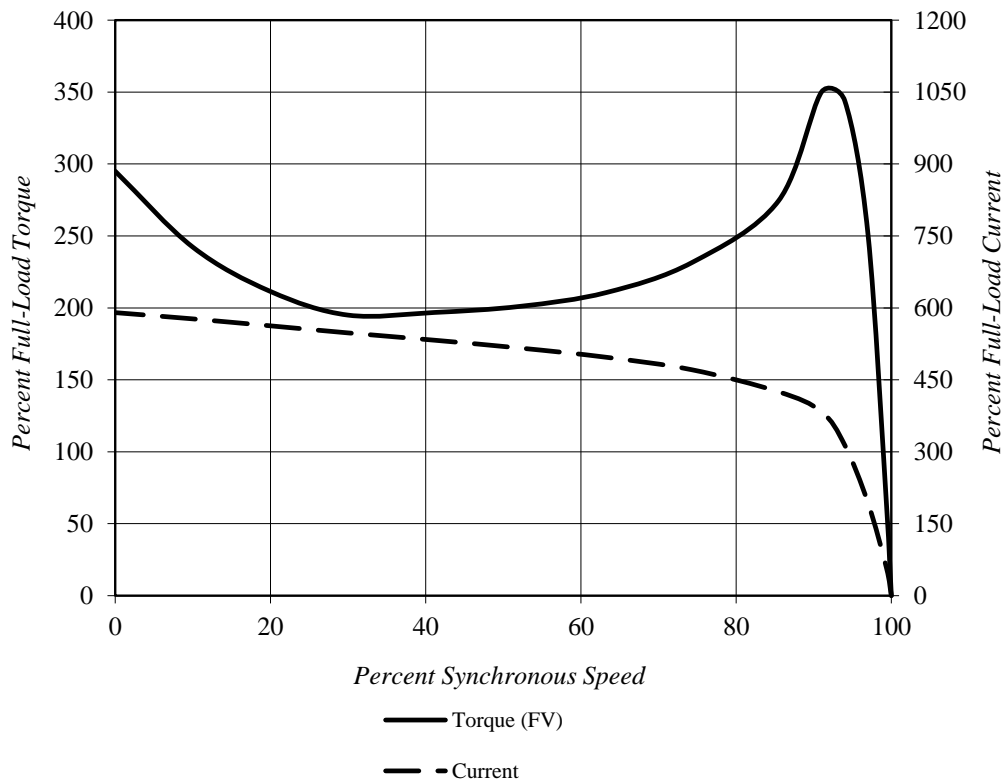
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	61
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	980	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)

<b>Locked Rotor Amps:</b>	360 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	295%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	350%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	215 lb-ft		

### *Design Values*



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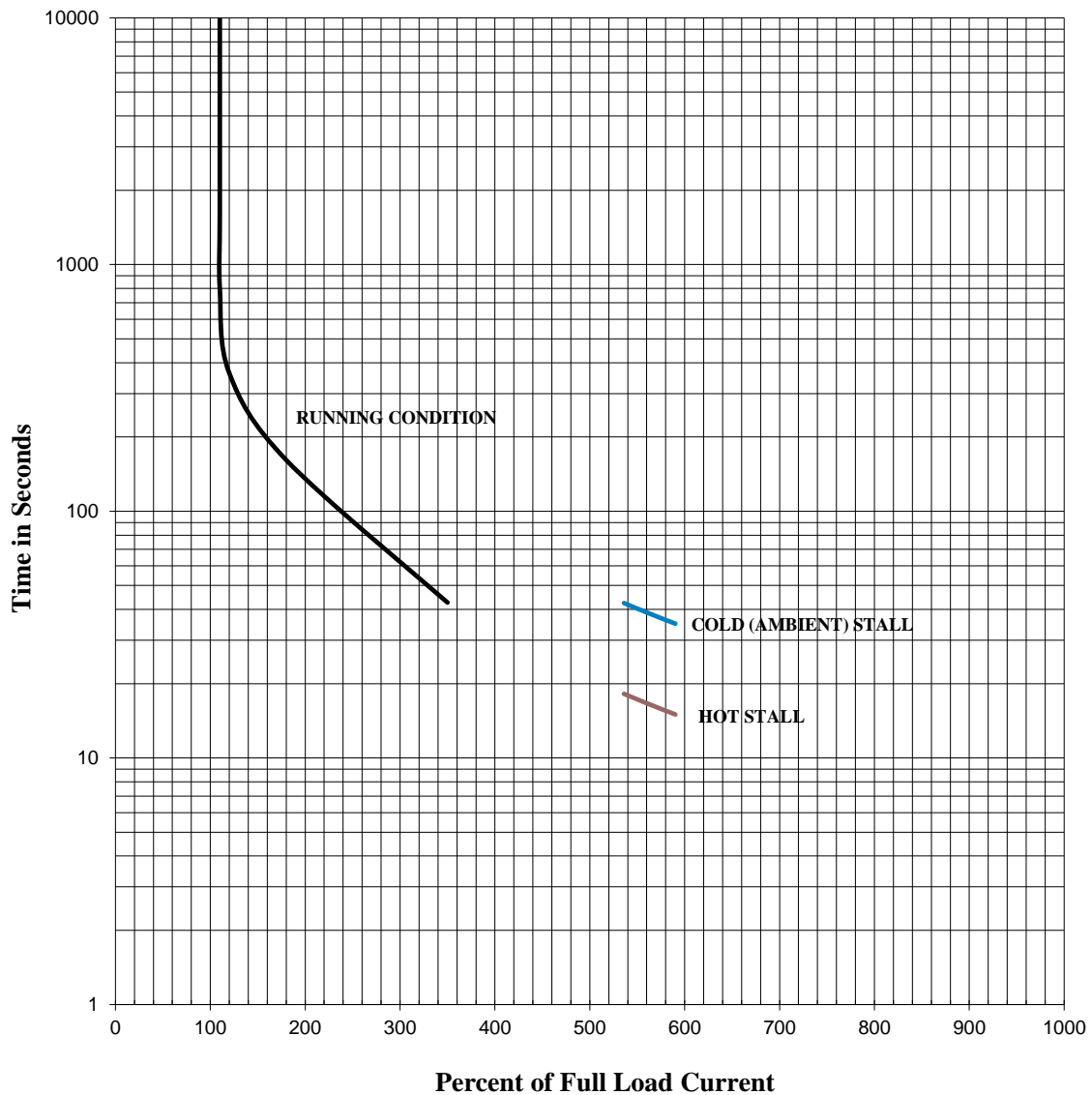
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# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	61
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	30	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	980	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)



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	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 40	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 225S	ENCL: TEFC	FLAMPS: 52	FLRPM: 1185
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0306SDMW7FS-P		kW: 30	
NOM. EFF.: 94.1	MIN. EFF.: -	P.F.: 76.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 499	FULL LOAD (lb-ft.): 178	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 410	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 410	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.8	FULL LOAD: 76.0
3/4 LOAD: 94.1	3/4 LOAD: 69.9
1/2 LOAD: 92.1	1/2 LOAD: 58.4

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).

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**DATE:** 9/11/2020

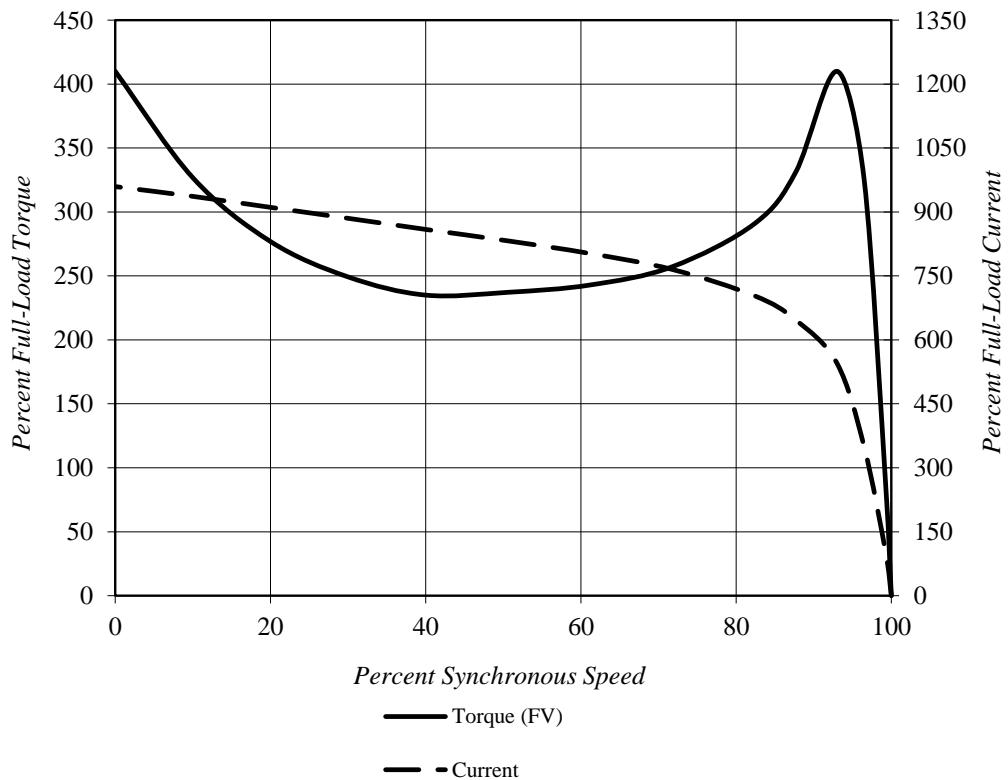
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	52
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	40	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	1185	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)

<b>Locked Rotor Amps:</b>	499 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	410%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	410%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	178 lb-ft		

### Design Values



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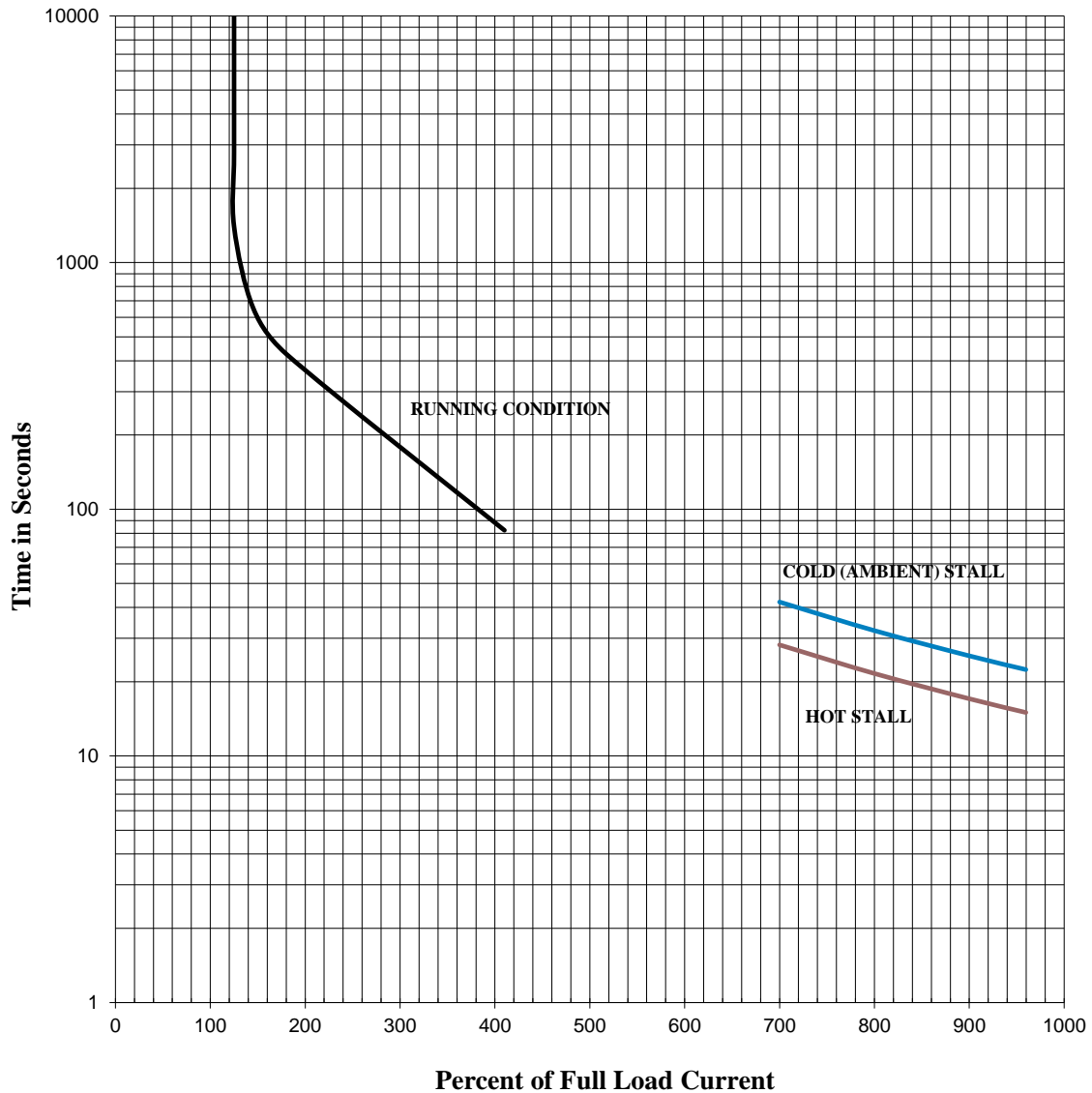
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# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0306SDMW7FS-P			<b>FLAmps:</b>	52
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	225S
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	40	<b>Rotor Inertia:</b>	18.7 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	1185	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6030 (30kW)



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