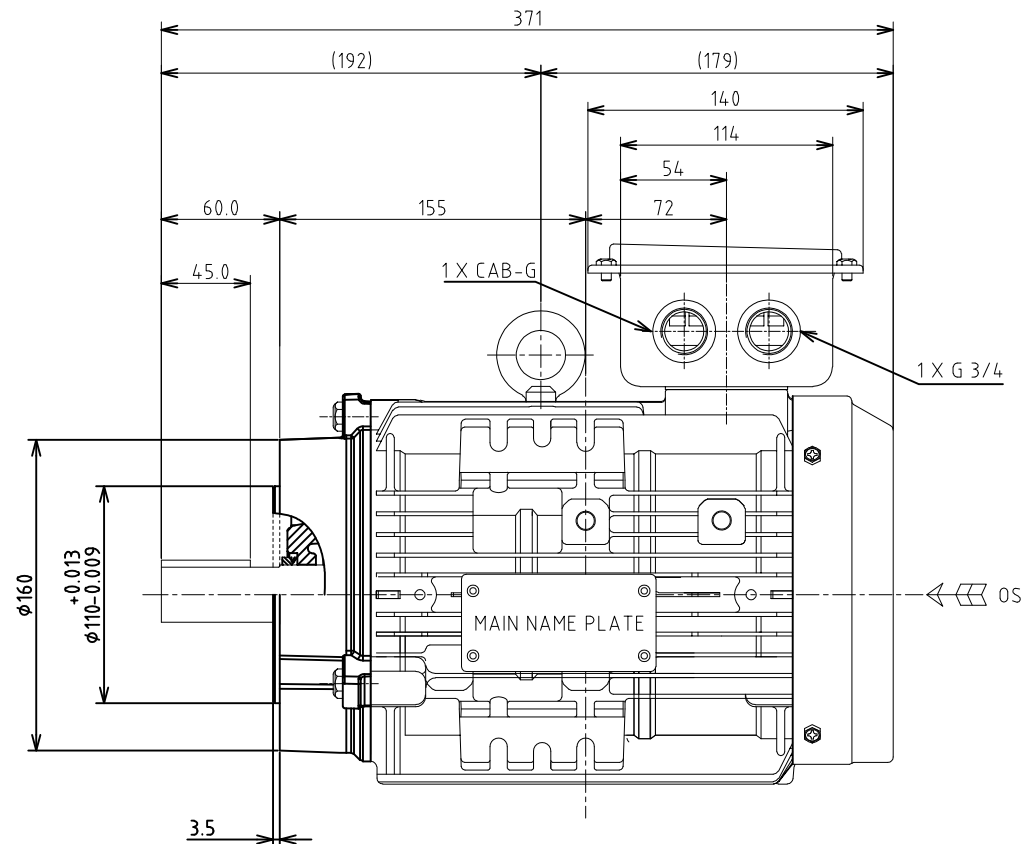
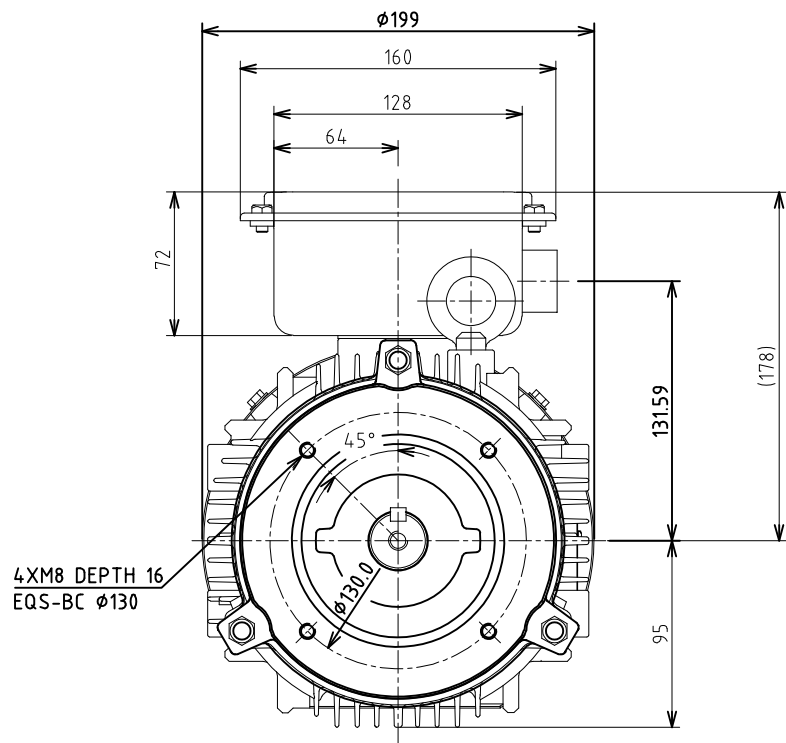


ROTATION: CCW
VIEW FROM: OS

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.

B14-FLANGE MOTOR
OL DRAWING IEC GLOBAL

TYPE: 2-4P - 400V

FRAME: 100L

3HFN000315

TOLERANCES

X.	± 2.0
X.X	± 0.5
X.XX	± 0.1

MAXIMUM MOTOR WEIGHT

66 lbs.
30 kgs.

EQP Global SD
XT SERIES

DRAWN BY: HIEN. NGUYEN

CHECK BY: B.X.QUYNH

APPROVED BY: JAY BUGBEE

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TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

01	Remove tolerance "T" dimension	T.Danh	Sep-10-18	B.Quynh
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: 230/400	3 PH / 50 Hz	S. RPM: 1500
FRAME: 100L	ENCL: TEFC	FLAMPS: 8.7/5.0	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y224SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 86.7	MIN. EFF.: -	cosØ 0.70	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 87/50	FULL LOAD (lb-ft.): 10.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 440	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 460	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.4	FULL LOAD: 70.8
3/4 LOAD: 88.4	3/4 LOAD: 63.1
1/2 LOAD: 85.2	1/2 LOAD: 50.4

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

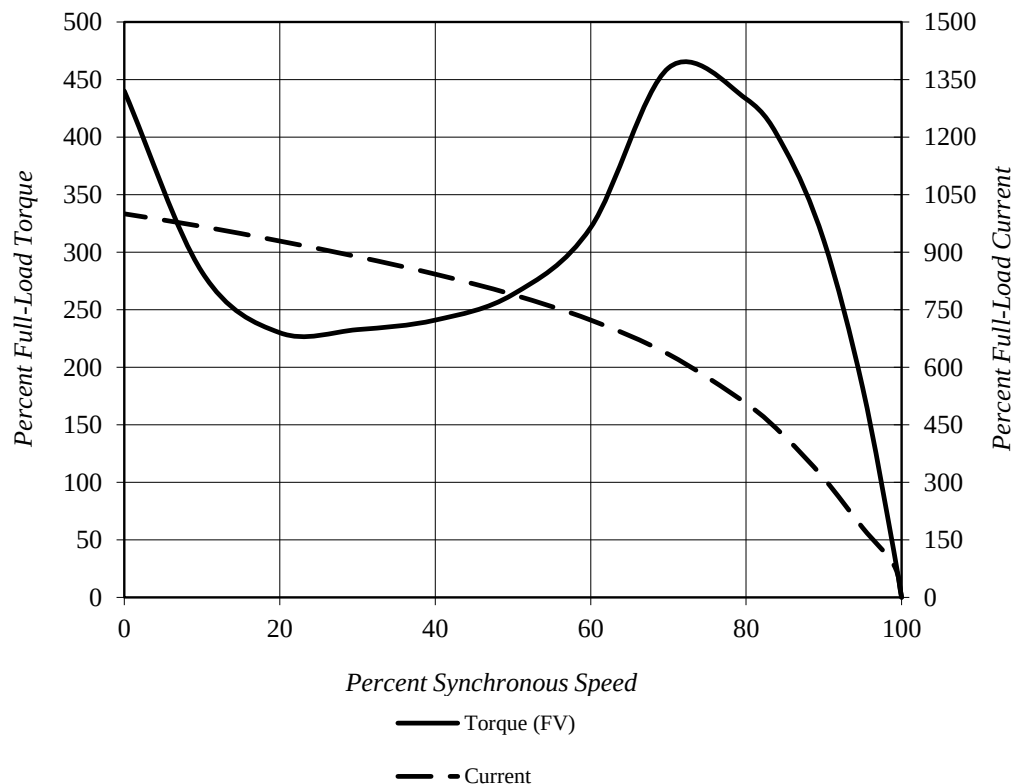
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y224SDMV7KS-PL			FLAmps:	8.7/5.0
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)

Locked Rotor Amps:	87/50 A	Load Type:	N/A
Locked Rotor Torque:	440%	Starting at:	N/A
Breakdown Torque:	460%	Accel. Time:	N/A
Rated Torque:	10.4 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

Prepared by: Zichao Xie

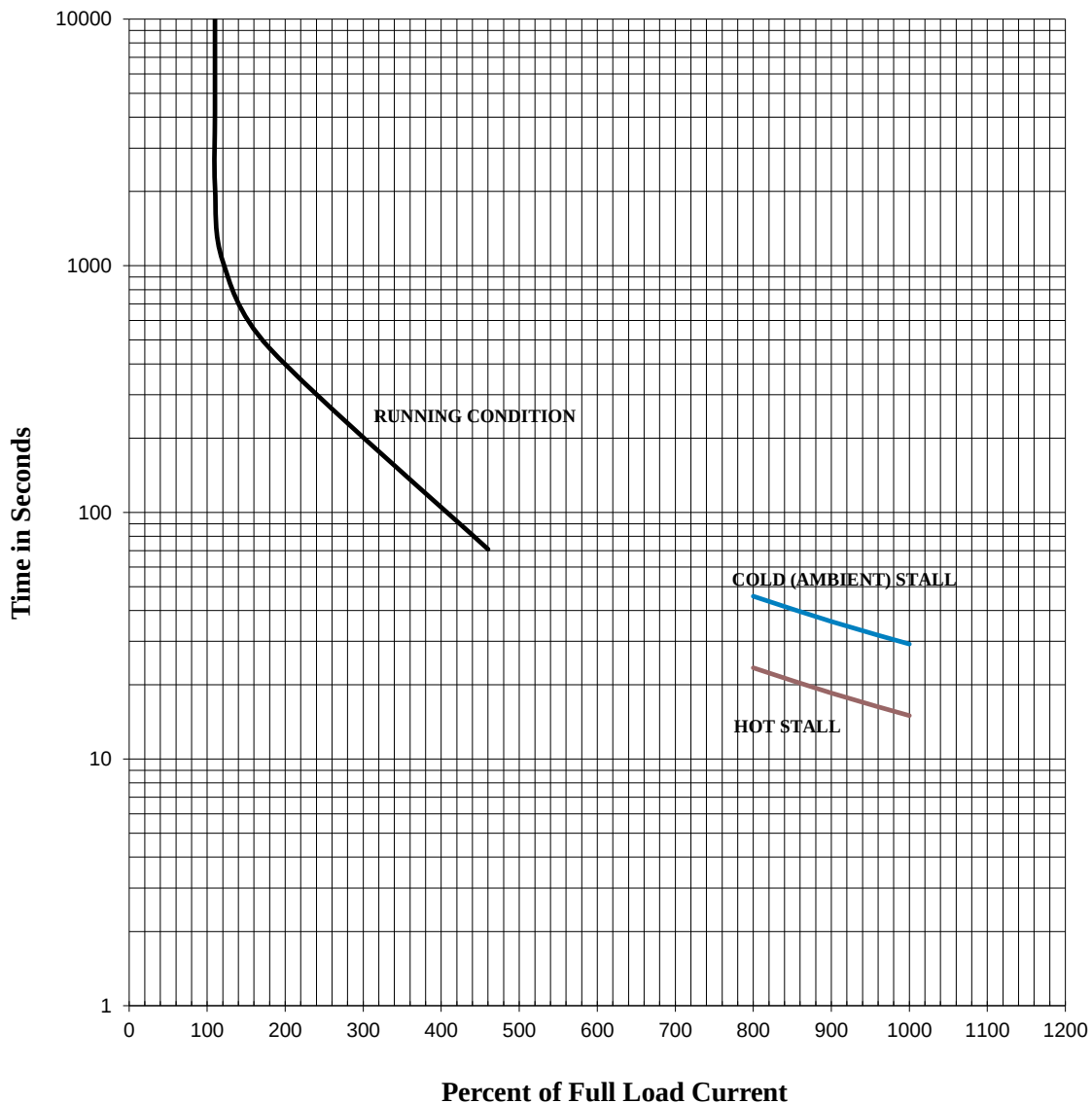
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y224SDMV7KS-PL			FLAmps:	8.7/5.0
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

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
	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: 240/415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 100L	ENCL: TEFC	FLAMPS: 9.0/5.2	FLRPM: 1465
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y224SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 86.7	MIN. EFF.: -	cosØ 0.66	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 90/52	FULL LOAD (lb-ft.): 10.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 485	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 490	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.2	FULL LOAD: 66.6
3/4 LOAD: 87.9	3/4 LOAD: 58.1
1/2 LOAD: 84.1	1/2 LOAD: 45.2

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).
--

CERTIFIED BY: Zichao Xie

DATE: 10/18/2019

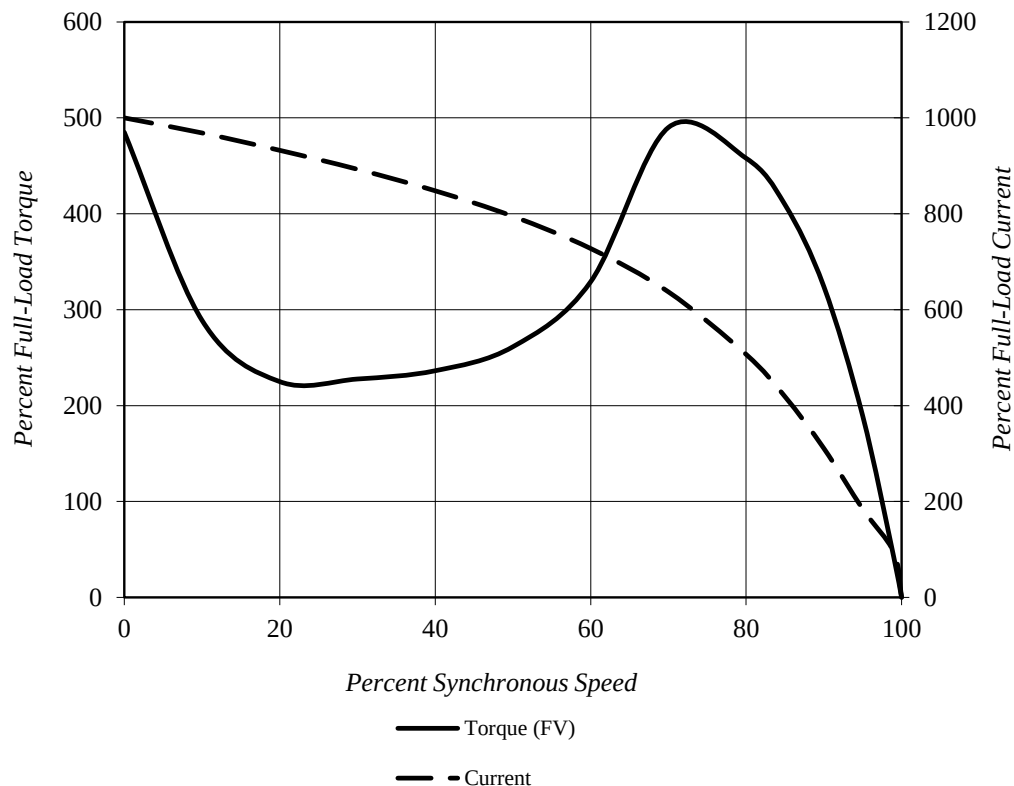
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y224SDMV7KS-PL			FLAmps:	9.0/5.2
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)

Locked Rotor Amps:	90/52 A	Load Type:	N/A
Locked Rotor Torque:	485%	Starting at:	N/A
Breakdown Torque:	490%	Accel. Time:	N/A
Rated Torque:	10.4 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

Prepared by: Zichao Xie

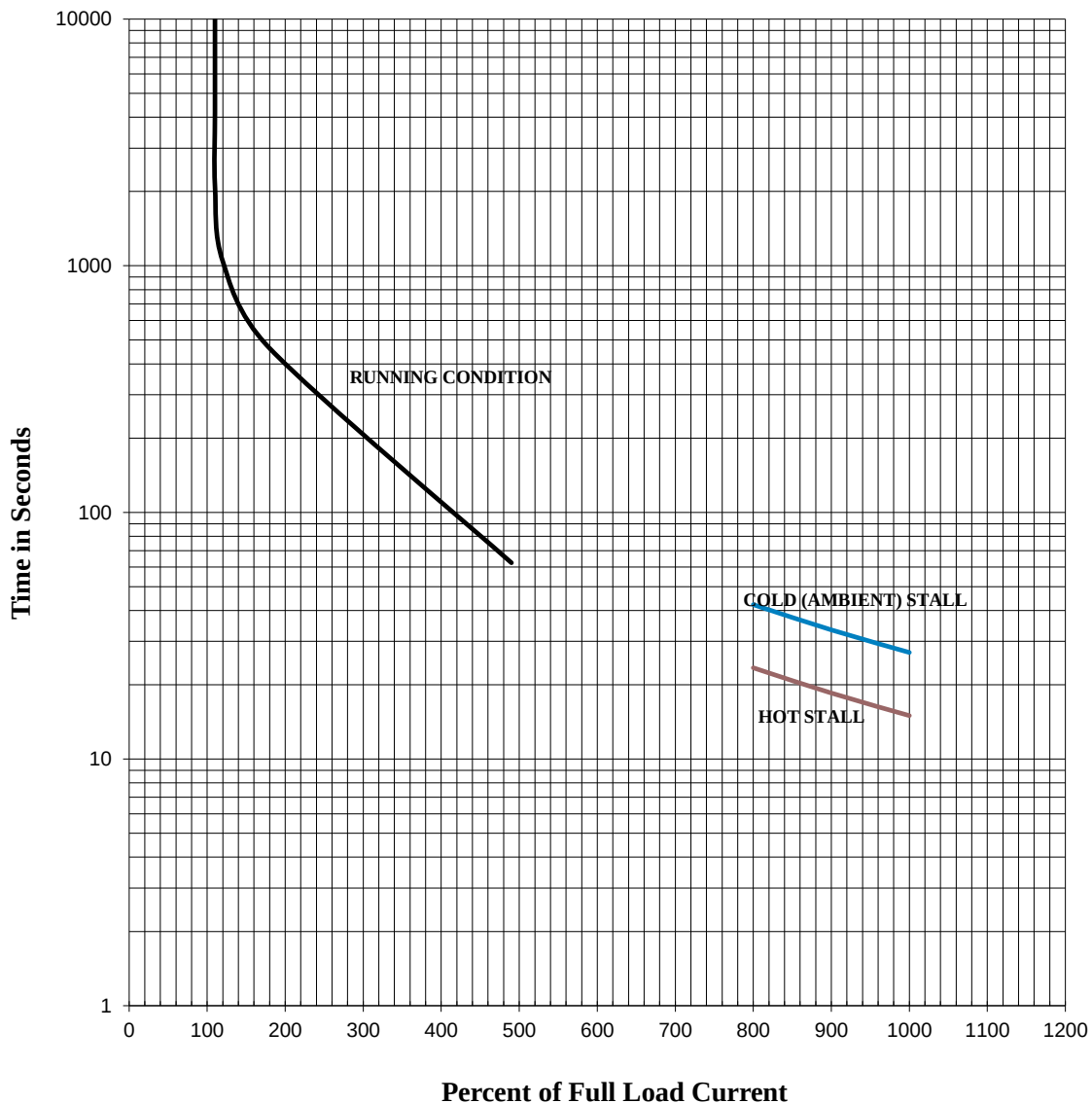
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y224SDMV7KS-PL			FLAmps:	9.0/5.2
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

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
	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: 220/380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 100L	ENCL: TEFC	FLAMPS: 8.6/5.0	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y224SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 86.7	MIN. EFF.: -	cosØ 0.75	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 81/47	FULL LOAD (lb-ft.): 10.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 390	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 420	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.4	FULL LOAD: 75.2
3/4 LOAD: 88.9	3/4 LOAD: 68.7
1/2 LOAD: 86.4	1/2 LOAD: 56.8

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).
--

CERTIFIED BY: Zichao Xie

DATE: 10/18/2019

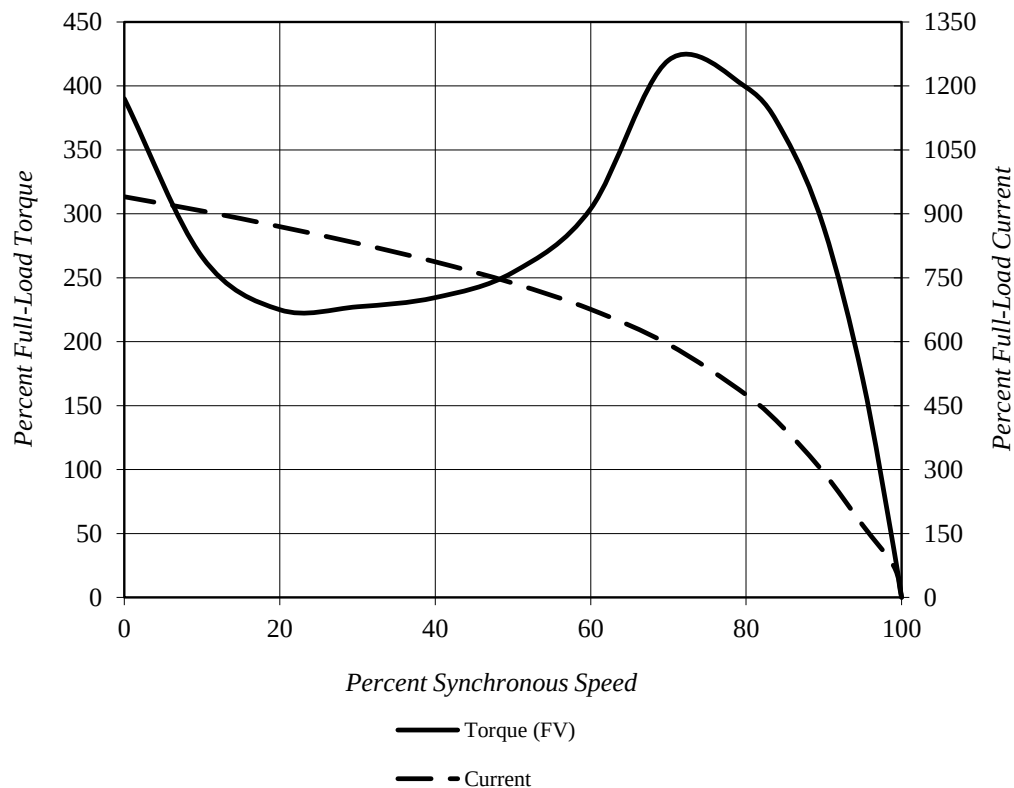
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y224SDMV7KS-PL			FLAmps:	8.6/5.0
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)

Locked Rotor Amps:	81/47 A	Load Type:	N/A
Locked Rotor Torque:	390%	Starting at:	N/A
Breakdown Torque:	420%	Accel. Time:	N/A
Rated Torque:	10.4 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

Prepared by: Zichao Xie

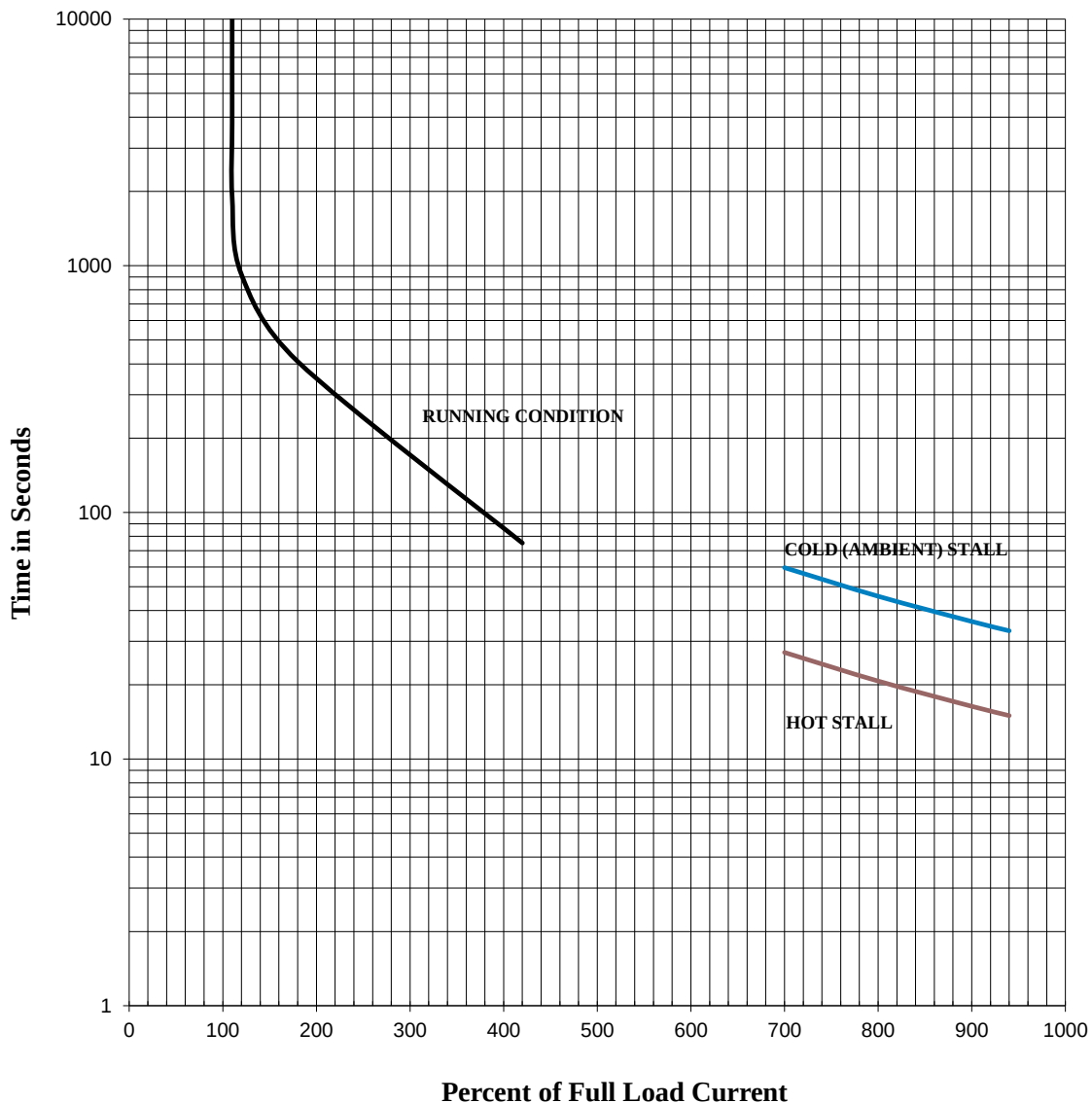
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y224SDMV7KS-PL			FLAmps:	8.6/5.0
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

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
	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.: 3	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 100L	ENCL: TEFC	FLAMPS: 4.5	FLRPM: 1770
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: R	DUTY: Cont.
MODEL No.: Y224SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 68.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 53	FULL LOAD (lb-ft.): 8.6	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 595	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 485	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.5	FULL LOAD: 68.4
3/4 LOAD: 89.1	3/4 LOAD: 60.7
1/2 LOAD: 85.3	1/2 LOAD: 48.3

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: 10/18/2019

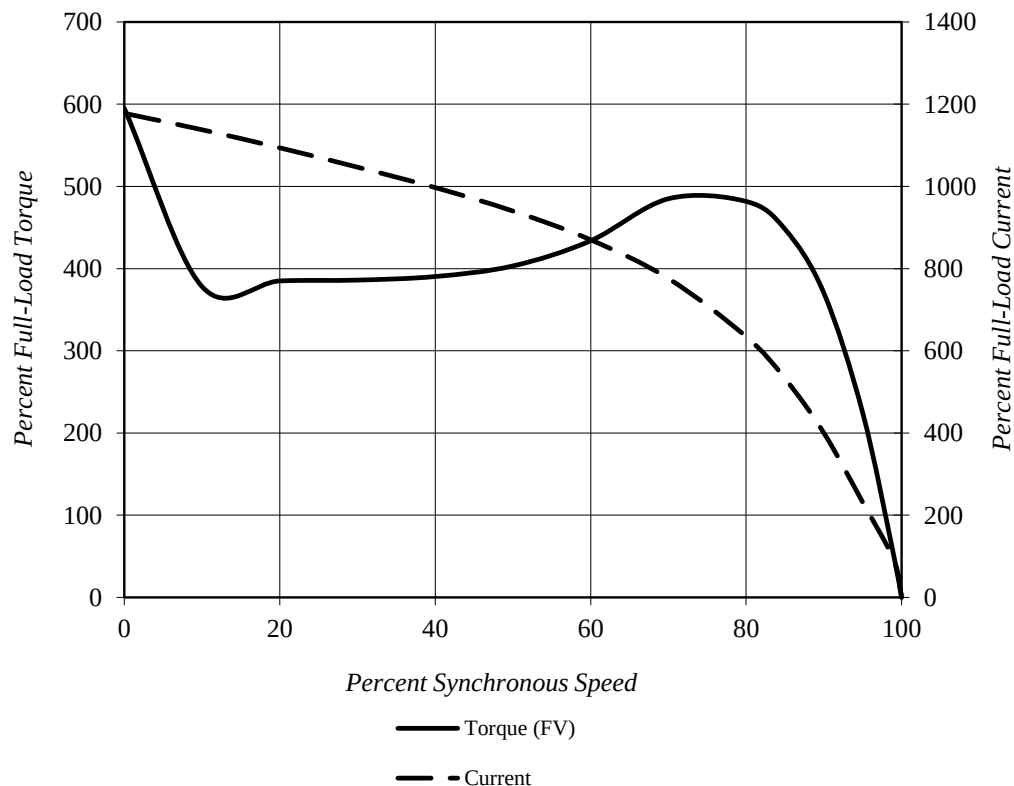
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y224SDMV7KS-PL			FLAmps:	4.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1770	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)

Locked Rotor Amps:	53 A	Load Type:	N/A
Locked Rotor Torque:	595%	Starting at:	N/A
Breakdown Torque:	485%	Accel. Time:	N/A
Rated Torque:	8.6 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

Prepared by: Zichao Xie

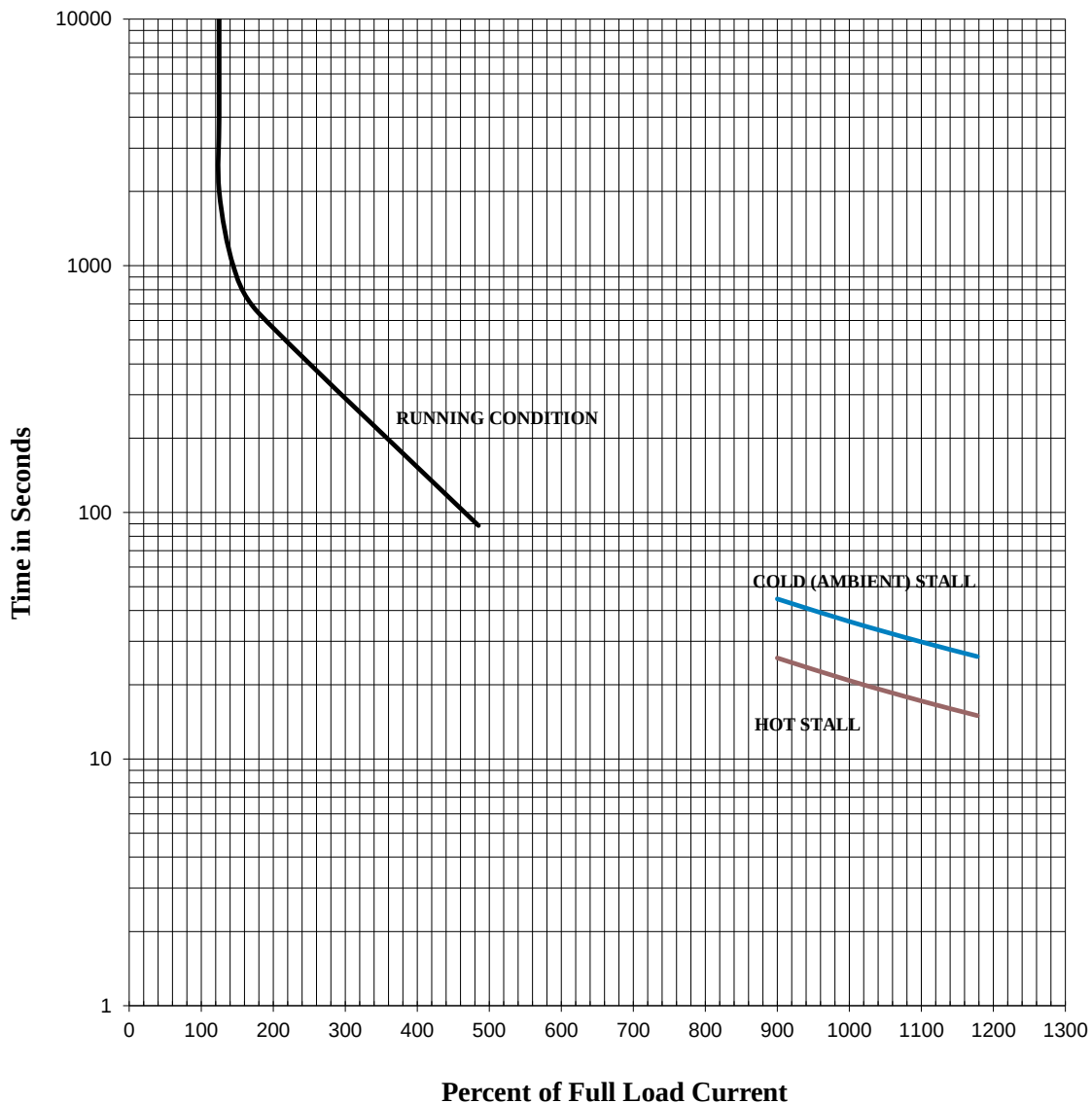
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y224SDMV7KS-PL			FLAmps:	4.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	100L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.27 lb-ft ²	Date:	10/18/2019
FLRPM:	1770	Load Inertia:	N/A	File:	GH4Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH4Y22 (2.2kW)

Prepared by: Zichao Xie

Checked by: