

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
		X.XX ±0.1					
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		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: 53	FLRPM: 2960
FORM: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0302SDMW7FS-P		kW: 30	
NOM. EFF.: 93.3	MIN. EFF.: -	cosØ 0.86	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 464	FULL LOAD (lb-ft.): 71	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 300	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 360	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.6	FULL LOAD: 86.5
3/4 LOAD: 93.7	3/4 LOAD: 83.4
1/2 LOAD: 91.5	1/2 LOAD: 76.1

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

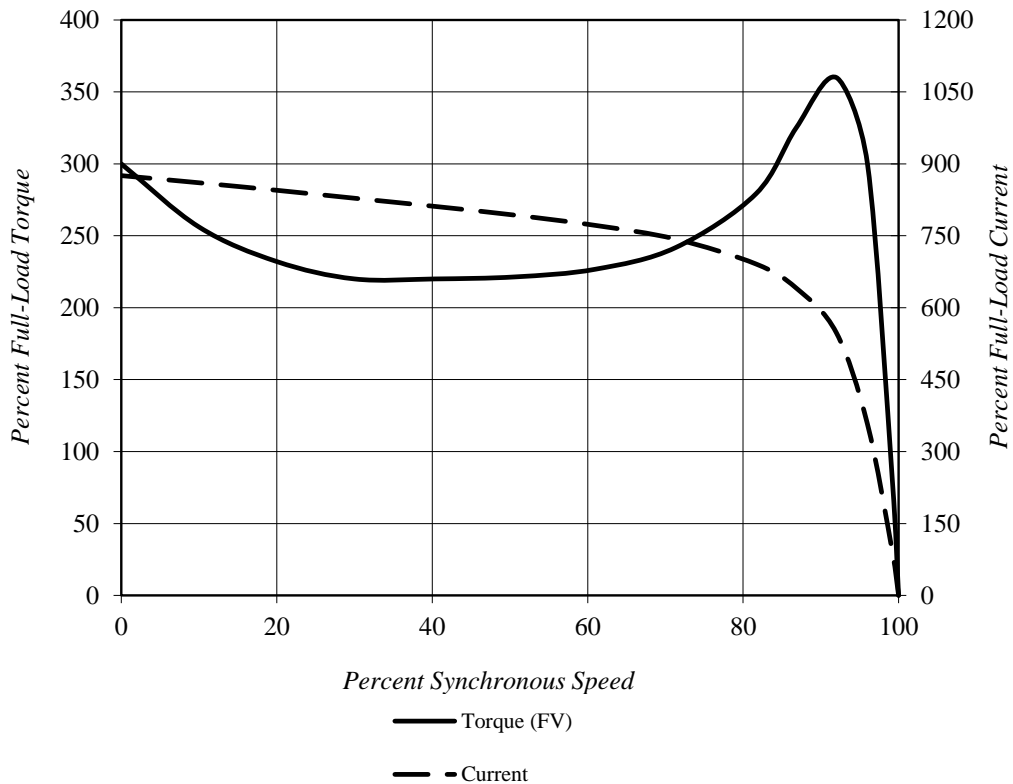
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0302SDMW7FS-P			FLAmps:	53
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2960	Load Inertia:	N/A	File:	GH2030 (30kW)

Locked Rotor Amps:	464 A	Load Type:	N/A
Locked Rotor Torque:	300%	Starting at:	N/A
Breakdown Torque:	360%	Accel. Time:	N/A
Rated Torque:	71 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH2030 (30kW)

Prepared by: Zichao Xie

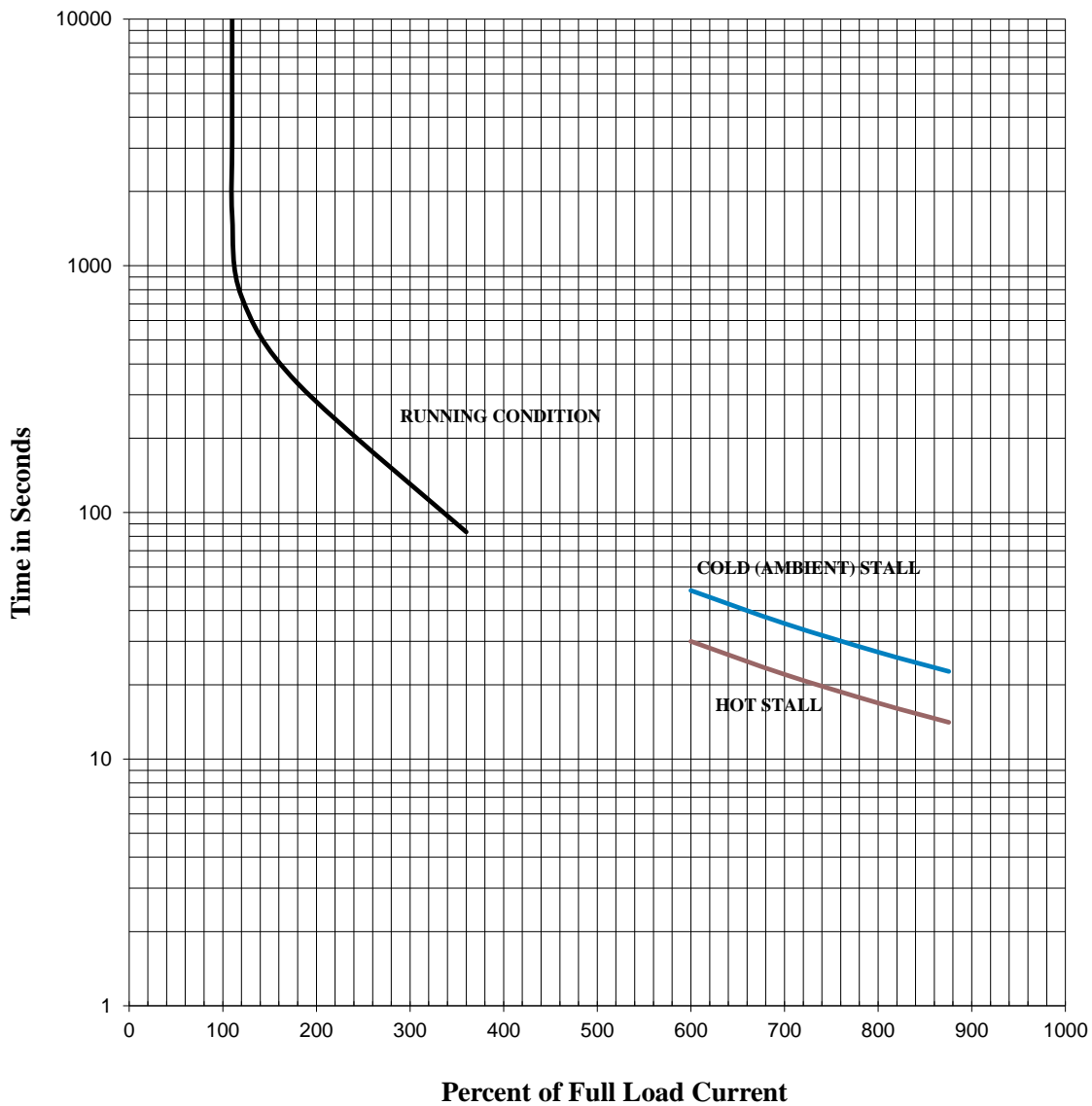
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0302SDMW7FS-P			FLAmps:	53
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2960	Load Inertia:	N/A	File:	GH2030 (30kW)



Comments: PROJECT _____

D.E. Curve #: GH2030 (30kW)

Prepared by: Zichao Xie

Checked by:

TOSHIBA INTERNATIONAL CORPORATION
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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: 52	FLRPM: 2965
FORM: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0302SDMW7FS-P		kW: 30	
NOM. EFF.: 93.3	MIN. EFF.: -	cosØ 0.84	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 483	FULL LOAD (lb-ft.): 71	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 325	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 385	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.7	FULL LOAD: 84.8
3/4 LOAD: 93.7	3/4 LOAD: 80.9
1/2 LOAD: 91.3	1/2 LOAD: 72.1

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
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** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

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DATE: 1/14/2020

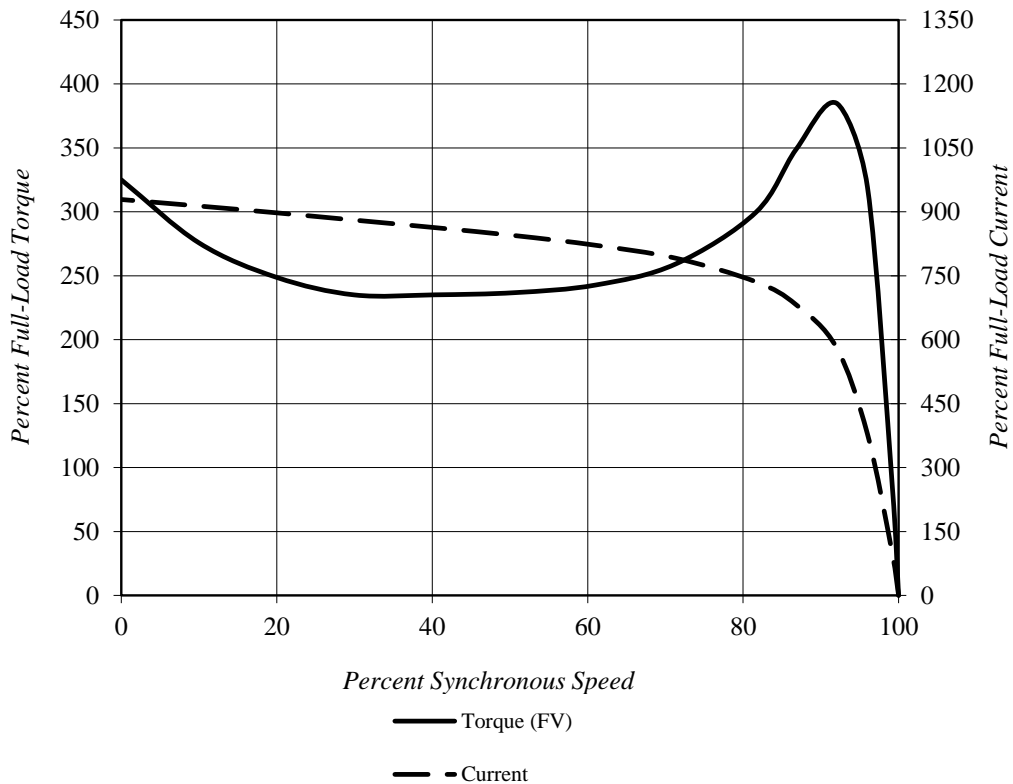
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0302SDMW7FS-P			FLAmps:	52
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2965	Load Inertia:	N/A	File:	GH2030 (30kW)

Locked Rotor Amps:	483 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	385%	Accel. Time:	N/A
Rated Torque:	71 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2030 (30kW)

Prepared by: Zichao Xie

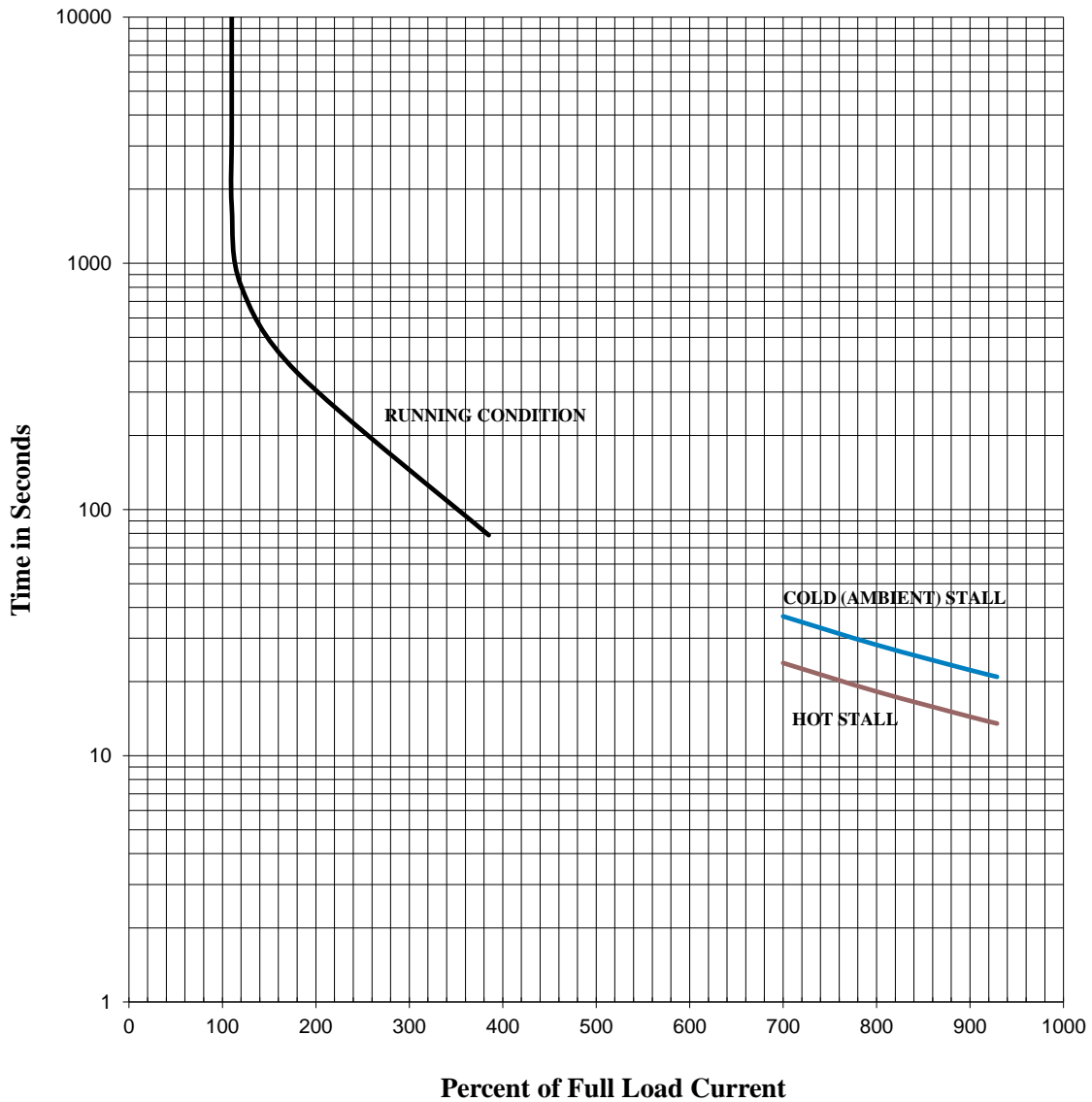
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0302SDMW7FS-P			FLAmps:	52
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2965	Load Inertia:	N/A	File:	GH2030 (30kW)



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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: 55	FLRPM: 2960
FORM: FCK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0302SDMW7FS-P		kW: 30	
NOM. EFF.: 93.3	MIN. EFF.: -	cosØ 0.87	

AMPERAGE

LOCKED ROTOR: 439

TORQUES

FULL LOAD (lb-ft.): 71
LOCKED ROTOR (%): 265
BREAK DOWN (%): 325

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 94.3
3/4 LOAD: 93.6
1/2 LOAD: 91.6

POWER FACTOR

FULL LOAD: 87.9
3/4 LOAD: 85.8
1/2 LOAD: 80.0

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

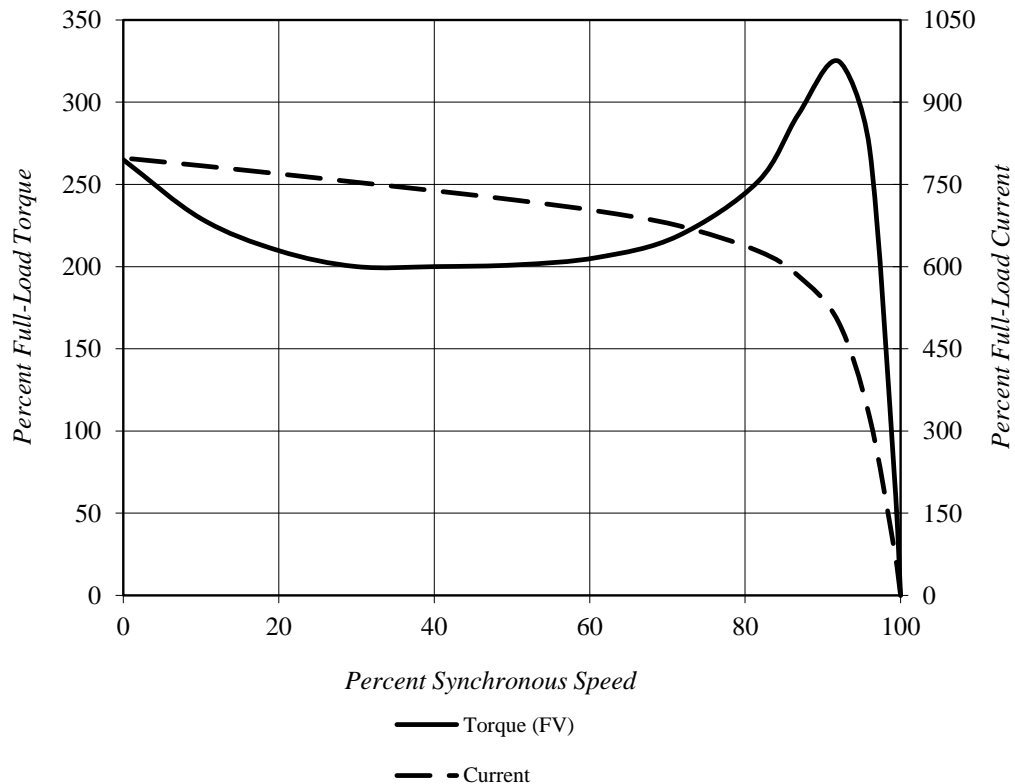
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0302SDMW7FS-P			FLAmps:	55
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2960	Load Inertia:	N/A	File:	GH2030 (30kW)

Locked Rotor Amps:	439 A	Load Type:	N/A
Locked Rotor Torque:	265%	Starting at:	N/A
Breakdown Torque:	325%	Accel. Time:	N/A
Rated Torque:	71 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2030 (30kW)

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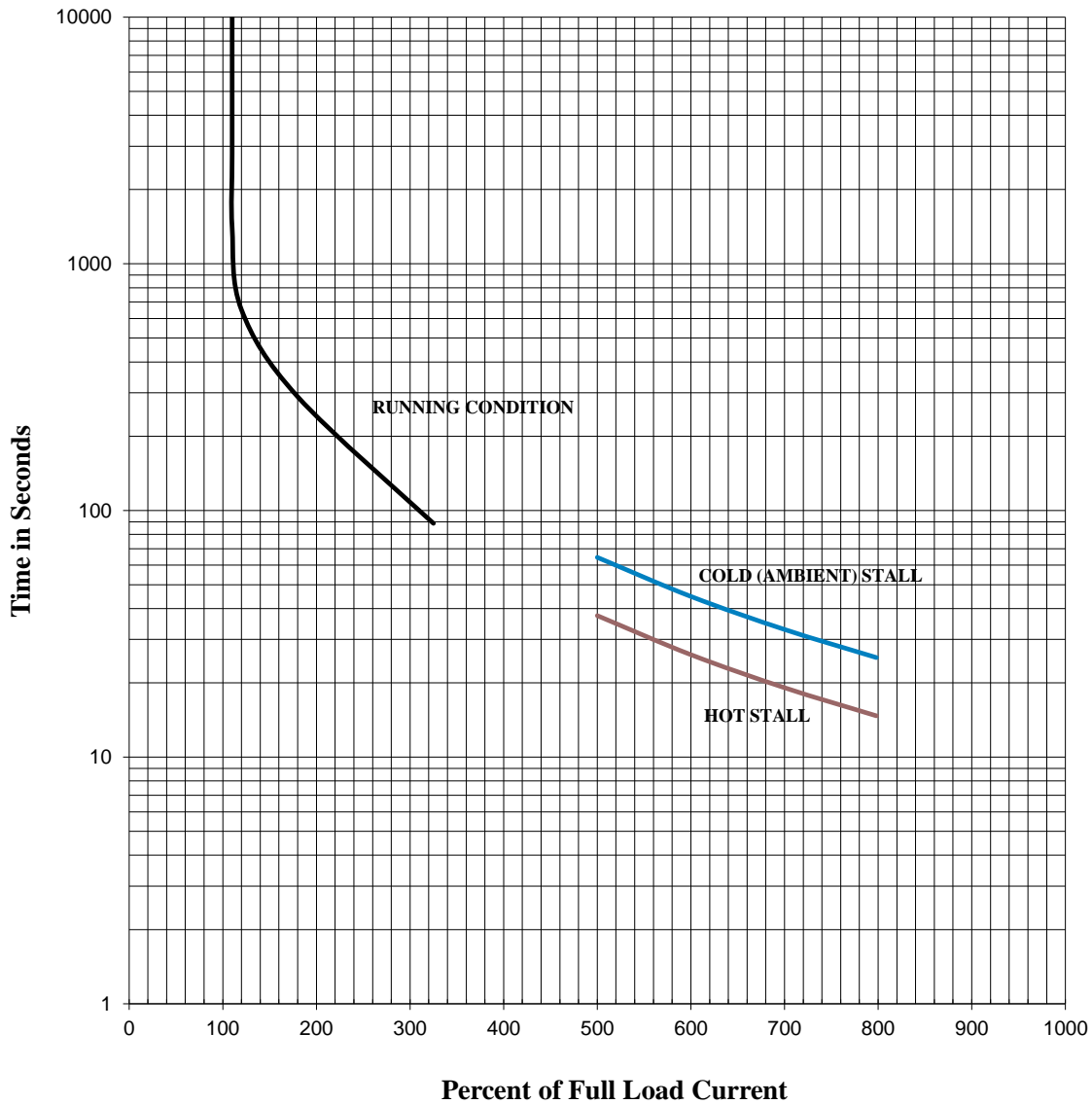
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0302SDMW7FS-P			FLAmps:	55
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	2960	Load Inertia:	N/A	File:	GH2030 (30kW)



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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 40	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 200L	ENCL: TEFC	FLAMPS: 46	FLRPM: 3565
FORM: FCK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: 0302SDMW7FS-P		kW: 30	
NOM. EFF.: 92.4	MIN. EFF.: -	P.F.: 86.0	

AMPERAGE

LOCKED ROTOR: 447

TORQUES

FULL LOAD (lb-ft.): 59
LOCKED ROTOR (%): 295
BREAK DOWN (%): 385

****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: 91.3

POWER FACTOR

FULL LOAD: 86.3
3/4 LOAD: 83.0
1/2 LOAD: 75.3

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

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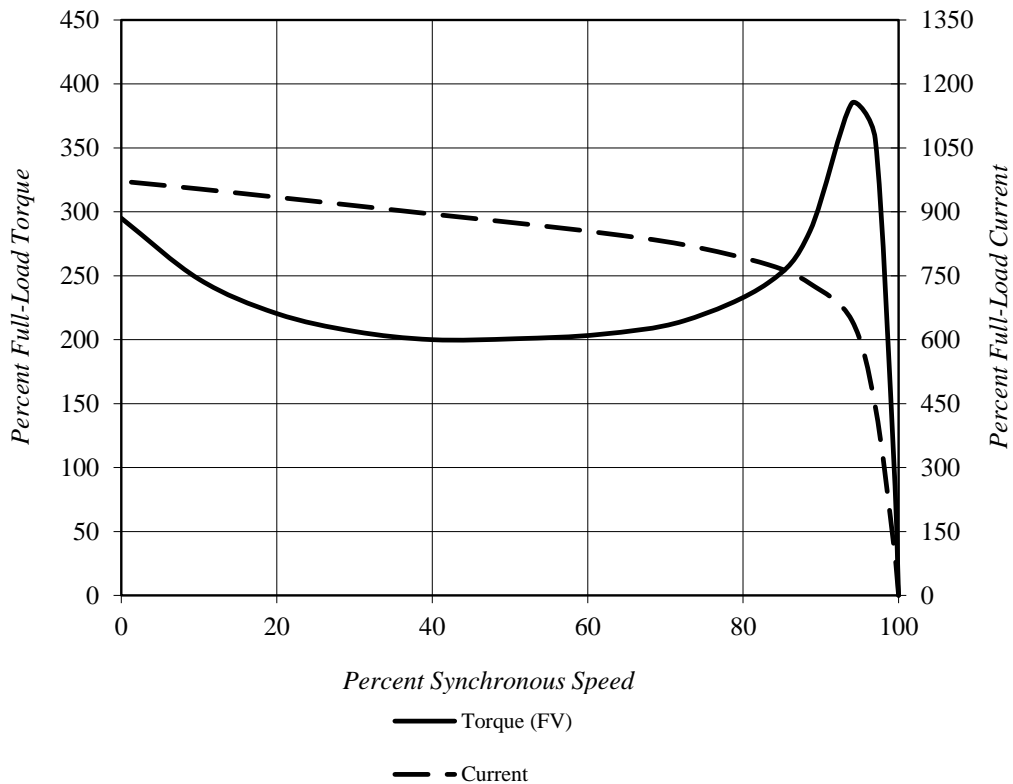
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0302SDMW7FS-P			FLAmps:	46
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	40	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	3565	Load Inertia:	N/A	File:	GH2030 (30kW)

Locked Rotor Amps:	447 A	Load Type:	N/A
Locked Rotor Torque:	295%	Starting at:	N/A
Breakdown Torque:	385%	Accel. Time:	N/A
Rated Torque:	59 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2030 (30kW)

Prepared by: Zichao Xie

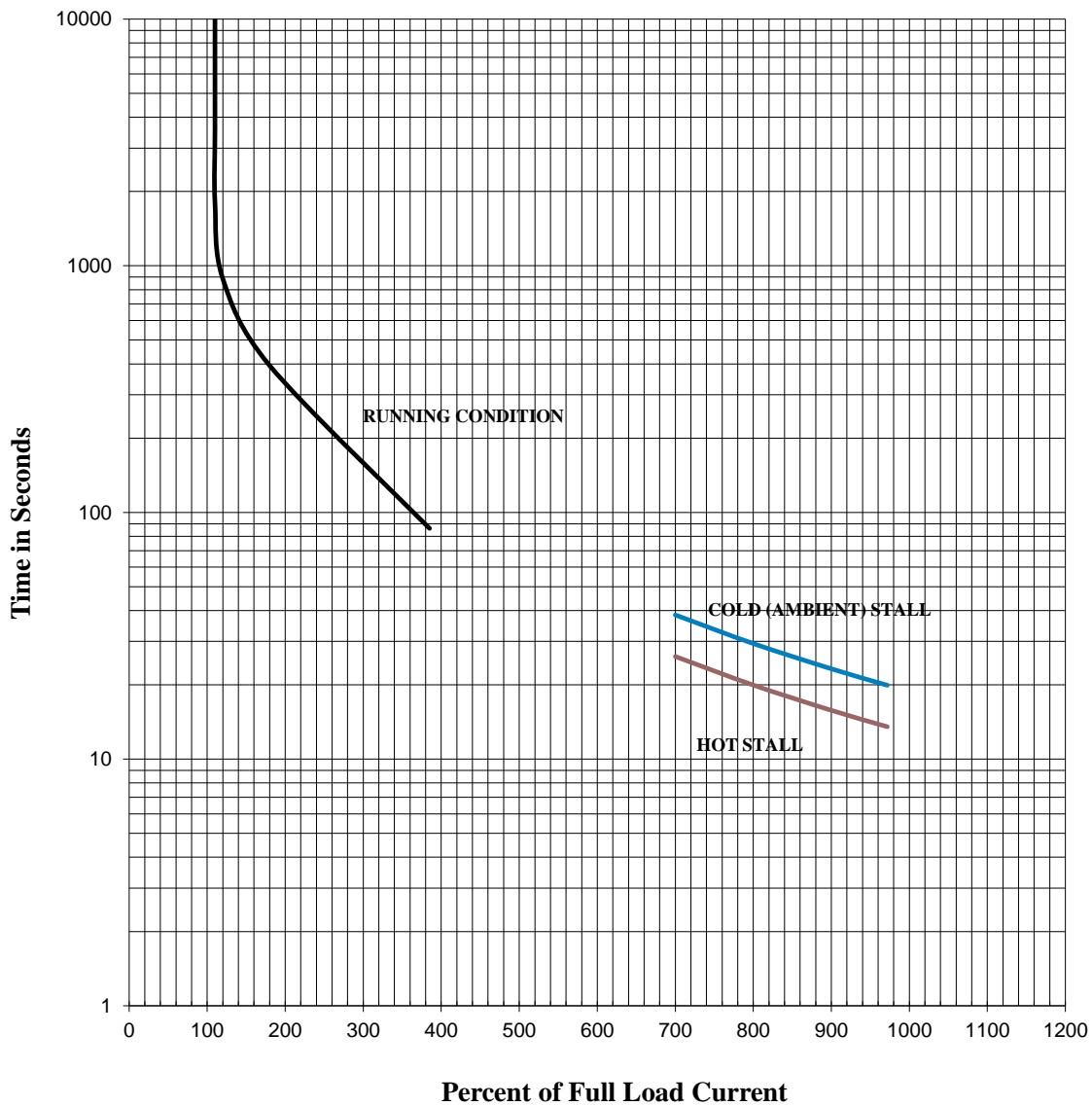
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0302SDMW7FS-P			FLAmps:	46
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	40	Rotor Inertia:	6.6 lb-ft ²	Date:	1/14/2020
FLRPM:	3565	Load Inertia:	N/A	File:	GH2030 (30kW)



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