

UNIT: mm

ROTATION:
CCW
VIEW FROM:
ODE

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.

B14-FLANGE MOTOR OL DRAWING IEC GLOBAL	TYPE: 2-4-6P - 400V	TOLERANCES X. ± 2.0 XX ± 0.5 XXX ± 0.1					
	FRAME: 160M						
3HFN000319		MAXIMUM MOTOR WEIGHT - lbs. - kgs.					DRAWN BY: HIEN NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/ind
							
			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: 160M	ENCL: TEFC	FLAMPS: 22	FLRPM: 1470
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0114SDMW7KS-PL		kW: 11	
NOM. EFF.: 91.4	MIN. EFF.: -	cosØ 0.77	

AMPERAGE

LOCKED ROTOR: 191

TORQUES

FULL LOAD (lb-ft.): 52
LOCKED ROTOR (%): 350
BREAK DOWN (%): 395

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.0
3/4 LOAD: 91.4
1/2 LOAD: 89.3

POWER FACTOR

FULL LOAD: 77.2
3/4 LOAD: 71.4
1/2 LOAD: 60.0

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

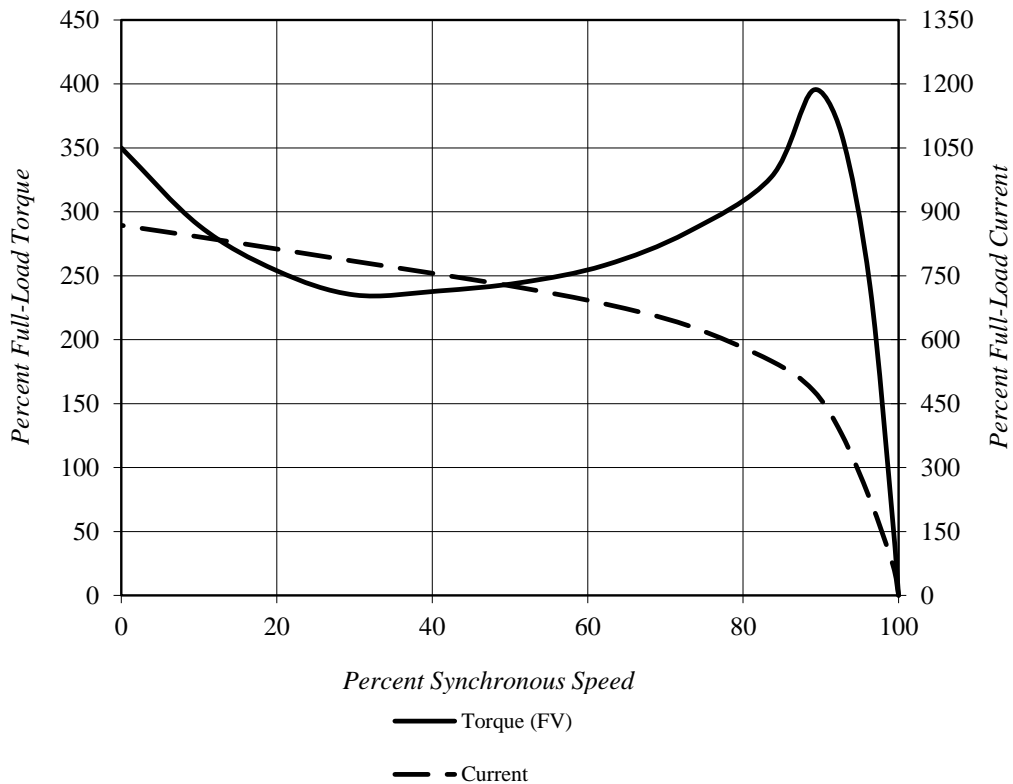
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0114SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4011 (11kW)

Locked Rotor Amps:	191 A	Load Type:	N/A
Locked Rotor Torque:	350%	Starting at:	N/A
Breakdown Torque:	395%	Accel. Time:	N/A
Rated Torque:	52 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

Prepared by: Zichao Xie

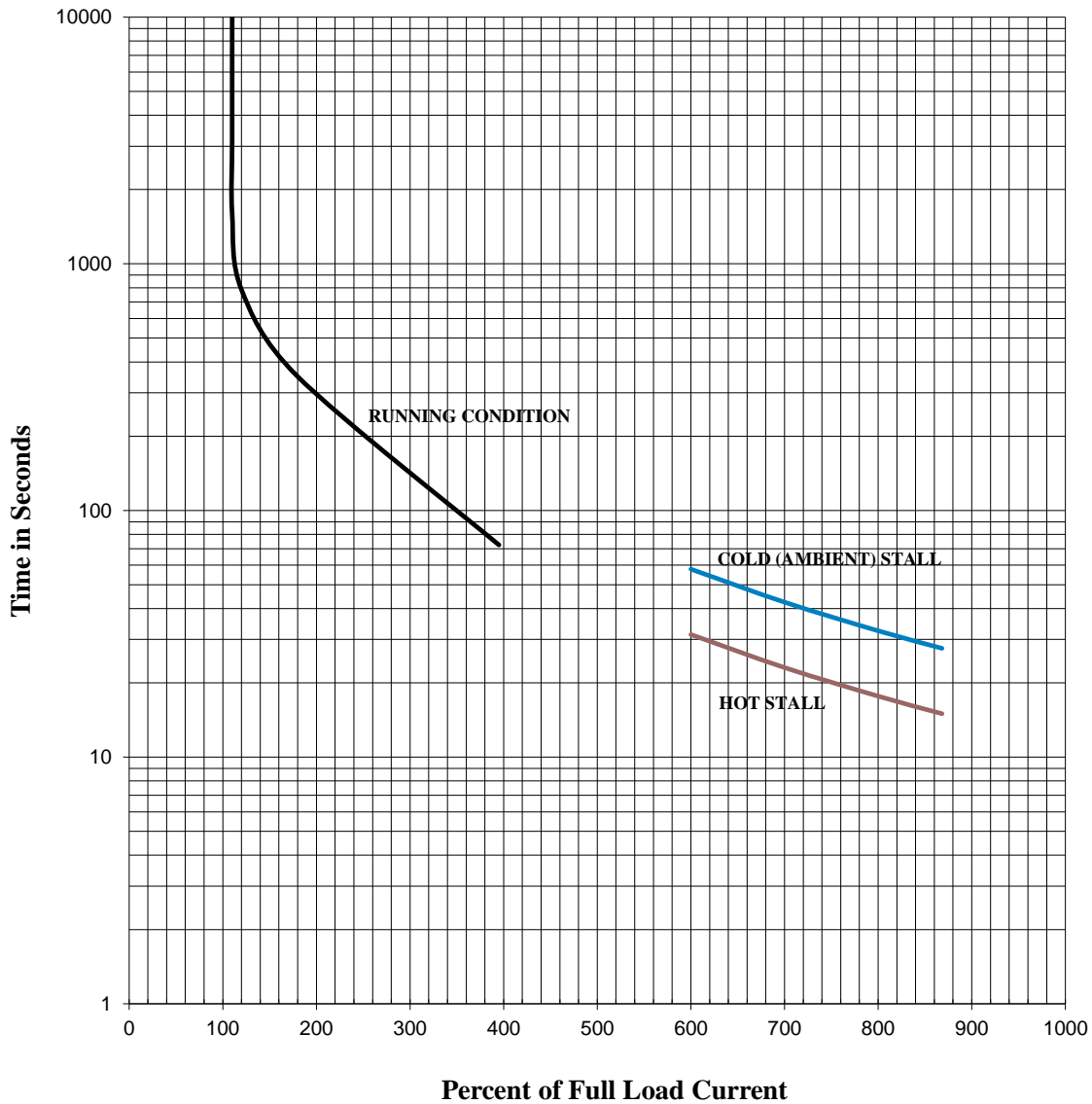
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0114SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

Prepared by: Zichao Xie

Checked by:

TOSHIBA INTERNATIONAL CORPORATION Industrial Division / Houston Motor Plant SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS	INDEX	MPCF-1033
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	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: 1500
FRAME: 160M	ENCL: TEFC	FLAMPS: 22	FLRPM: 1470
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0114SDMW7KS-PL		kW: 11	
NOM. EFF.: 91.4	MIN. EFF.: -	cosØ 0.75	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 199	FULL LOAD (lb-ft.): 52	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 400	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 420	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.1	FULL LOAD: 75.2
3/4 LOAD: 91.3	3/4 LOAD: 68.3
1/2 LOAD: 89.0	1/2 LOAD: 56.0

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

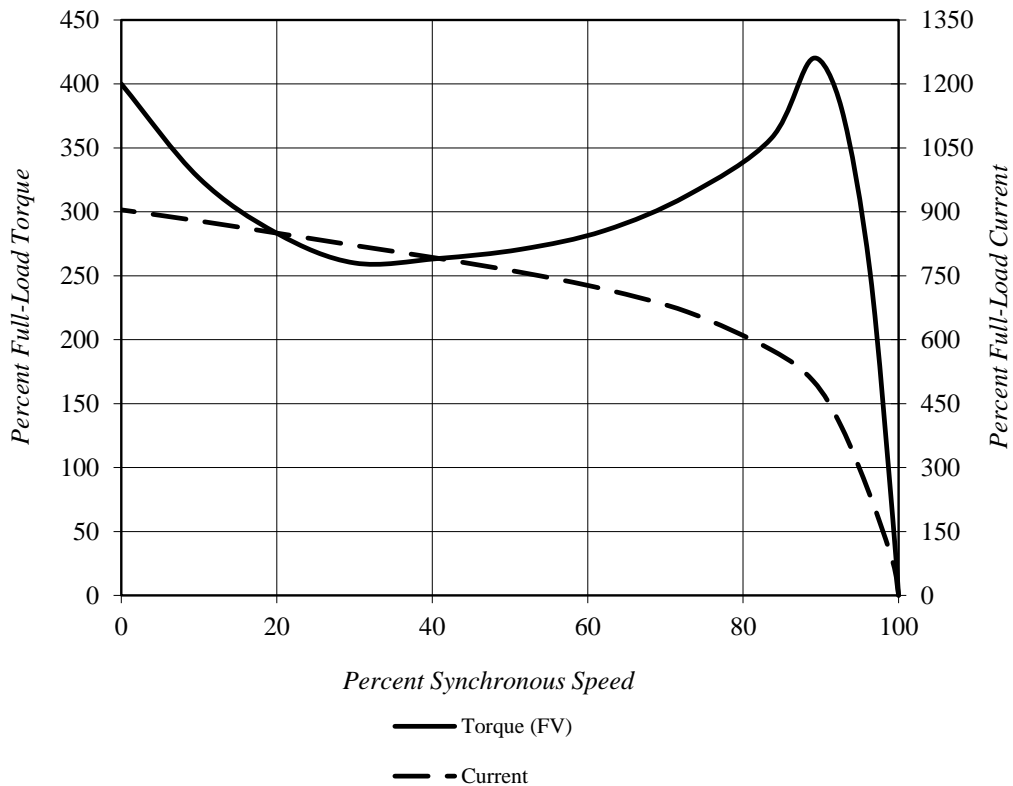
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0114SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4011 (11kW)

Locked Rotor Amps:	199 A	Load Type:	N/A
Locked Rotor Torque:	400%	Starting at:	N/A
Breakdown Torque:	420%	Accel. Time:	N/A
Rated Torque:	52 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

Prepared by: Zichao Xie

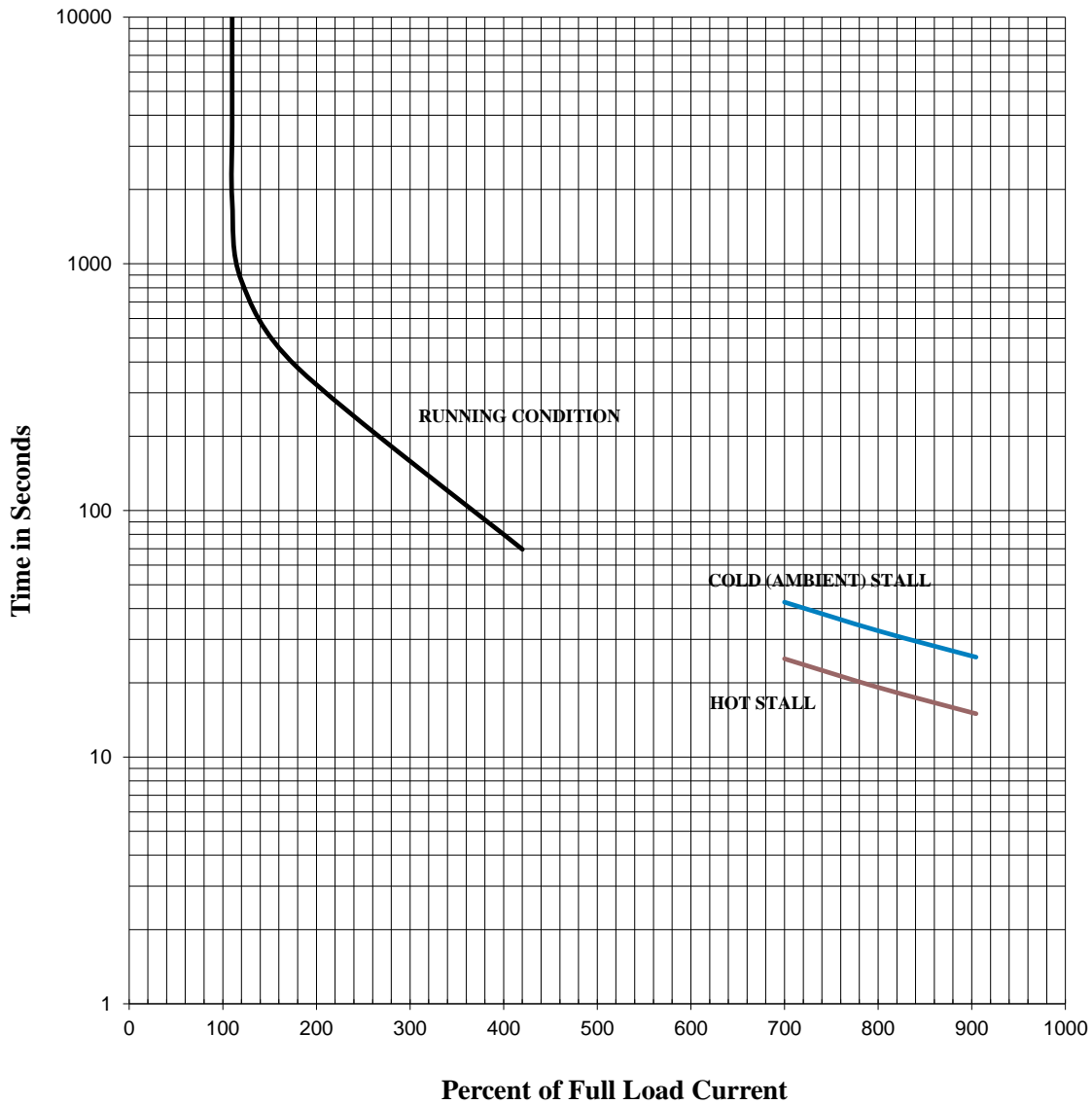
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0114SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4011 (11kW)



Comments: PROJECT -

D.E. Curve #: GH4011 (11kW)

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Checked by:

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Industrial Division / Houston Motor Plant

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 160M	ENCL: TEFC	FLAMPS: 23	FLRPM: 1465
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0114SDMW7KS-PL		kW: 11	
NOM. EFF.: 91.4	MIN. EFF.: -	cosØ 0.81	

AMPERAGE

LOCKED ROTOR: 180

TORQUES

FULL LOAD (lb-ft.): 53
LOCKED ROTOR (%): 325
BREAK DOWN (%): 360

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.5
3/4 LOAD: 91.1
1/2 LOAD: 89.4

POWER FACTOR

FULL LOAD: 81.0
3/4 LOAD: 76.5
1/2 LOAD: 66.7

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

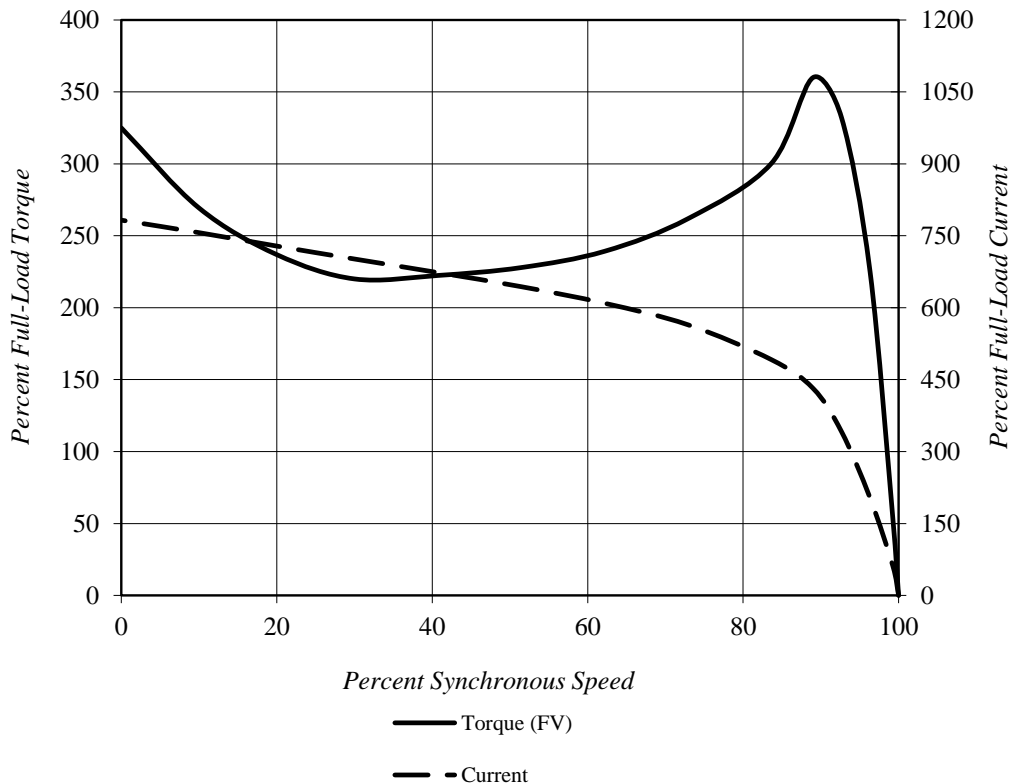
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0114SDMW7KS-PL			FLAmps:	23
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4011 (11kW)

Locked Rotor Amps:	180 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	360%	Accel. Time:	N/A
Rated Torque:	53 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

Prepared by: Zichao Xie

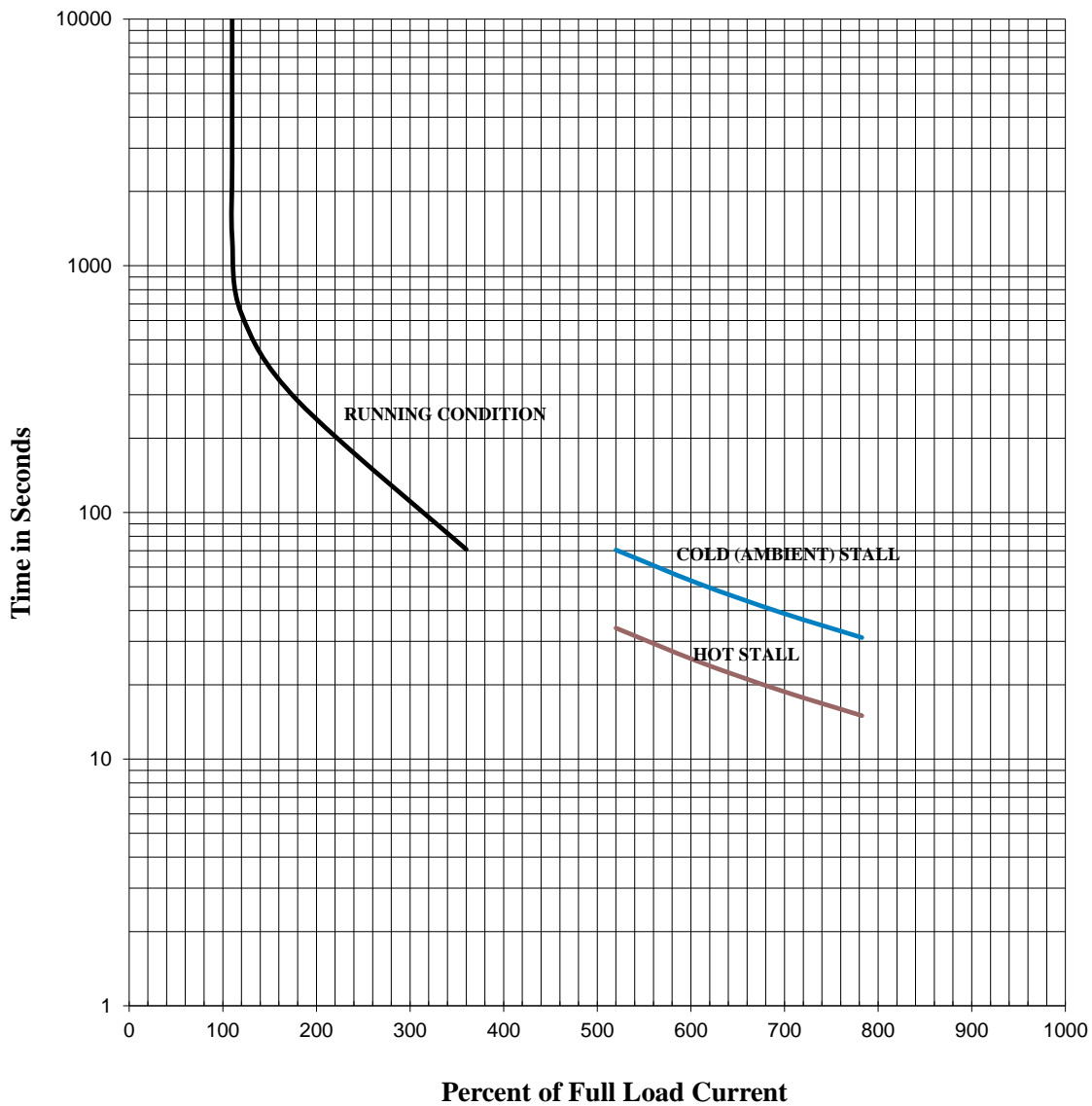
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0114SDMW7KS-PL			FLAmps:	23
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

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Checked by:

TOSHIBA INTERNATIONAL CORPORATION Industrial Division / Houston Motor Plant SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS	INDEX	MPCF-1033
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	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -
 TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 15	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 160M	ENCL: TEFC	FLAMPS: 19.4	FLRPM: 1775
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0114SDMW7KS-PL		kW: 11	
NOM. EFF.: 92.4	MIN. EFF.: -	P.F.: 76.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 188	FULL LOAD (lb-ft.): 43	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 430	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 430	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.6	FULL LOAD: 76.8
3/4 LOAD: 91.6	3/4 LOAD: 70.8
1/2 LOAD: 89.0	1/2 LOAD: 59.4

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.
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DATE: 10/18/2019

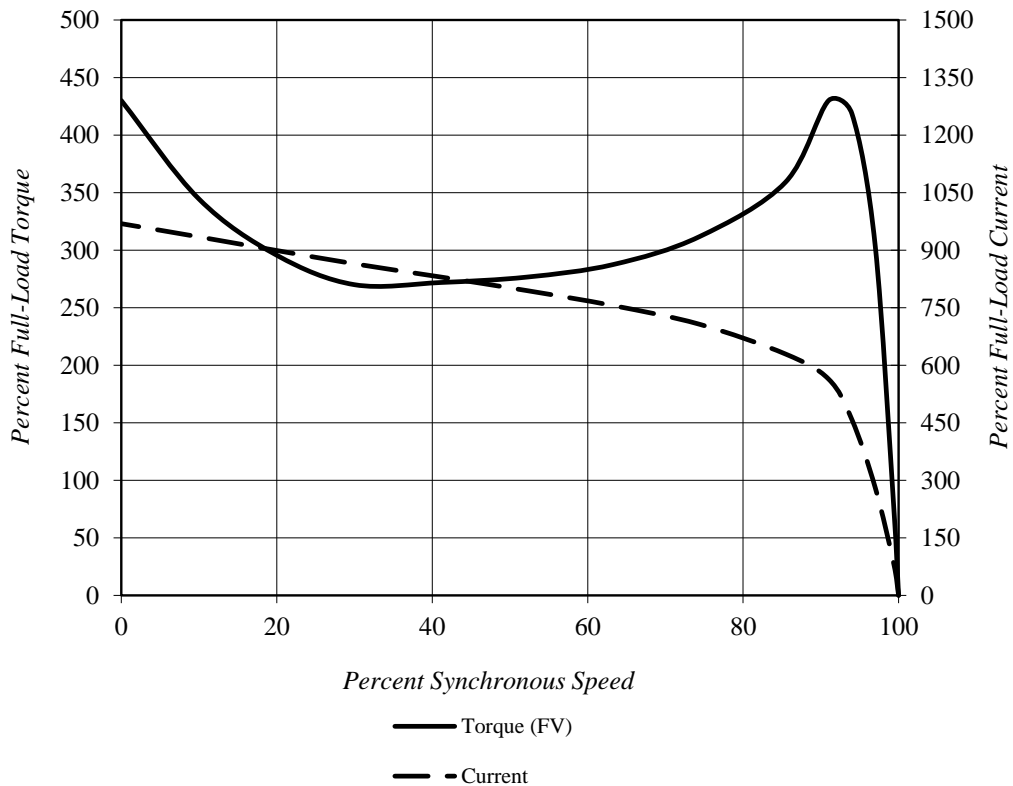
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0114SDMW7KS-PL			FLAmps:	19.4
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	GH4011 (11kW)

Locked Rotor Amps:	188 A	Load Type:	N/A
Locked Rotor Torque:	430%	Starting at:	N/A
Breakdown Torque:	430%	Accel. Time:	N/A
Rated Torque:	43 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4011 (11kW)

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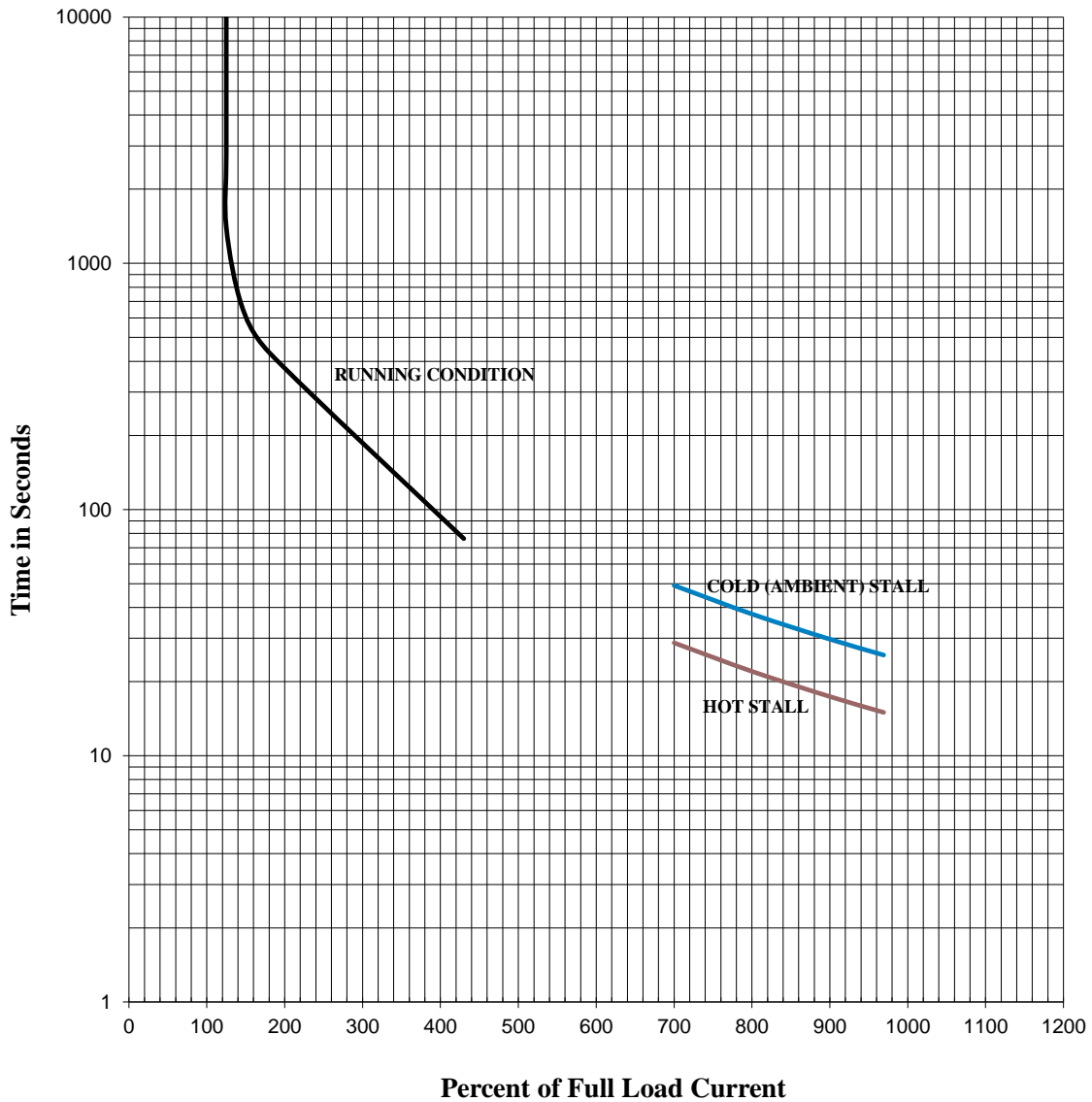
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0114SDMW7KS-PL			FLAmps:	19.4
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	2.4 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	GH4011 (11kW)



Comments: PROJECT - _____

D.E.Curve #: GH4011 (11kW)

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Checked by: