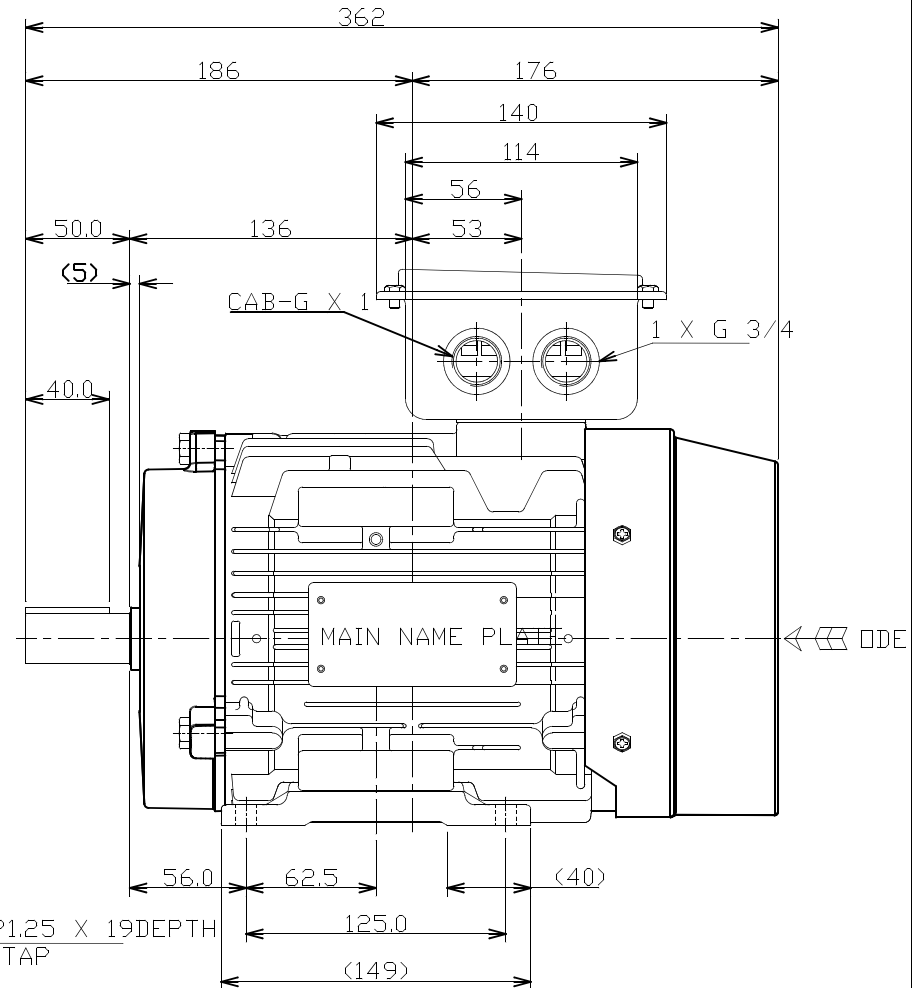
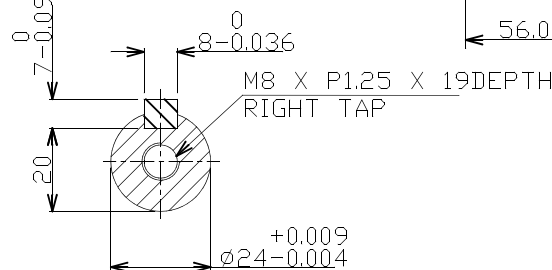
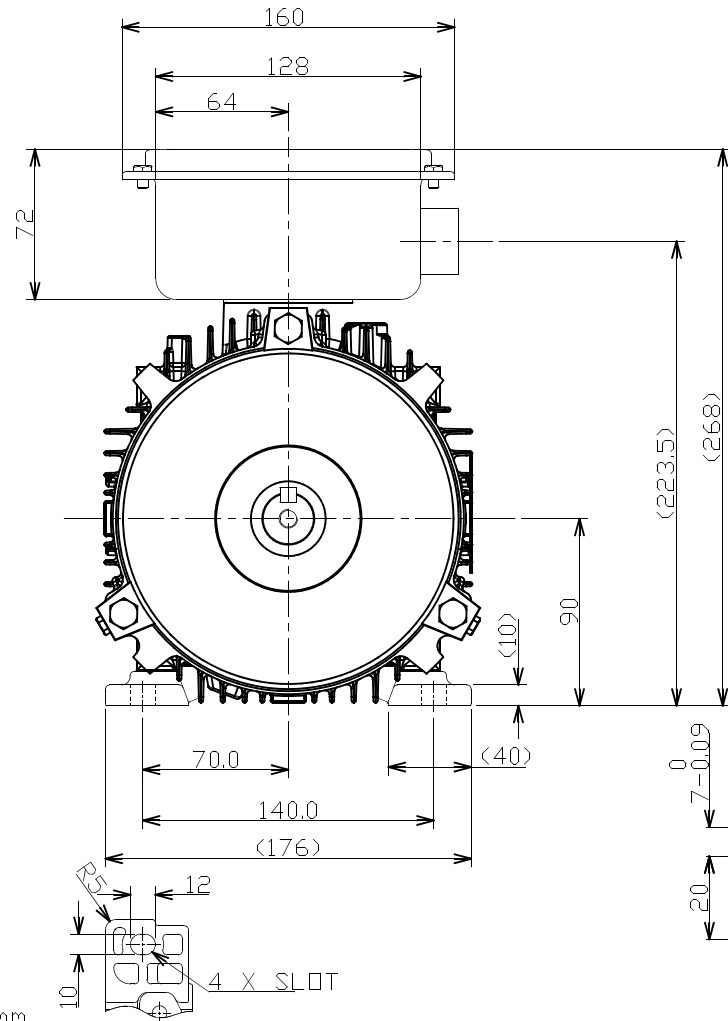




ROTATION:
CCW
VIEW FROM:
ODE

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
DL DRAWING IEC GLOBAL

TYPE: 2-4-6P -
400V
FRAME: 90L

3HFN000151

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

X. ±2.0
X.X ±0.5
X.XX ±0.1

MAXIMUM
MOTOR WEIGHT

- lbs.
- kgs.

NO	REVISION	DRAWN BY	DATE	CHECK

EQP Global SD
XT SERIES

DRAWN BY: HIEN. NGUYEN
CHECK BY: B.X.QUYNH
APPROVED BY: JAY BUGBEE
www.toshiba.com/ind

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: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 7.5/4.3	FLRPM: 2885
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y222SDMV7FS-PL		kW: 2.2	
NOM. EFF.: 85.9	MIN. EFF.: -	cosØ 0.86	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 64/37	FULL LOAD (lb-ft.): 5.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 365	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 300	

EFFICIENCY	POWER FACTOR
FULL LOAD: 86.1	FULL LOAD: 86.5
3/4 LOAD: 86.3	3/4 LOAD: 82.2
1/2 LOAD: 84.7	1/2 LOAD: 72.5

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: 1/7/2020

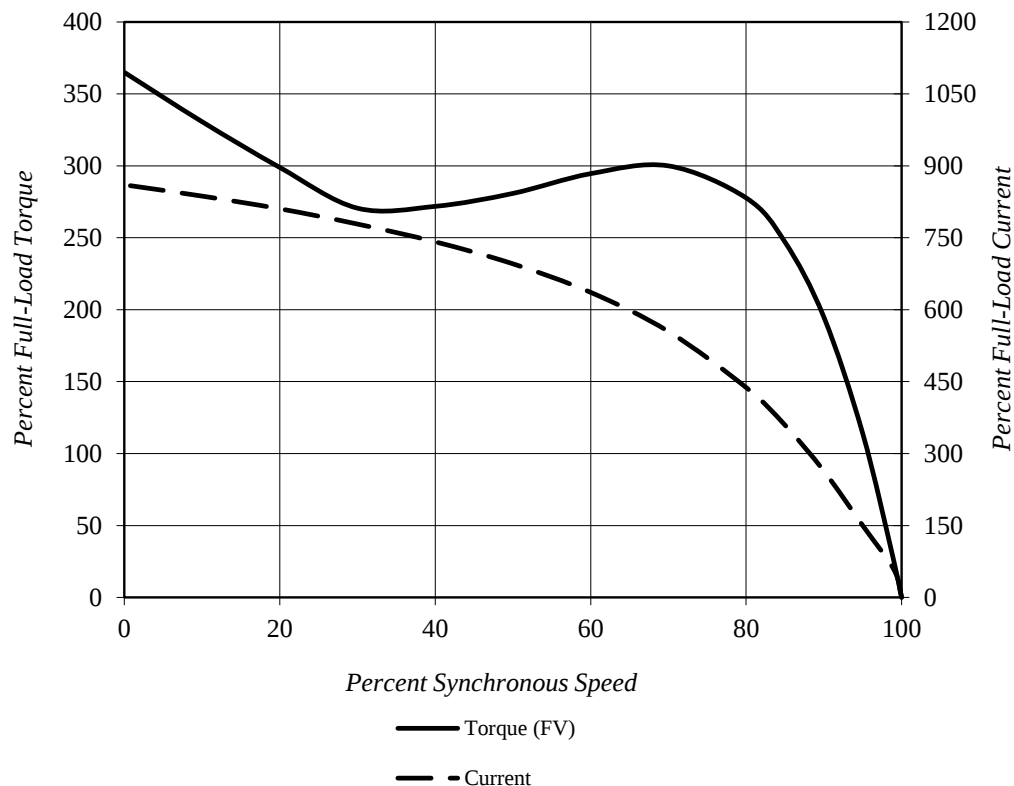
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y222SDMV7FS-PL			FLAmps:	7.5/4.3
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	2885	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)

Locked Rotor Amps:	64/37 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	5.3 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y22 (2.2kW)

Prepared by: Zichao Xie

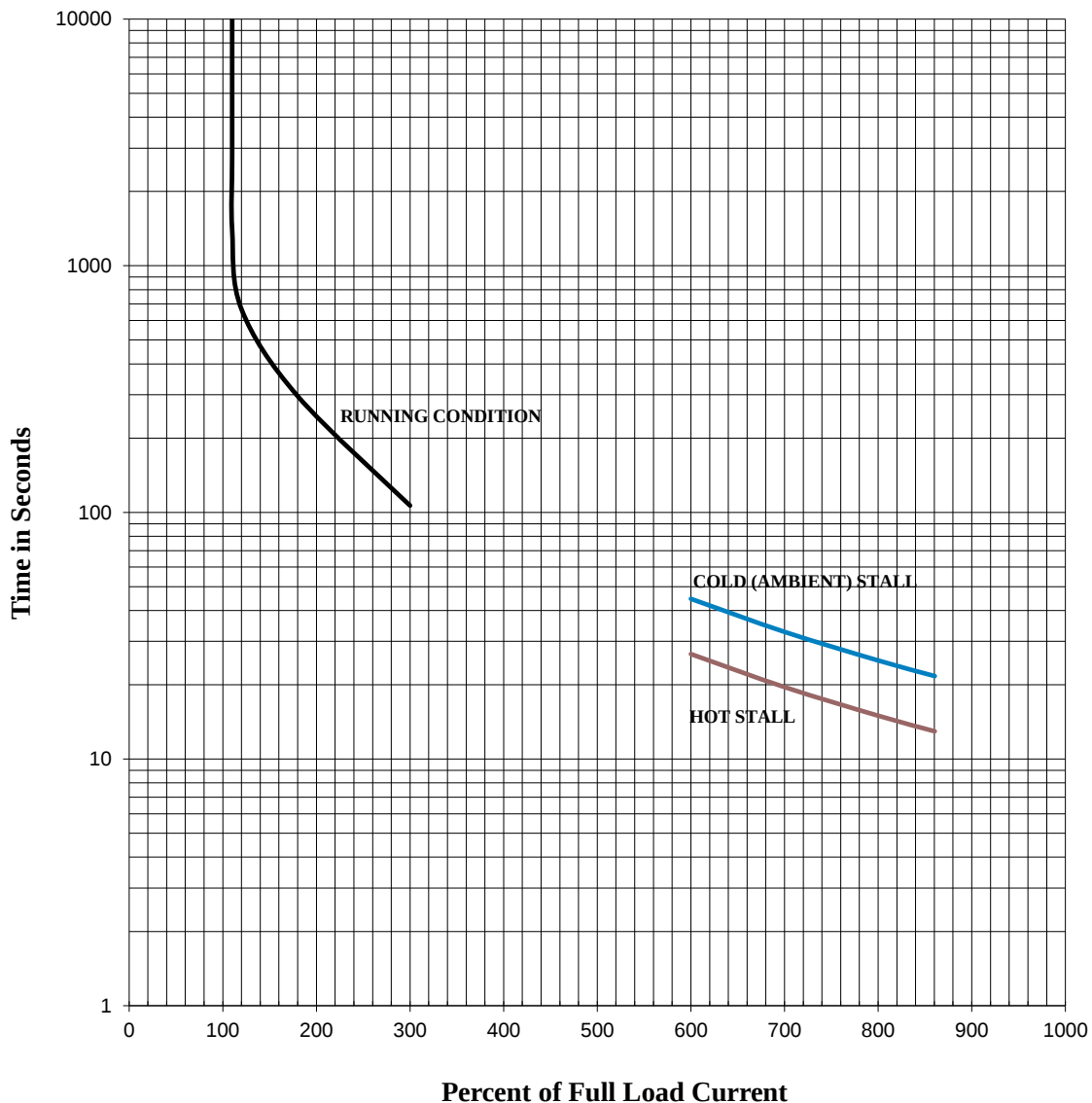
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y222SDMV7FS-PL			FLAmps:	7.5/4.3
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	2885	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH2Y22 (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: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 7.4/4.3	FLRPM: 2885
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y222SDMV7FS-PL		kW: 2.2	
NOM. EFF.: 85.9	MIN. EFF.: -	cosØ 0.83	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 66/38	FULL LOAD (lb-ft.): 5.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 450	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 320	

EFFICIENCY	POWER FACTOR
FULL LOAD: 86.0	FULL LOAD: 83.1
3/4 LOAD: 85.9	3/4 LOAD: 77.4
1/2 LOAD: 83.8	1/2 LOAD: 66.1

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: 12/27/2019

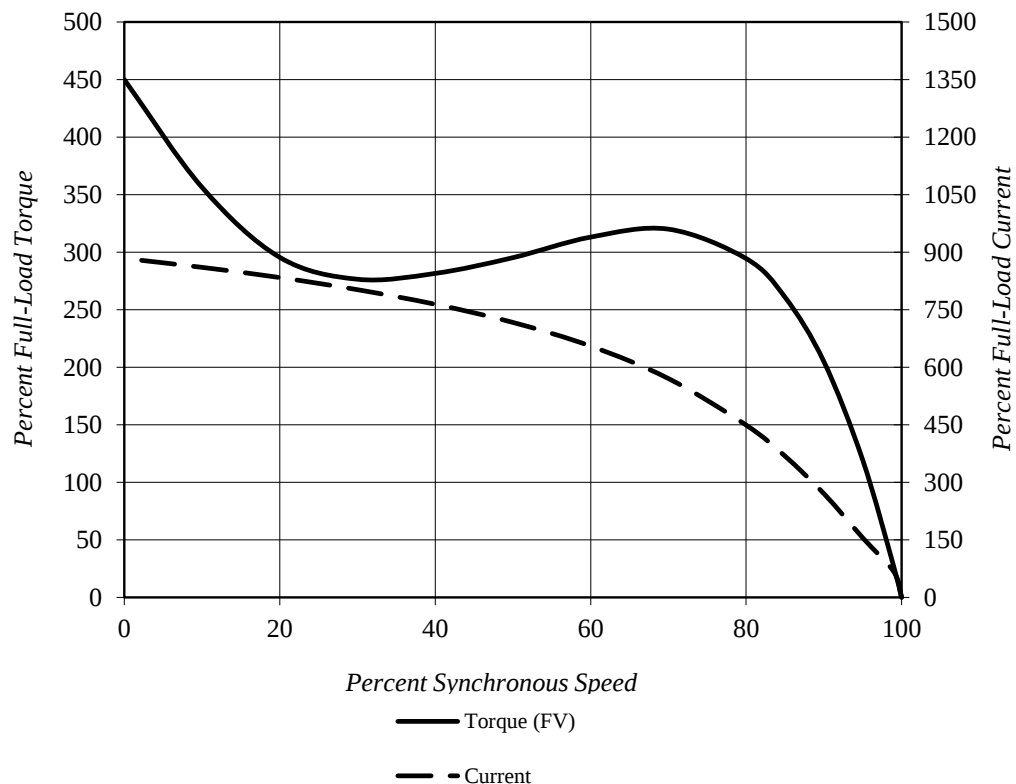
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y222SDMV7FS-PL			FLAmps:	7.4/4.3
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	12/27/2019
FLRPM:	2885	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)

Locked Rotor Amps:	66/38 A	Load Type:	N/A
Locked Rotor Torque:	450%	Starting at:	N/A
Breakdown Torque:	320%	Accel. Time:	N/A
Rated Torque:	5.3 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y22 (2.2kW)

Prepared by: Zichao Xie

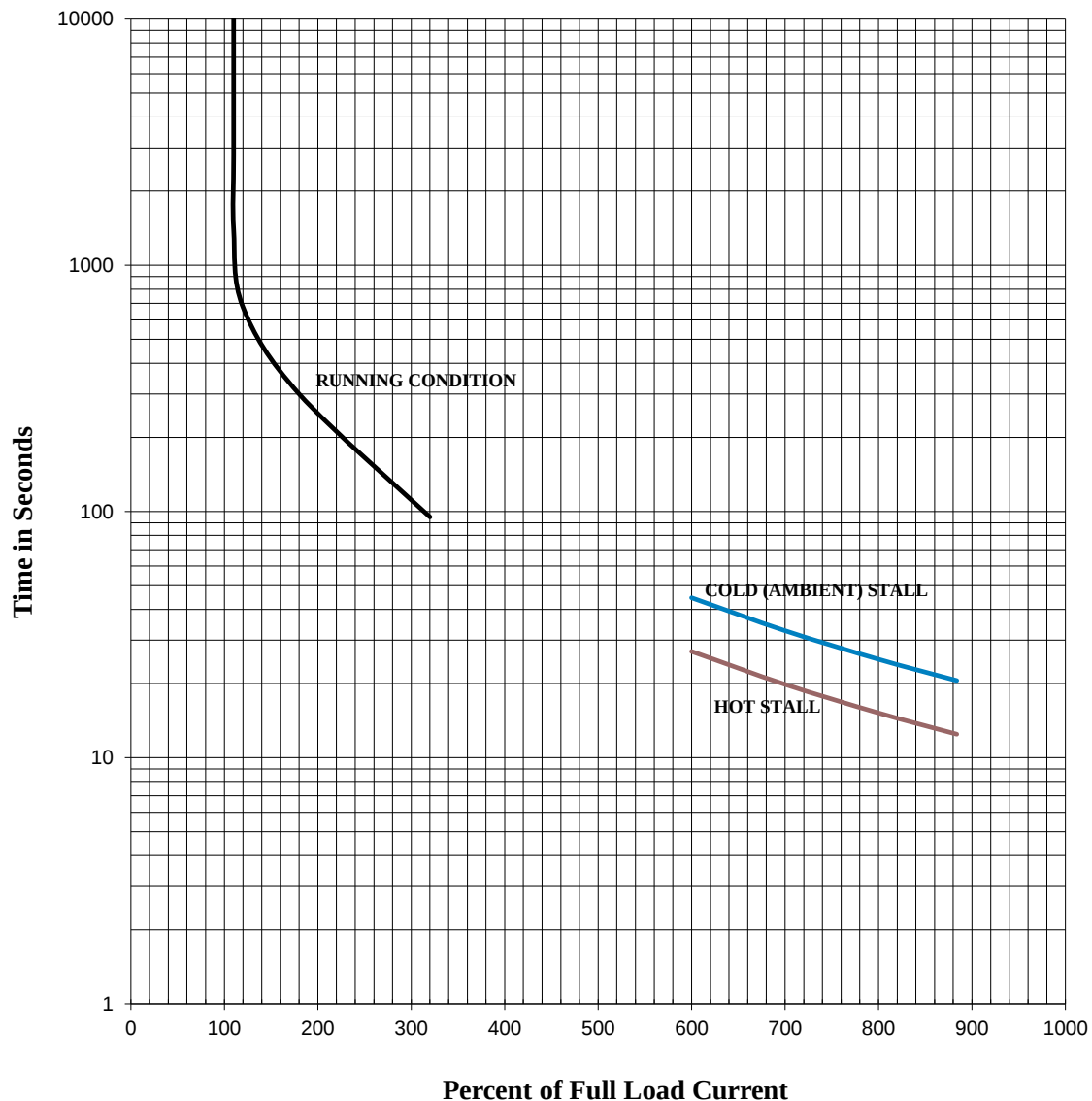
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y222SDMV7FS-PL			FLAmps:	7.4/4.3
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	12/27/2019
FLRPM:	2885	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH2Y22 (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: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 7.8/4.5	FLRPM: 2865
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y222SDMV7FS-PL		kW: 2.2	
NOM. EFF.: 85.9	MIN. EFF.: -	cosØ 0.88	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 61/35	FULL LOAD (lb-ft.): 5.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 365	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 270	

EFFICIENCY	POWER FACTOR
FULL LOAD: 84.7	FULL LOAD: 88.4
3/4 LOAD: 85.4	3/4 LOAD: 85.3
1/2 LOAD: 84.4	1/2 LOAD: 77.6

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: 1/7/2020

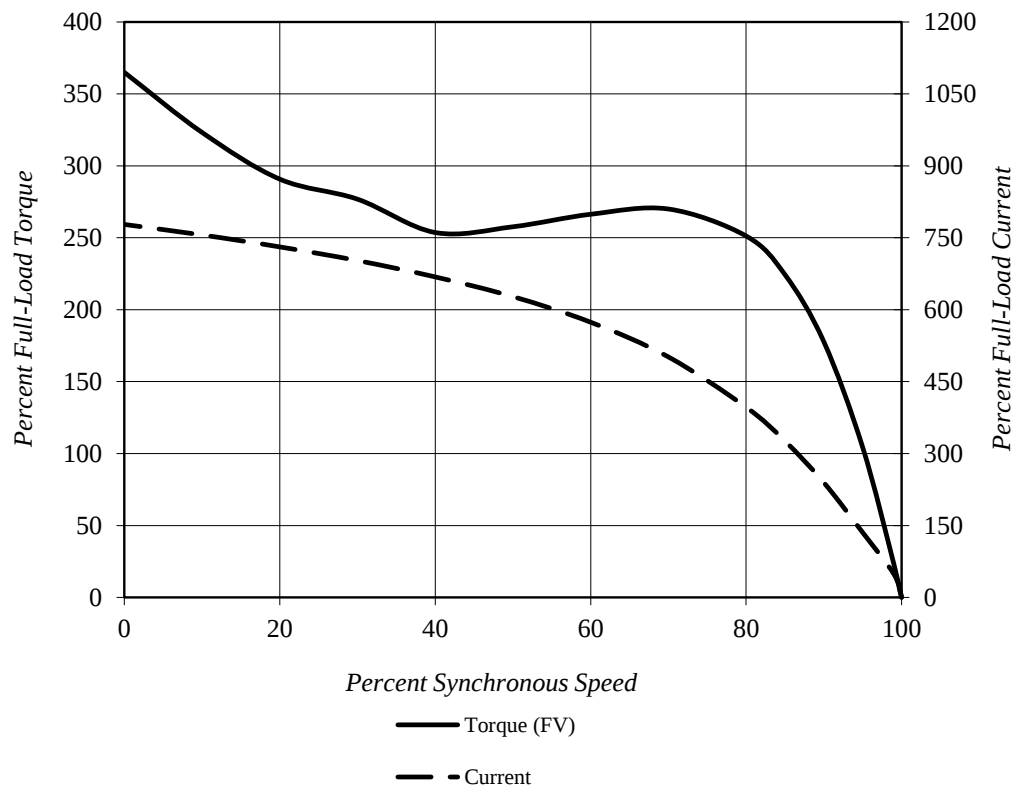
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y222SDMV7FS-PL			FLAmps:	7.8/4.5
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	2865	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)

Locked Rotor Amps:	61/35 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	270%	Accel. Time:	N/A
Rated Torque:	5.3 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y22 (2.2kW)

Prepared by: Zichao Xie

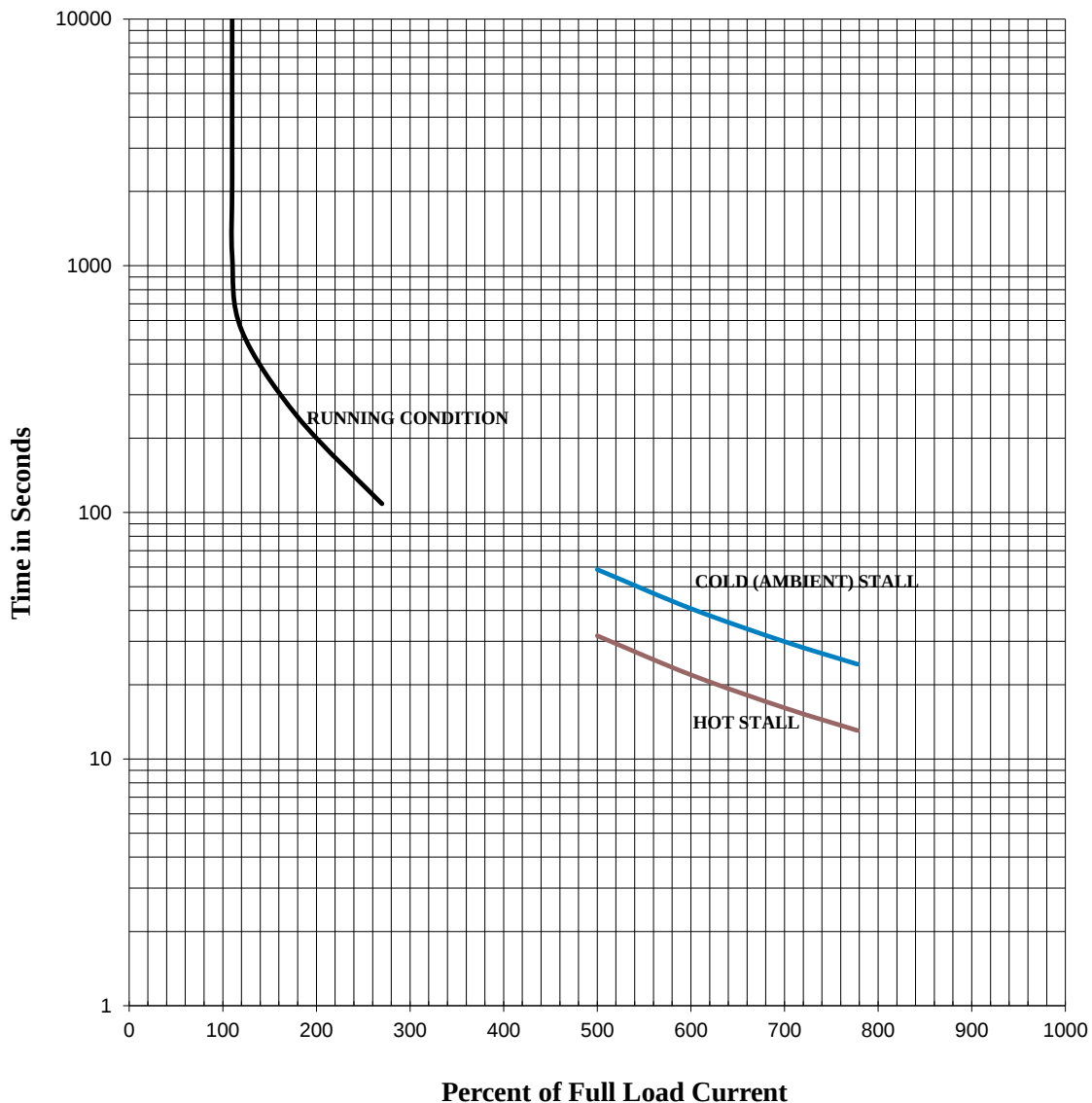
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y222SDMV7FS-PL			FLAmps:	7.8/4.5
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	2865	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH2Y22 (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: 3600
FRAME: 90L	ENCL: TEFC	FLAMPS: 3.7	FLRPM: 3505
FORM: FCK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: Y222SDMV7FS-PL		kW: 2.2	
NOM. EFF.: 86.5	MIN. EFF.: -	P.F.: 85.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 39	FULL LOAD (lb-ft.): 4.3	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 420	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 335	

EFFICIENCY	POWER FACTOR
FULL LOAD: 88.1	FULL LOAD: 85.3
3/4 LOAD: 87.6	3/4 LOAD: 80.9
1/2 LOAD: 85.3	1/2 LOAD: 71.3

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).
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CERTIFIED BY: Zichao Xie

DATE: 1/7/2020

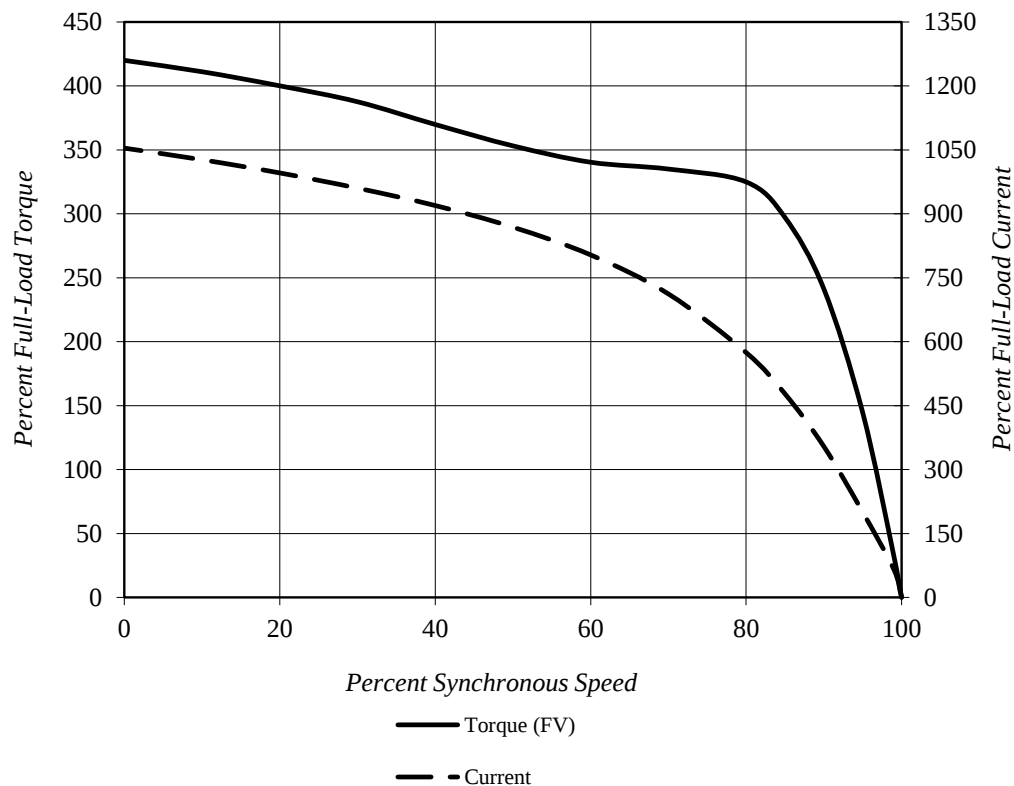
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y222SDMV7FS-PL			FLAmps:	3.7
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	3505	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)

Locked Rotor Amps:	39 A	Load Type:	N/A
Locked Rotor Torque:	420%	Starting at:	N/A
Breakdown Torque:	335%	Accel. Time:	N/A
Rated Torque:	4.3 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y22 (2.2kW)

Prepared by: Zichao Xie

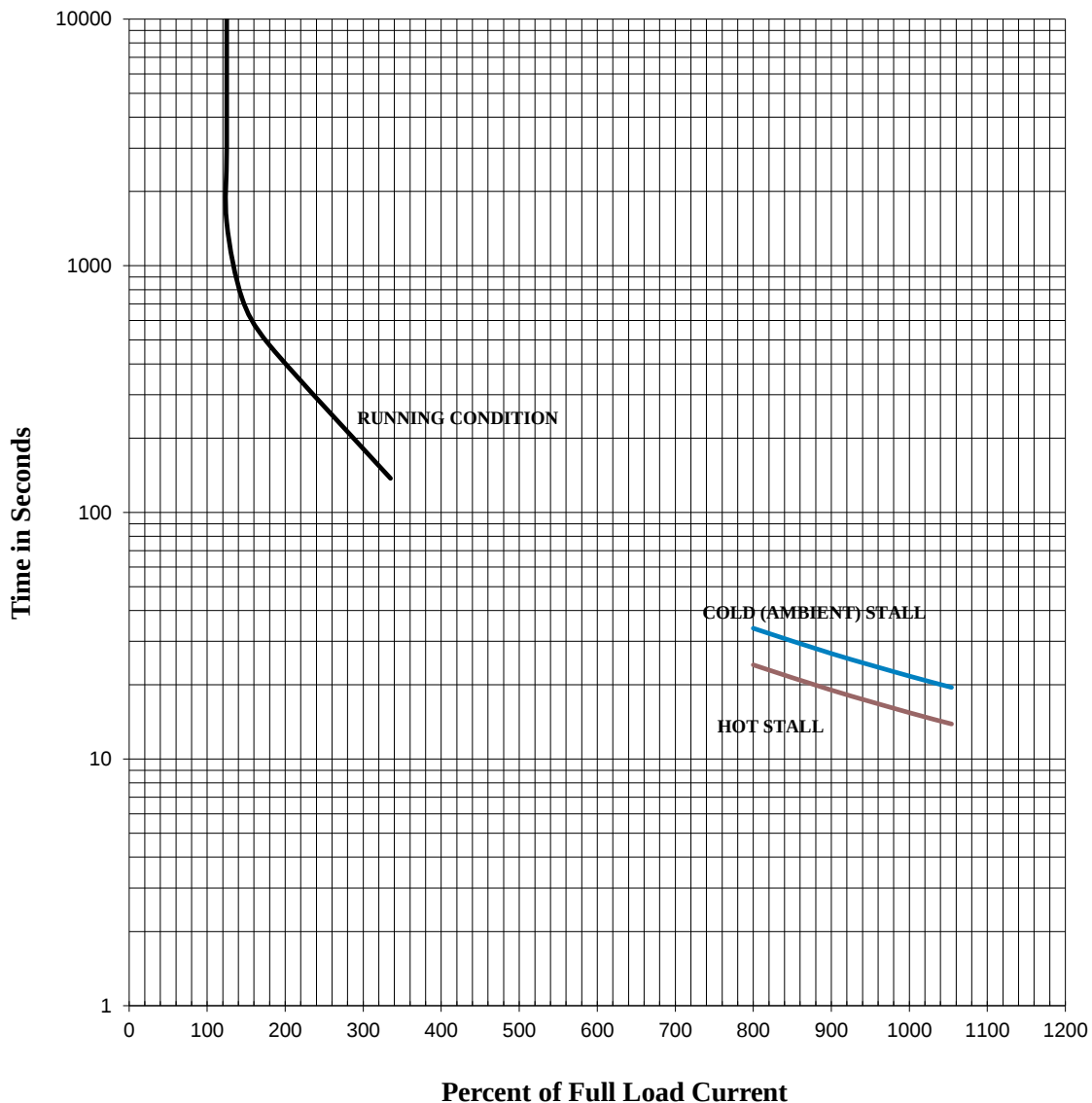
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y222SDMV7FS-PL			FLAmps:	3.7
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.09 lb-ft ²	Date:	1/7/2020
FLRPM:	3505	Load Inertia:	N/A	File:	GH2Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH2Y22 (2.2kW)

Prepared by: Zichao Xie

Checked by: