

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.

B14-FLANGE MOTOR
OL DRAWING IEC GLOBAL
3HFN000331
TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TYPE: 6P - 400V	TOLERANCES				
FRAME: 112M	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: 1000
FRAME: 112M	ENCL: TEFC	FLAMPS: 8.5/4.9	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y226SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 84.3	MIN. EFF.: -	cosØ 0.72	

AMPERAGE

LOCKED ROTOR: 64/37

TORQUES

FULL LOAD (lb-ft.): 15.7
LOCKED ROTOR (%): 280
BREAK DOWN (%): 480

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 89.8
3/4 LOAD: 89.5
1/2 LOAD: 87.3

POWER FACTOR

FULL LOAD: 72.1
3/4 LOAD: 66.5
1/2 LOAD: 55.7

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: 6/25/2020

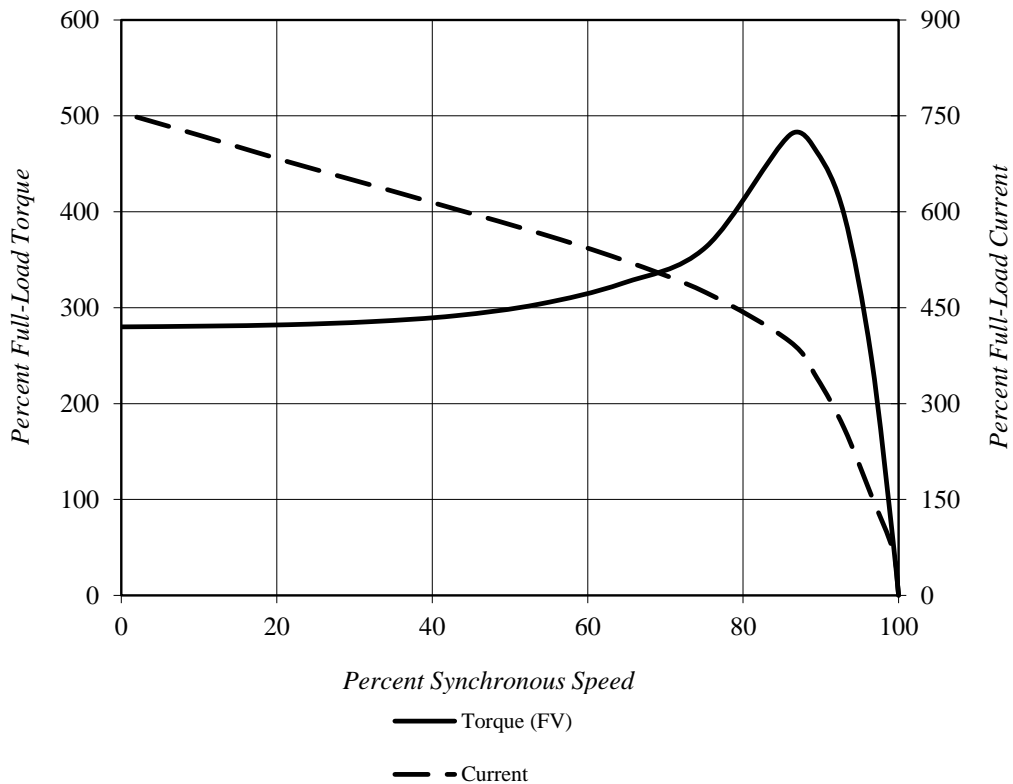
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y226SDMV7KS-PL			FLAmps:	8.5/4.9
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)

Locked Rotor Amps:	64/37 A	Load Type:	N/A
Locked Rotor Torque:	280%	Starting at:	N/A
Breakdown Torque:	480%	Accel. Time:	N/A
Rated Torque:	15.7 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

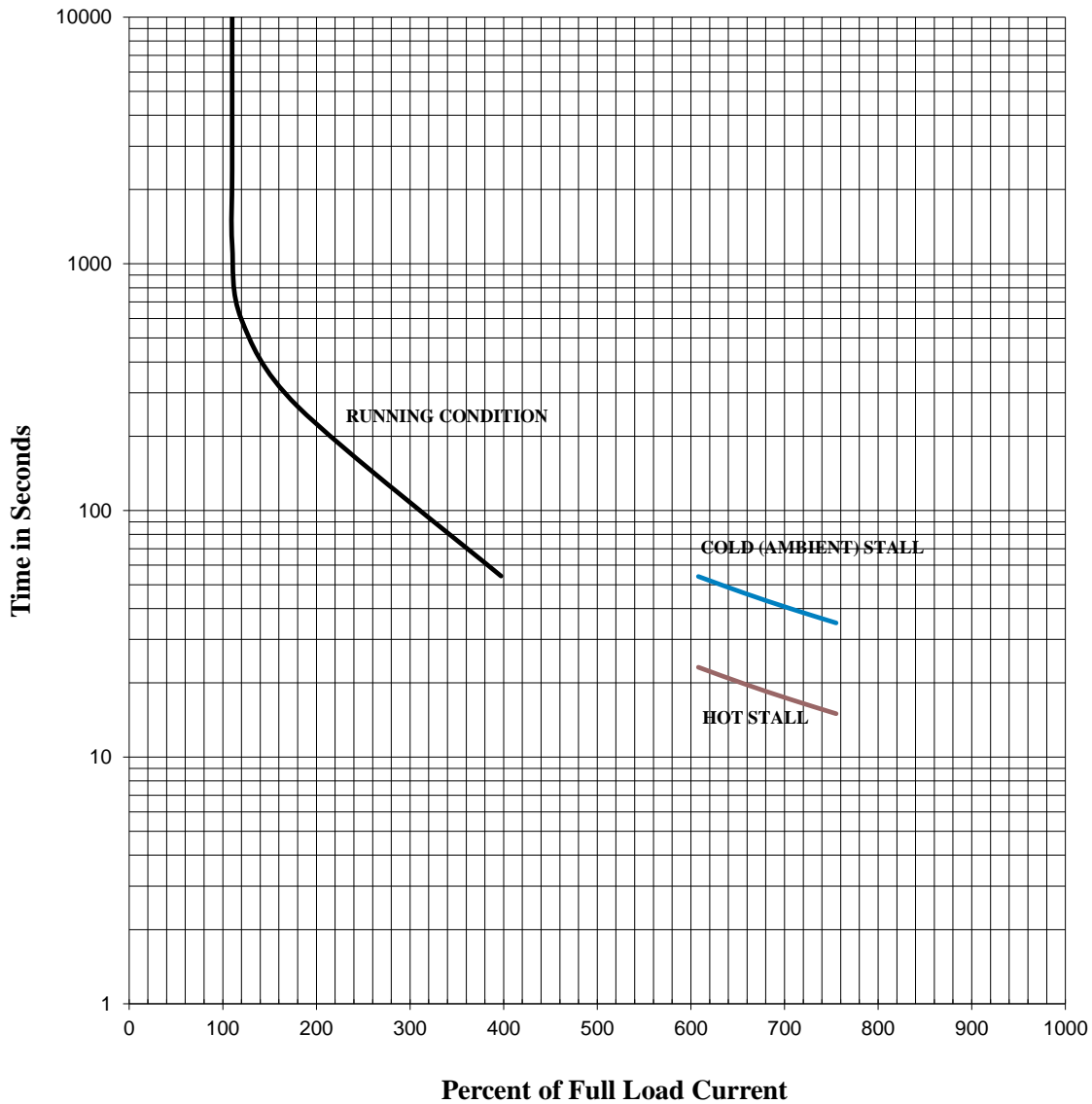
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y226SDMV7KS-PL			FLAmps:	8.5/4.9
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)



Comments: PROJECT -

D.E. Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

Checked by:

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Industrial Division / Houston Motor Plant

SQUIRREL CAGE INDUCTION MOTOR
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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 112M	ENCL: TEFC	FLAMPS: 8.3/4.8	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y226SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 84.3	MIN. EFF.: -	cosØ 0.70	

AMPERAGE

LOCKED ROTOR: 68/39

TORQUES

FULL LOAD (lb-ft.): 15.6
LOCKED ROTOR (%): 310
BREAK DOWN (%): 515

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 90.0
3/4 LOAD: 89.5
1/2 LOAD: 86.9

POWER FACTOR

FULL LOAD: 70.8
3/4 LOAD: 64.6
1/2 LOAD: 53.3

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: 6/25/2020

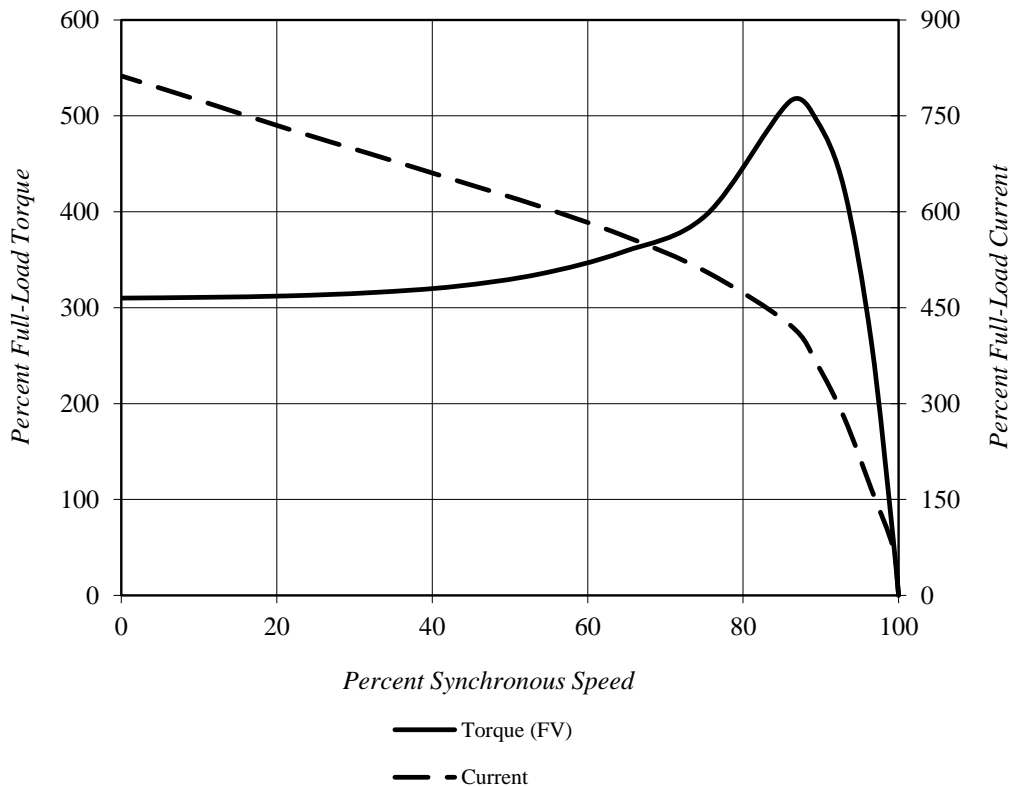
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y226SDMV7KS-PL			FLAmps:	8.3/4.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)

Locked Rotor Amps:	68/39 A	Load Type:	N/A
Locked Rotor Torque:	310%	Starting at:	N/A
Breakdown Torque:	515%	Accel. Time:	N/A
Rated Torque:	15.6 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

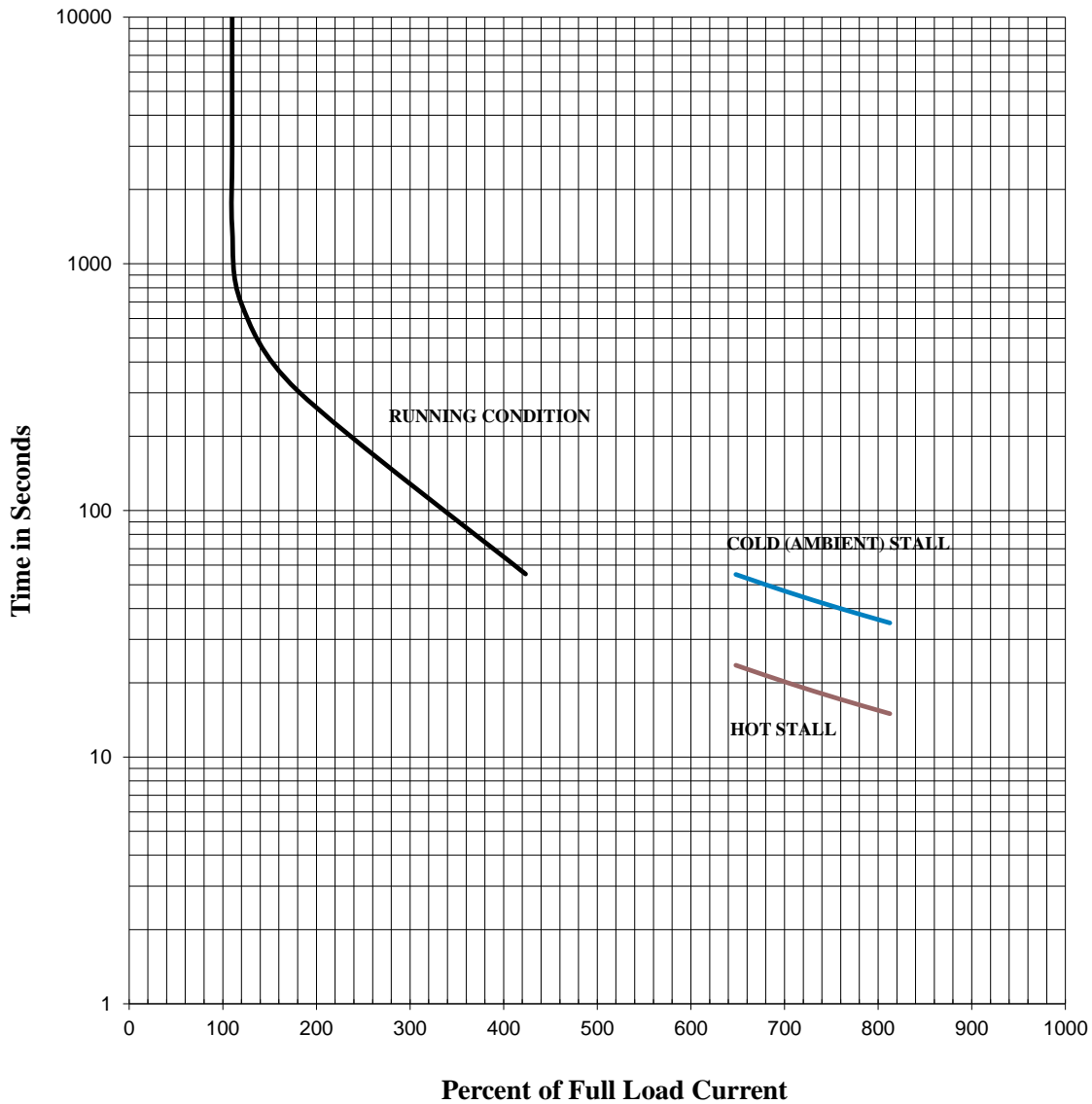
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y226SDMV7KS-PL			FLAmps:	8.3/4.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH6Y22 (2.2kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 112M	ENCL: TEFC	FLAMPS: 8.8/5.1	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y226SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 84.3	MIN. EFF.: -	cosØ 0.73	

AMPERAGE

LOCKED ROTOR: 59/34

TORQUES

FULL LOAD (lb-ft.): 15.7
LOCKED ROTOR (%): 240
BREAK DOWN (%): 440

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 89.3
3/4 LOAD: 89.4
1/2 LOAD: 87.6

POWER FACTOR

FULL LOAD: 73.5
3/4 LOAD: 68.8
1/2 LOAD: 58.7

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
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DATE: 6/25/2020

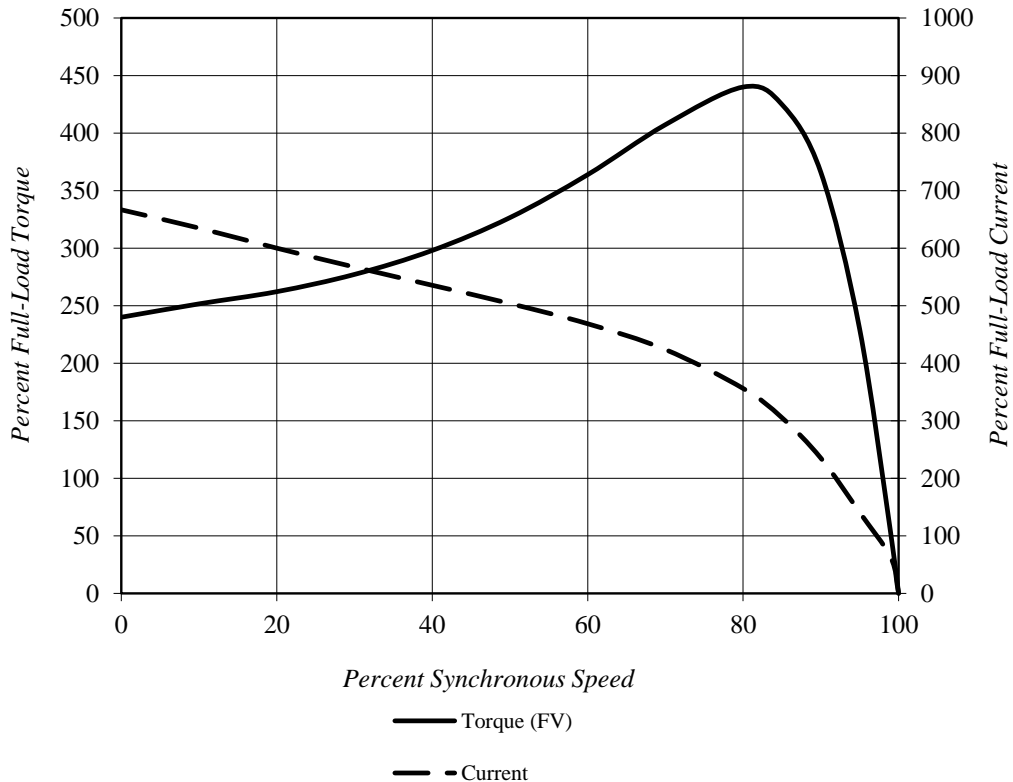
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y226SDMV7KS-PL			FLAmps:	8.8/5.1
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)

Locked Rotor Amps:	59/34 A	Load Type:	N/A
Locked Rotor Torque:	240%	Starting at:	N/A
Breakdown Torque:	440%	Accel. Time:	N/A
Rated Torque:	15.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

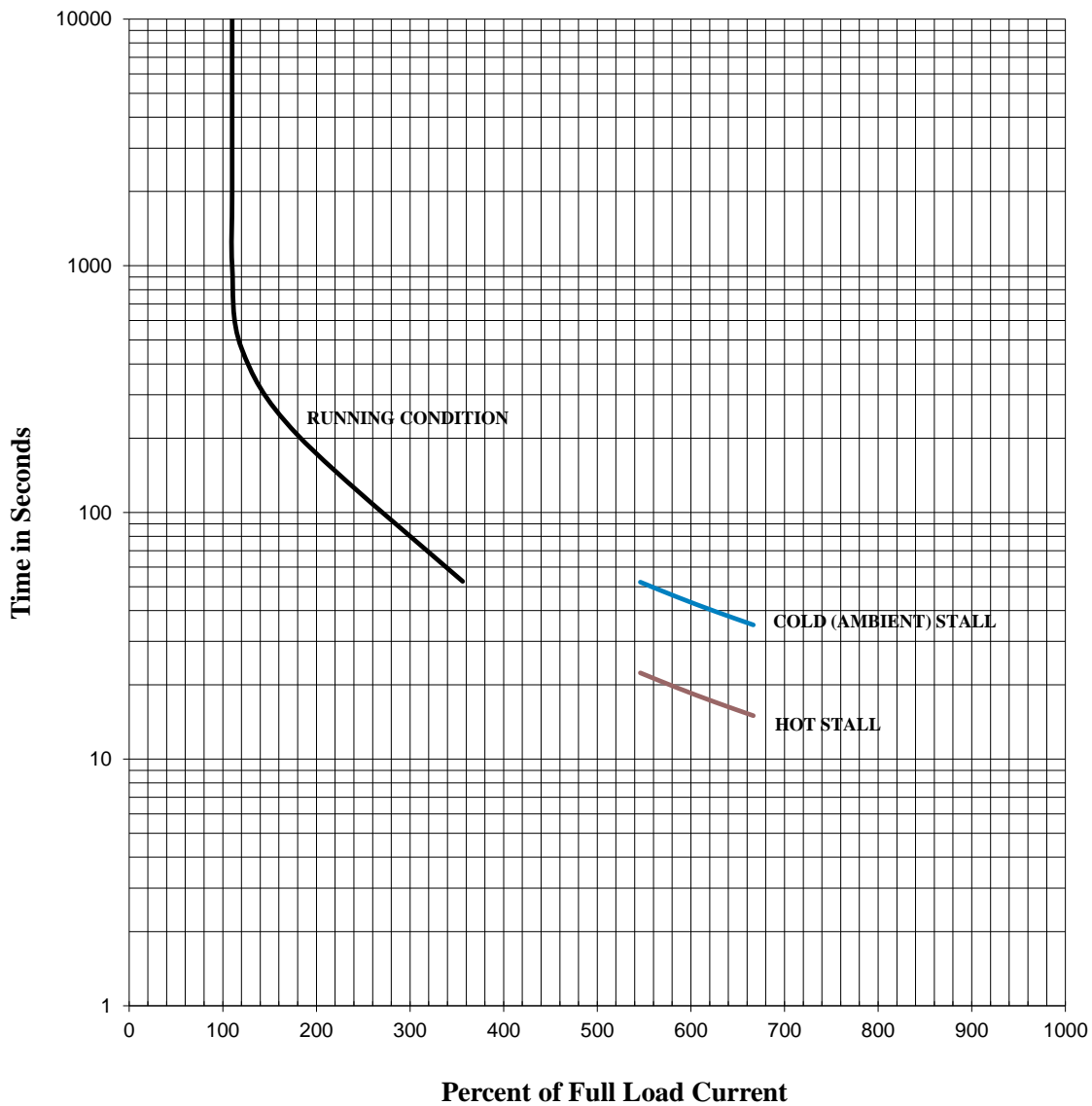
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y226SDMV7KS-PL			FLAmps:	8.8/5.1
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	2.2	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)



Comments: PROJECT -

D.E. Curve #: GH6Y22 (2.2kW)

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APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 3	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 112M	ENCL: TEFC	FLAMPS: 4.5	FLRPM: 1175
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: Y226SDMV7KS-PL		kW: 2.2	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 68.5	

AMPERAGE

LOCKED ROTOR: 34

TORQUES

FULL LOAD (lb-ft.): 12.9
LOCKED ROTOR (%): 365
BREAK DOWN (%): 545

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 90.4
3/4 LOAD: 89.5
1/2 LOAD: 86.6

POWER FACTOR

FULL LOAD: 68.5
3/4 LOAD: 62.4
1/2 LOAD: 51.3

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

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DATE: 6/25/2020

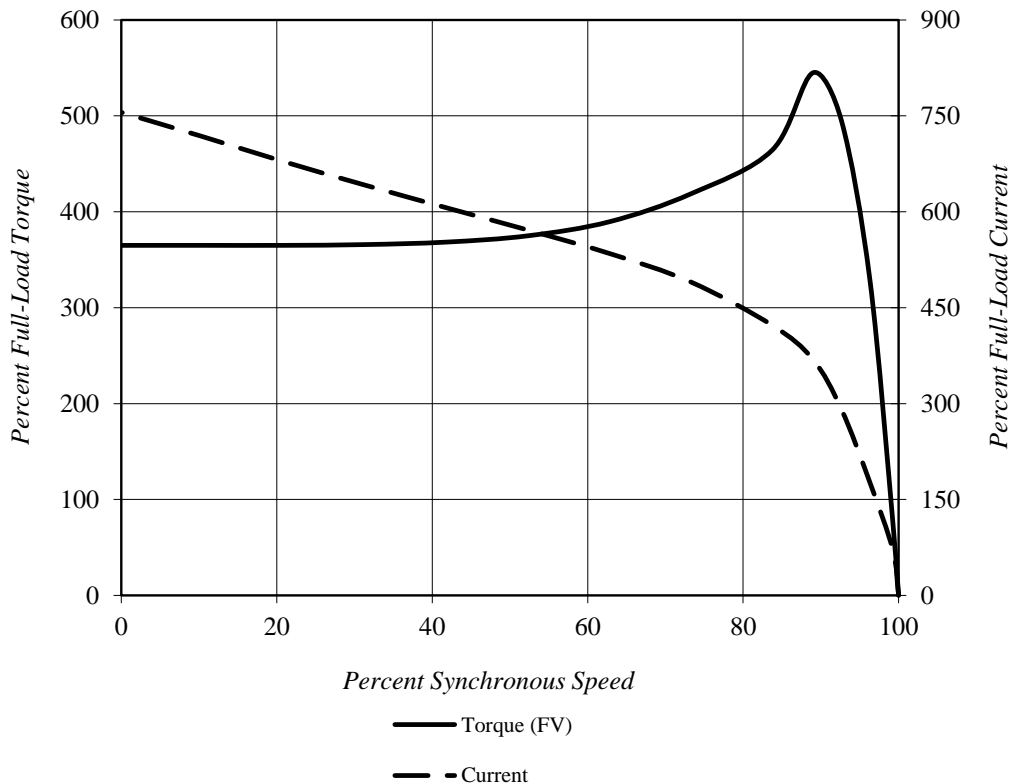
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y226SDMV7KS-PL			FLAmps:	4.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)

Locked Rotor Amps:	34 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	545%	Accel. Time:	N/A
Rated Torque:	12.9 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

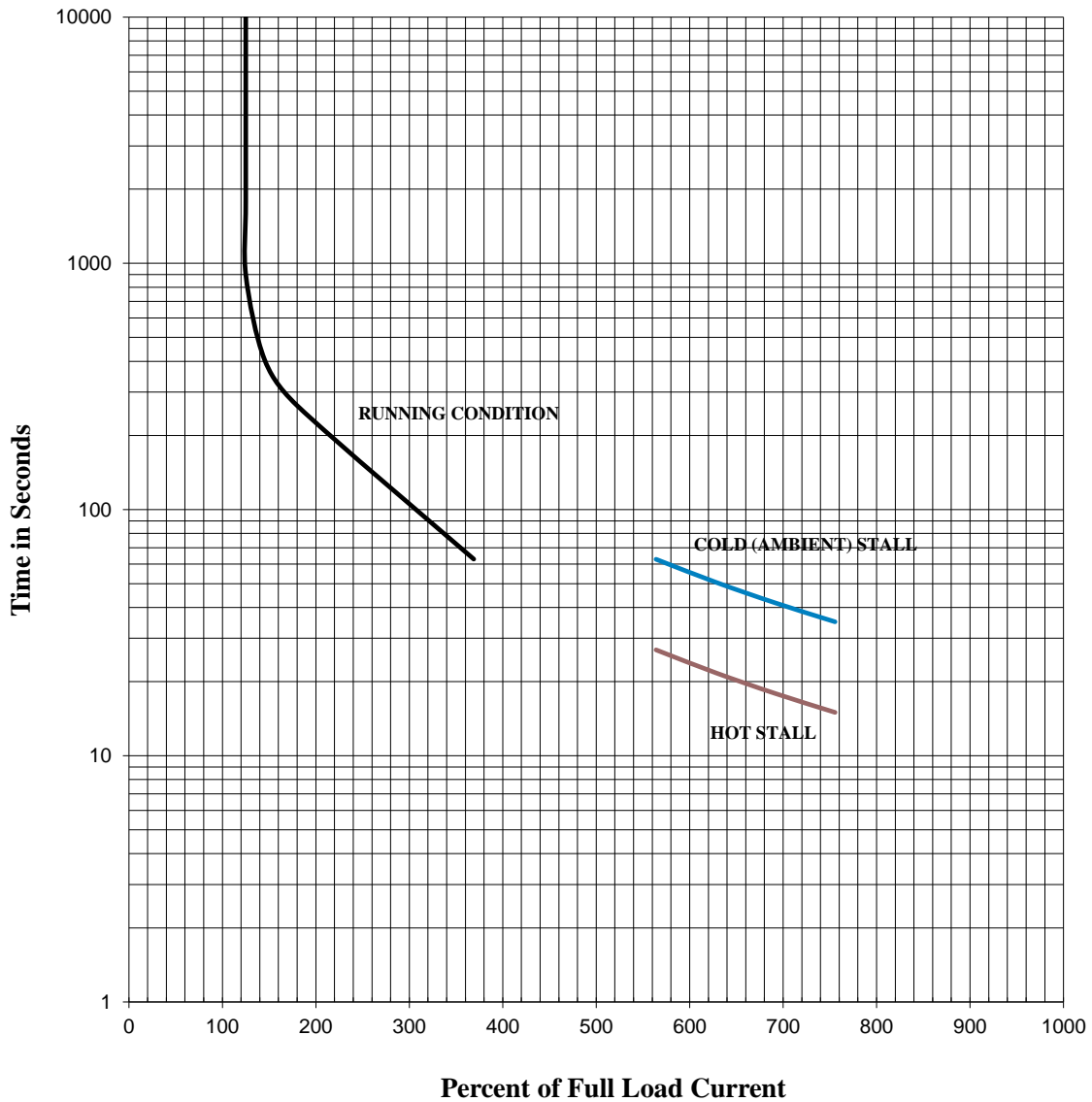
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y226SDMV7KS-PL			FLAmps:	4.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	112M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	3	Rotor Inertia:	0.82 lb-ft ²	Date:	6/25/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y22 (2.2kW)



Comments: PROJECT -

D.E.Curve #: GH6Y22 (2.2kW)

Prepared by: Zichao Xie

Checked by: