

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: 2-4-6P - 400V	TOLERANCES					
	FRAME: 200L	X. ± 2.0					
3HFN000170		X.X ± 0.5					DRAWN BY: HIEN. NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/ind
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		X.XX ± 0.1					
		MAXIMUM MOTOR WEIGHT					
		-- lbs.	02	change to M20S-EB	T.Danh	May-07-18	Q.Hung
		-- kgs.	01	change to fancover	T.Danh	Feb-08-18	Q.Hung
			NO	REVISION	DRAWN BY	DATE	CHECK

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: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7FS-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

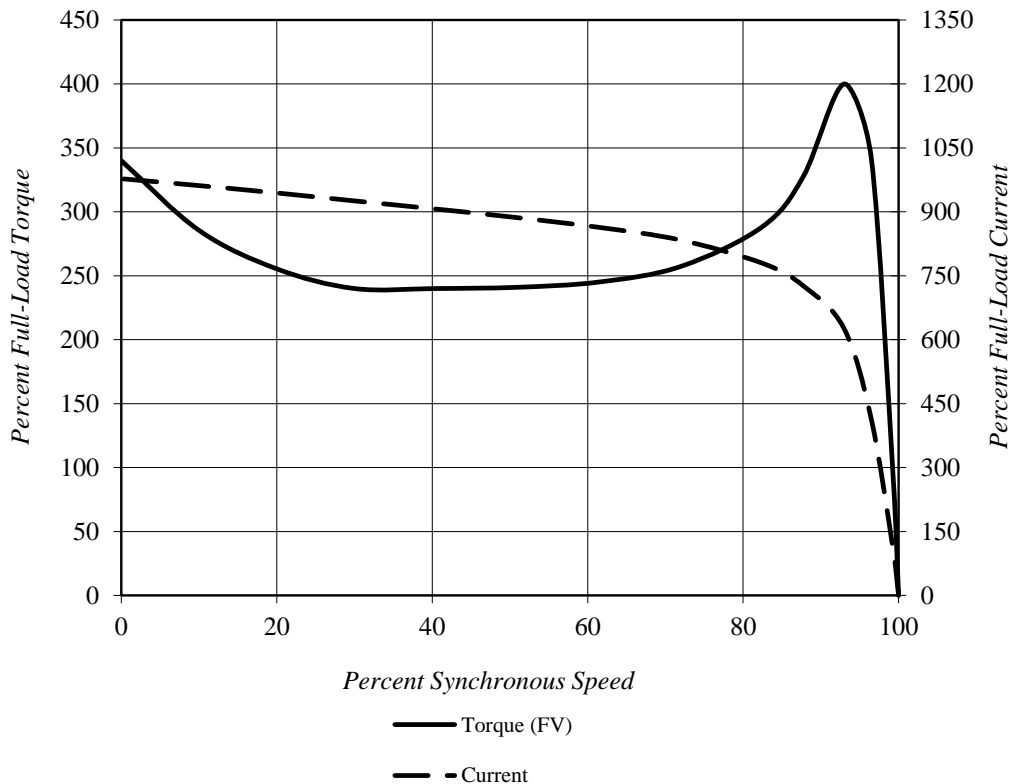
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			FLAmps:	67
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2970	Load Inertia:	N/A	File:	GH2037 (37kW)

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

Design Values



Comments: PROJECT -

D.E. Curve #: GH2037 (37kW)

Prepared by: Zichao Xie

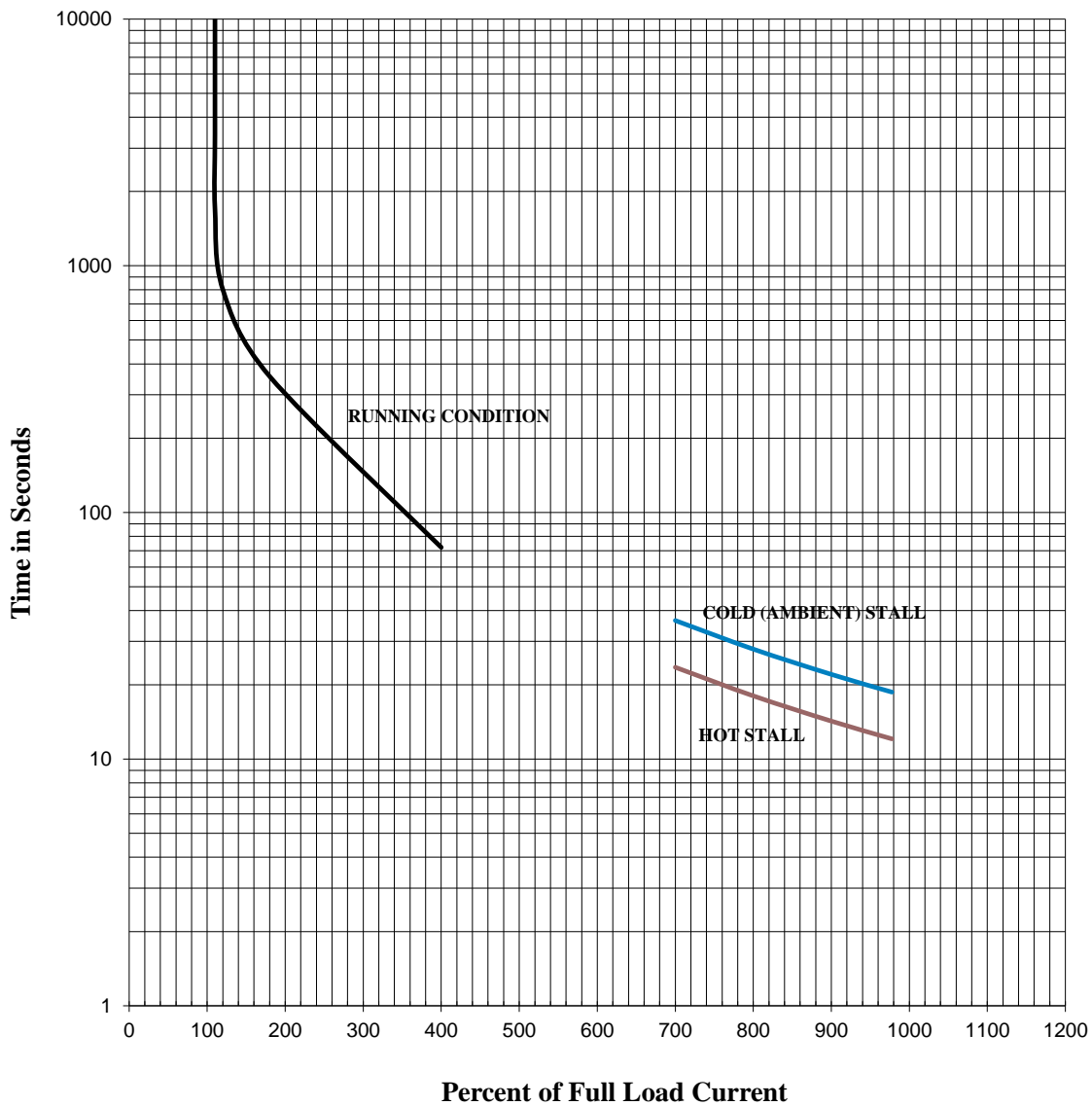
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			FLAmps:	67
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2970	Load Inertia:	N/A	File:	GH2037 (37kW)



Comments: PROJECT -

D.E. Curve #: GH2037 (37kW)

Prepared by: Zichao Xie

Checked by:

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Industrial Division / Houston Motor Plant

SQUIRREL CAGE INDUCTION MOTOR
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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: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7FS-P		kW: 37	
NOM. EFF.: 93.7	MIN. EFF.: -	cosØ 0.81	

AMPERAGE

LOCKED ROTOR: 683

TORQUES

FULL LOAD (lb-ft.): 88
LOCKED ROTOR (%): 370
BREAK DOWN (%): 430

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 95.3
3/4 LOAD: 94.1
1/2 LOAD: 91.4

POWER FACTOR

FULL LOAD: 81.8
3/4 LOAD: 76.5
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).

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DATE: 1/14/2020

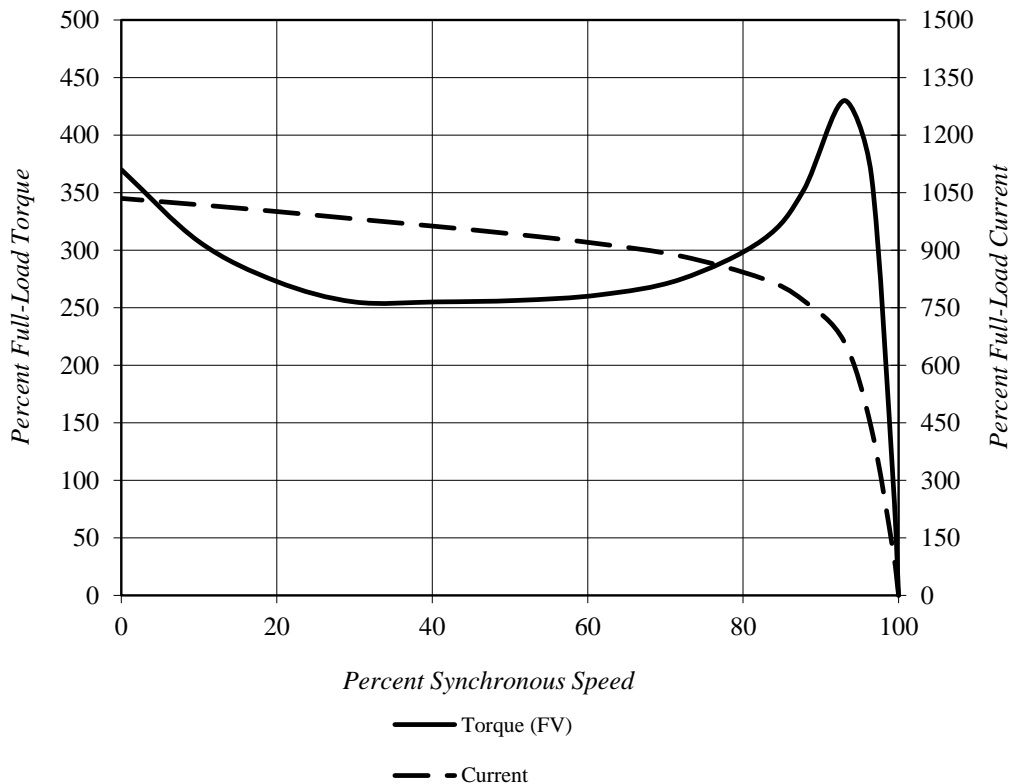
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			FLAmps:	66
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2970	Load Inertia:	N/A	File:	GH2037 (37kW)

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

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie

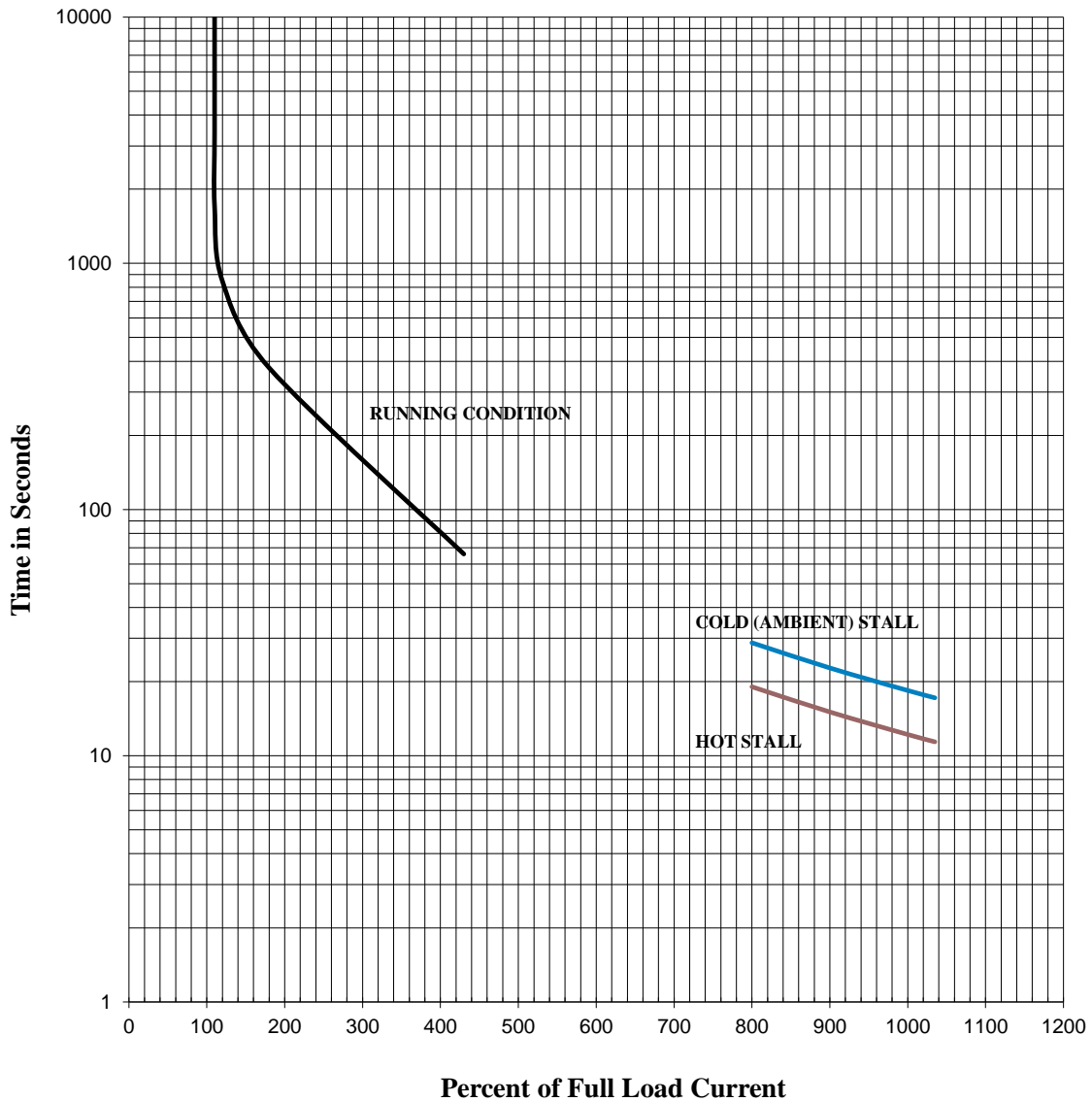
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			FLAmps:	66
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2970	Load Inertia:	N/A	File:	GH2037 (37kW)



Comments: PROJECT _____

D.E. Curve #: GH2037 (37kW)

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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: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0372SDMW7FS-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).

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DATE: 1/14/2020

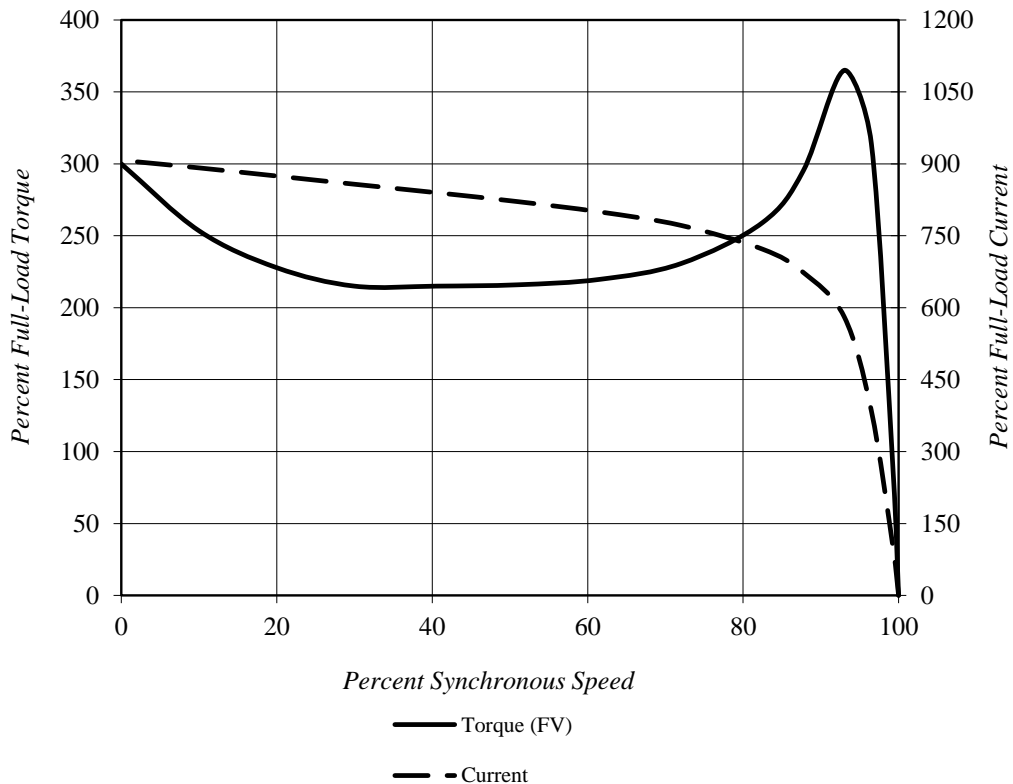
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			FLAmps:	68
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2965	Load Inertia:	N/A	File:	GH2037 (37kW)

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

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie

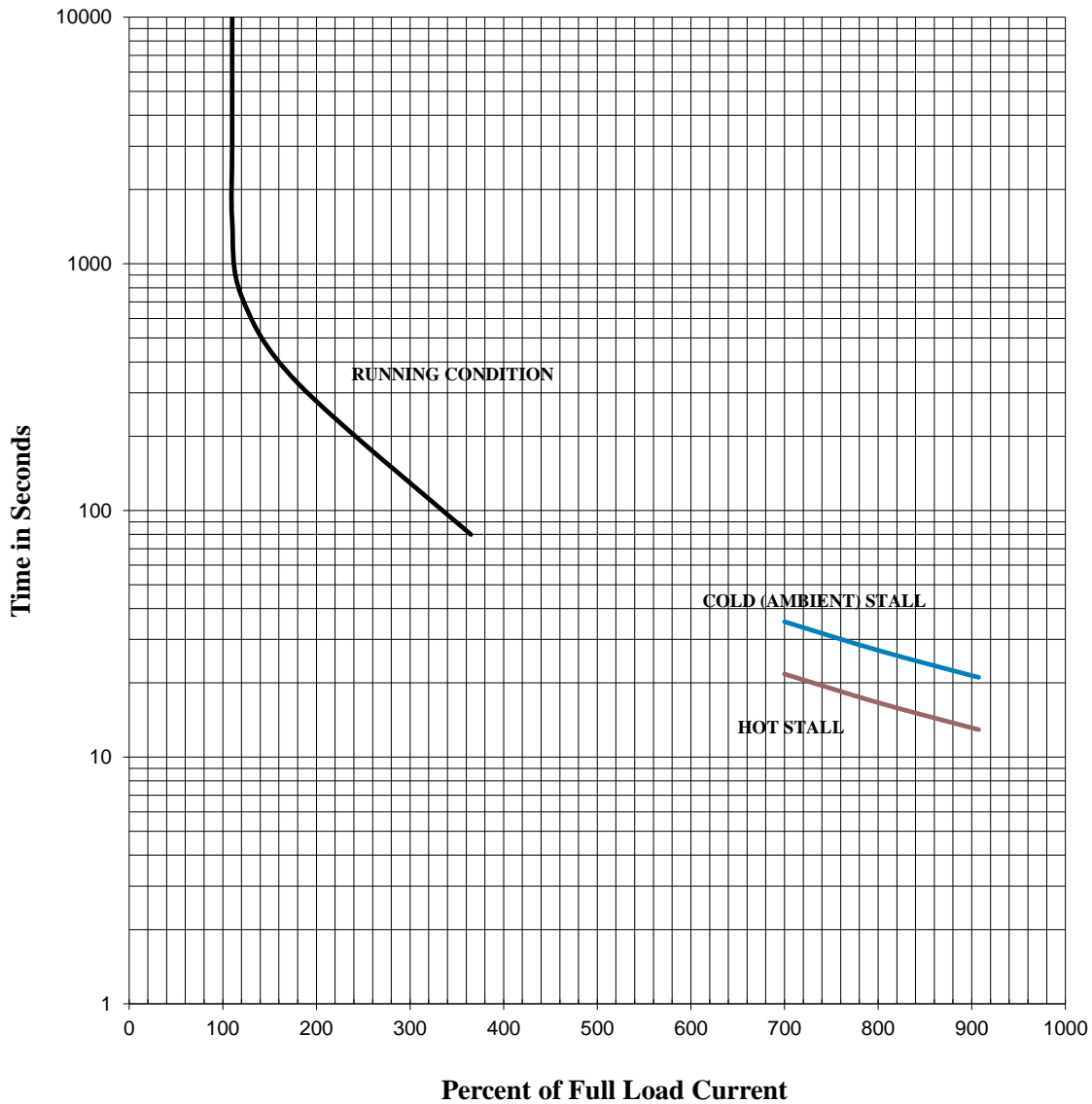
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			FLAmps:	68
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	2965	Load Inertia:	N/A	File:	GH2037 (37kW)



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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: FCK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: 0372SDMW7FS-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.

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DATE: 1/14/2020

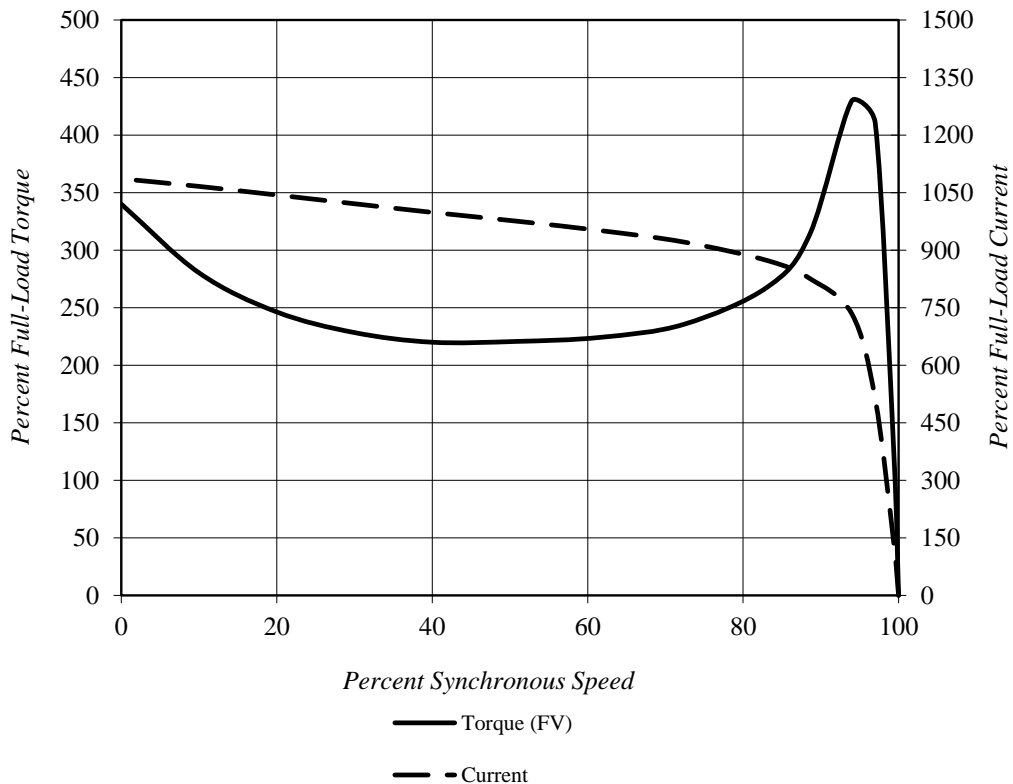
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			FLAmps:	58
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	50	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	3570	Load Inertia:	N/A	File:	GH2037 (37kW)

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

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie

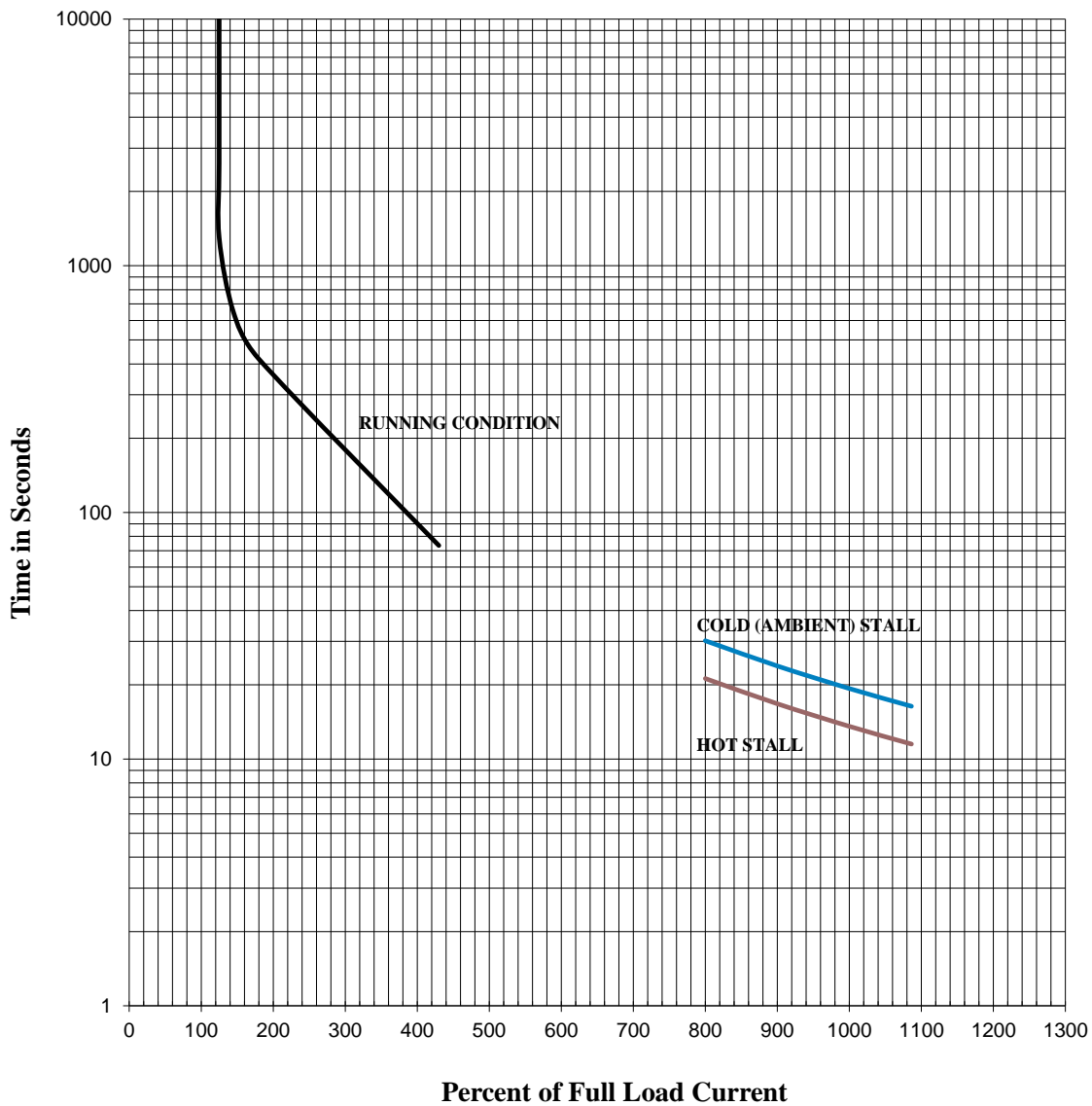
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			FLAmps:	58
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	50	Rotor Inertia:	7.9 lb-ft ²	Date:	1/14/2020
FLRPM:	3570	Load Inertia:	N/A	File:	GH2037 (37kW)



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