

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: 1500
FRAME: 200L	ENCL: TEFC	FLAMPS: 57	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0304SDMW7FS-P		kW: 30	
NOM. EFF.: 93.6	MIN. EFF.: -	cosØ 0.81	

AMPERAGE

LOCKED ROTOR: 493

TORQUES

FULL LOAD (lb-ft.): 143
LOCKED ROTOR (%): 215
BREAK DOWN (%): 360

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 93.6
3/4 LOAD: 93.1
1/2 LOAD: 91.4

POWER FACTOR

FULL LOAD: 81.4
3/4 LOAD: 76.9
1/2 LOAD: 67.0

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).

CERTIFIED BY: Zichao Xie

DATE: 10/18/2019

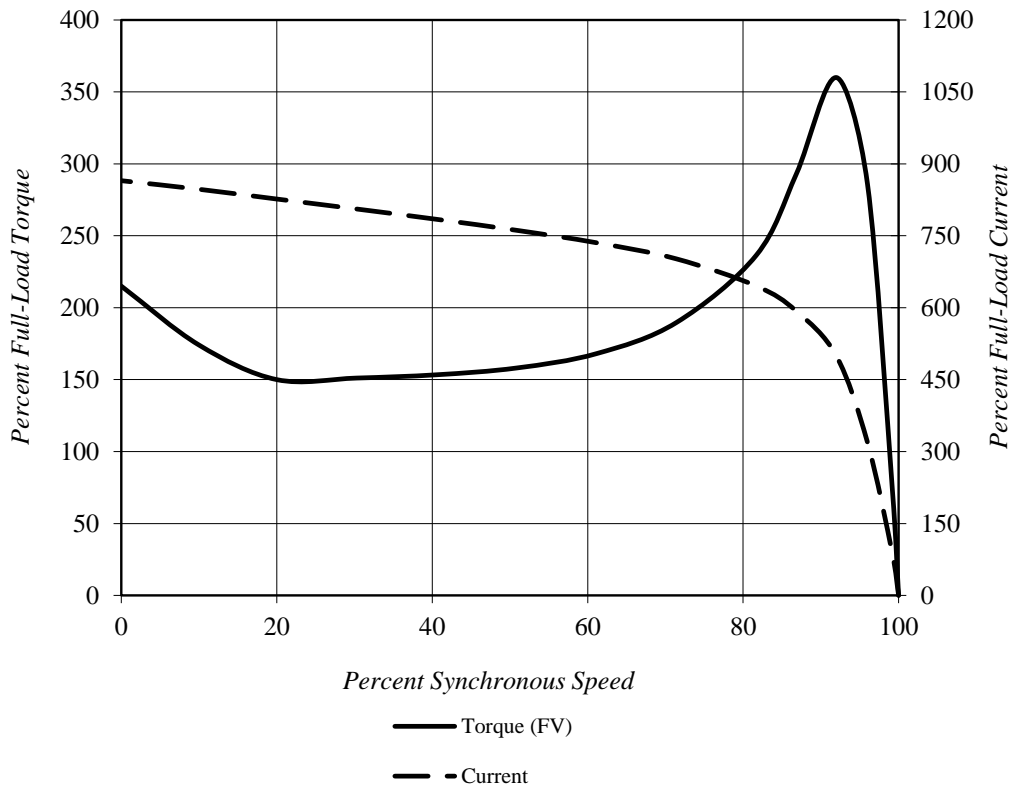
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0304SDMW7FS-P			FLAmps:	57
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)

Locked Rotor Amps:	493 A	Load Type:	N/A
Locked Rotor Torque:	215%	Starting at:	N/A
Breakdown Torque:	360%	Accel. Time:	N/A
Rated Torque:	143 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4030 (30kW)

Prepared by: Zichao Xie

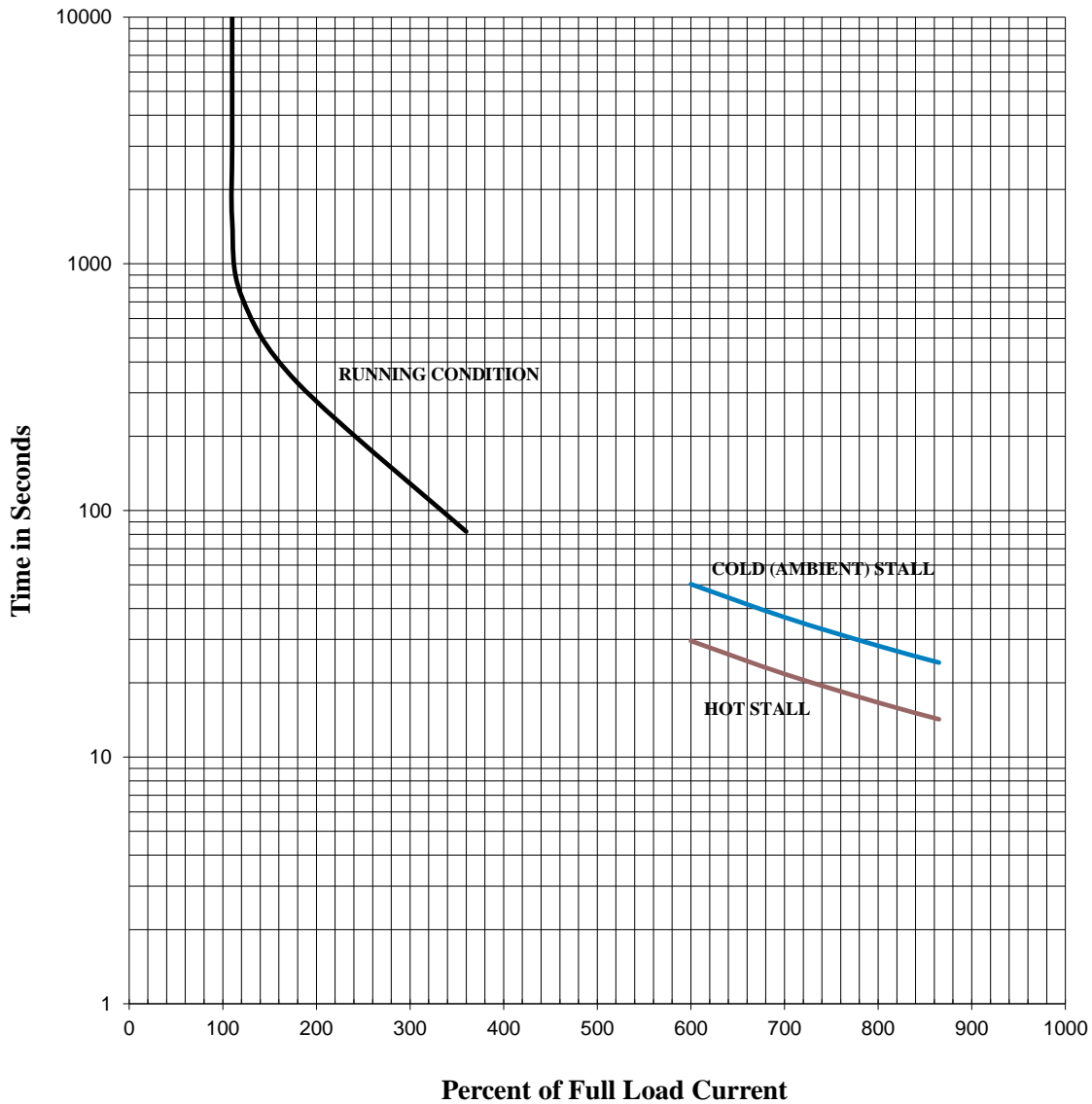
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0304SDMW7FS-P			FLAmps:	57
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)



Comments: PROJECT -

D.E. Curve #: GH4030 (30kW)

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
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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 200L	ENCL: TEFC	FLAMPS: 56	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0304SDMW7FS-P		kW: 30	
NOM. EFF.: 93.6	MIN. EFF.: -	cosØ 0.79	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 515	FULL LOAD (lb-ft.): 142	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 235	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 380	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.7	FULL LOAD: 79.6
3/4 LOAD: 93.1	3/4 LOAD: 74.3
1/2 LOAD: 91.2	1/2 LOAD: 63.4

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: 10/18/2019

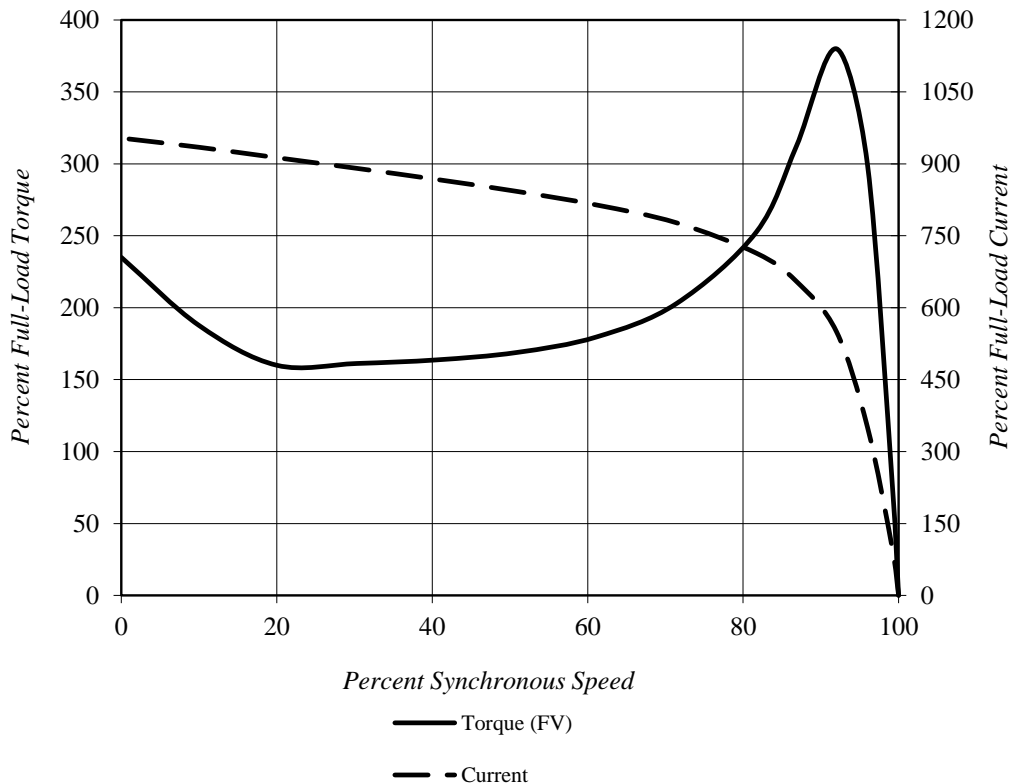
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0304SDMW7FS-P			FLAmps:	56
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)

Locked Rotor Amps:	515 A	Load Type:	N/A
Locked Rotor Torque:	235%	Starting at:	N/A
Breakdown Torque:	380%	Accel. Time:	N/A
Rated Torque:	142 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4030 (30kW)

Prepared by: Zichao Xie

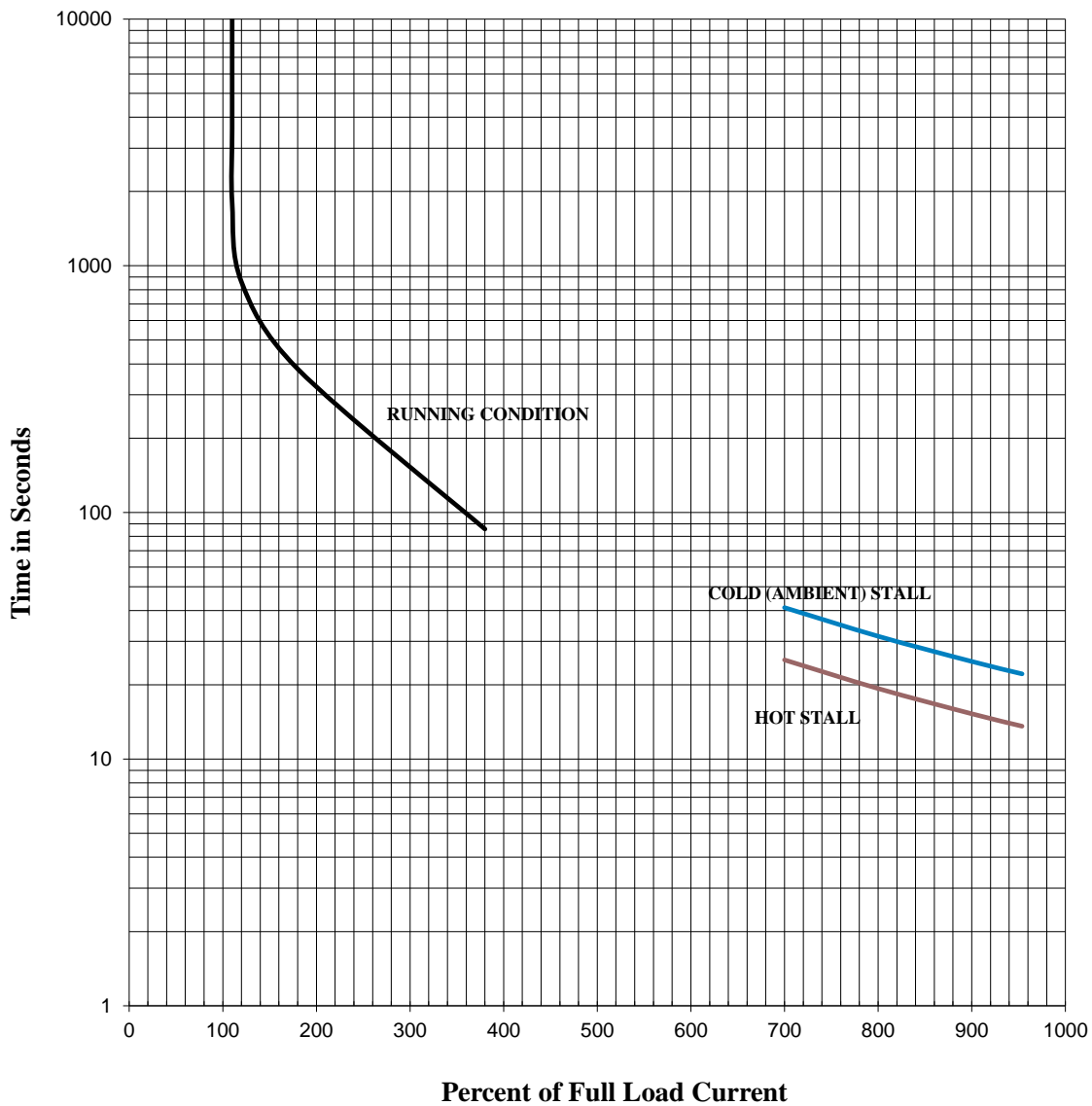
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0304SDMW7FS-P			FLAmps:	56
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)



Comments: PROJECT -

D.E. Curve #: GH4030 (30kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 200L	ENCL: TEFC	FLAMPS: 59	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0304SDMW7FS-P		kW: 30	
NOM. EFF.: 93.6	MIN. EFF.: -	cosØ 0.83	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 464	FULL LOAD (lb-ft.): 143	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 190	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 325	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.4	FULL LOAD: 83.4
3/4 LOAD: 92.9	3/4 LOAD: 80.0
1/2 LOAD: 91.5	1/2 LOAD: 71.8

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

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DATE: 10/18/2019

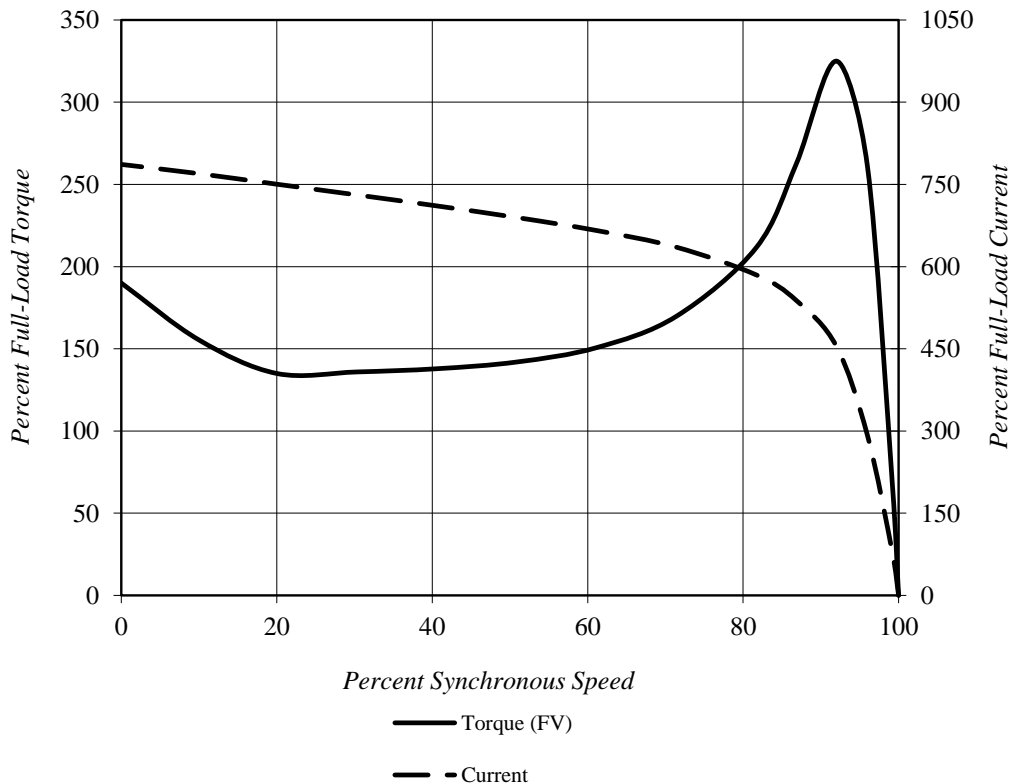
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0304SDMW7FS-P			FLAmps:	59
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)

Locked Rotor Amps:	464 A	Load Type:	N/A
Locked Rotor Torque:	190%	Starting at:	N/A
Breakdown Torque:	325%	Accel. Time:	N/A
Rated Torque:	143 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4030 (30kW)

Prepared by: Zichao Xie

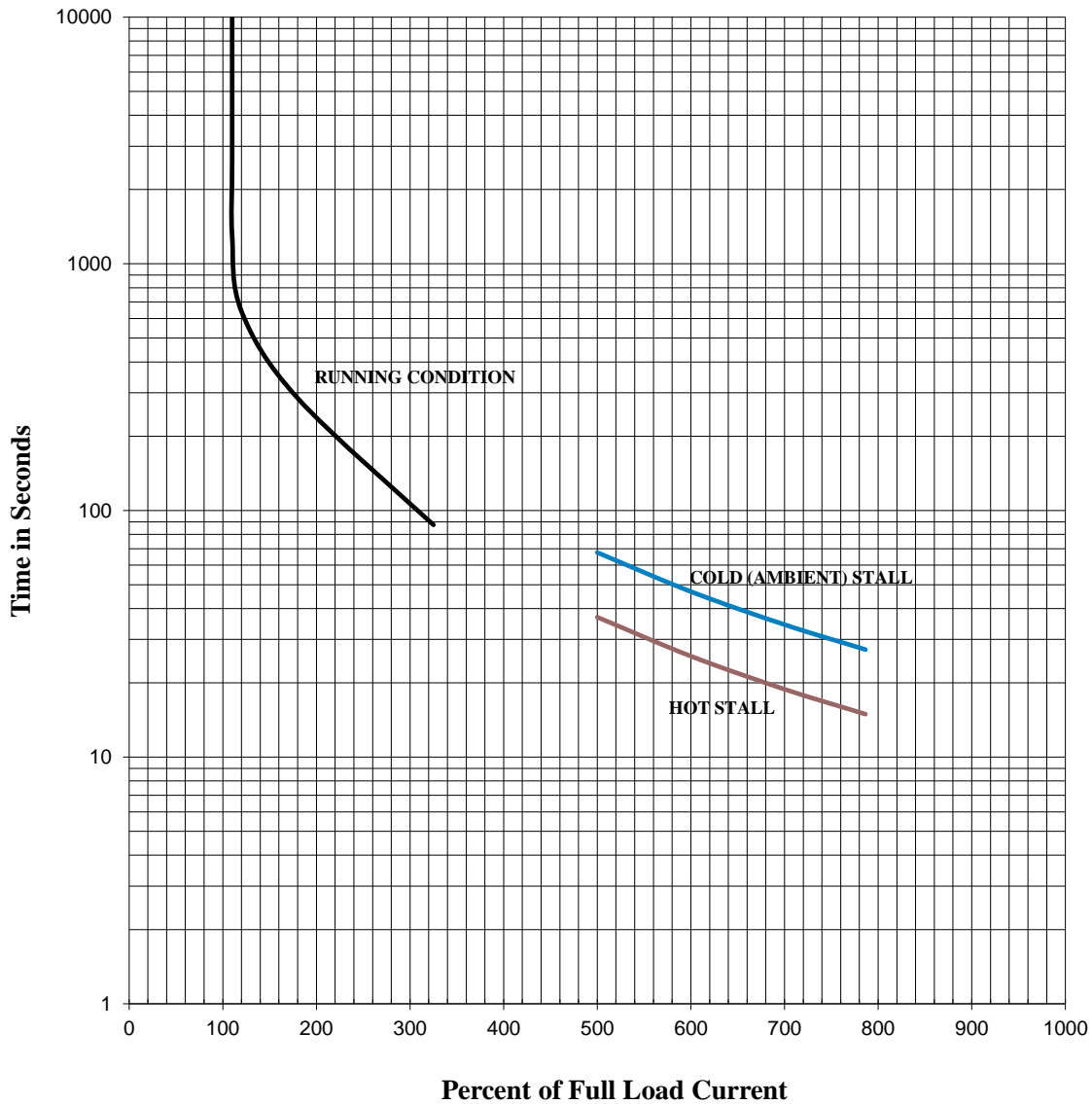
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0304SDMW7FS-P			FLAmps:	59
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	30	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4030 (30kW)



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APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 40	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 200L	ENCL: TEFC	FLAMPS: 50	FLRPM: 1780
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0304SDMW7FS-P		kW: 30	
NOM. EFF.: 94.1	MIN. EFF.: -	P.F.: 80.0	

AMPERAGE

LOCKED ROTOR: 483

TORQUES

FULL LOAD (lb-ft.): 118
LOCKED ROTOR (%): 240
BREAK DOWN (%): 460

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 93.9
3/4 LOAD: 93.1
1/2 LOAD: 91.0

POWER FACTOR

FULL LOAD: 80.0
3/4 LOAD: 75.2
1/2 LOAD: 65.0

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

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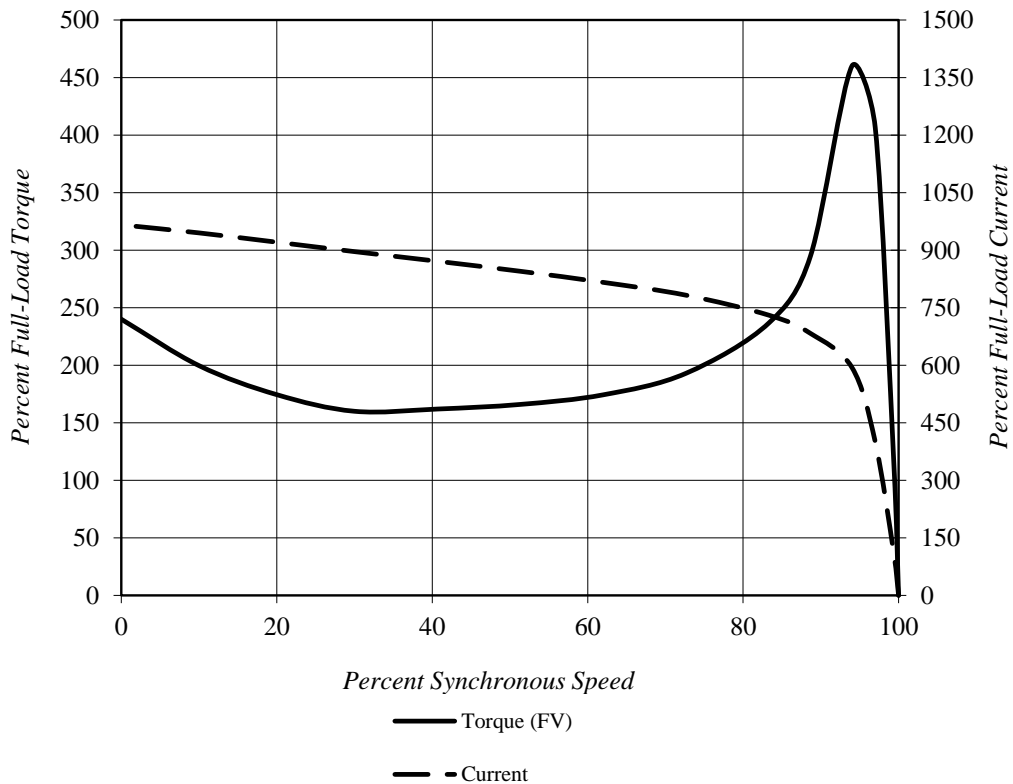
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0304SDMW7FS-P			FLAmps:	50
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	40	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1780	Load Inertia:	N/A	File:	GH4030 (30kW)

Locked Rotor Amps:	483 A	Load Type:	N/A
Locked Rotor Torque:	240%	Starting at:	N/A
Breakdown Torque:	460%	Accel. Time:	N/A
Rated Torque:	118 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4030 (30kW)

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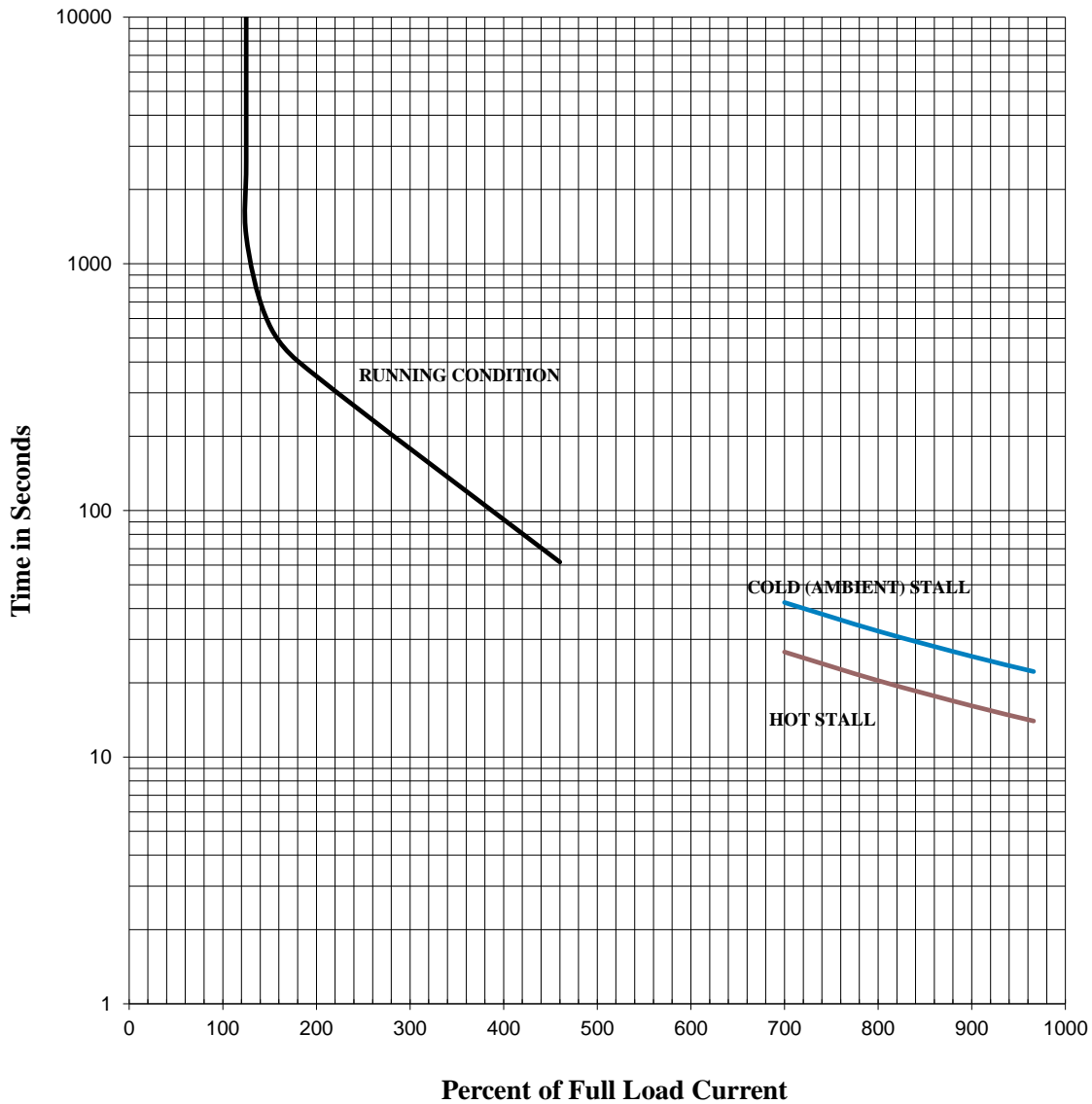
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0304SDMW7FS-P			FLAmps:	50
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	40	Rotor Inertia:	9.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1780	Load Inertia:	N/A	File:	GH4030 (30kW)



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D.E. Curve #: GH4030 (30kW)

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