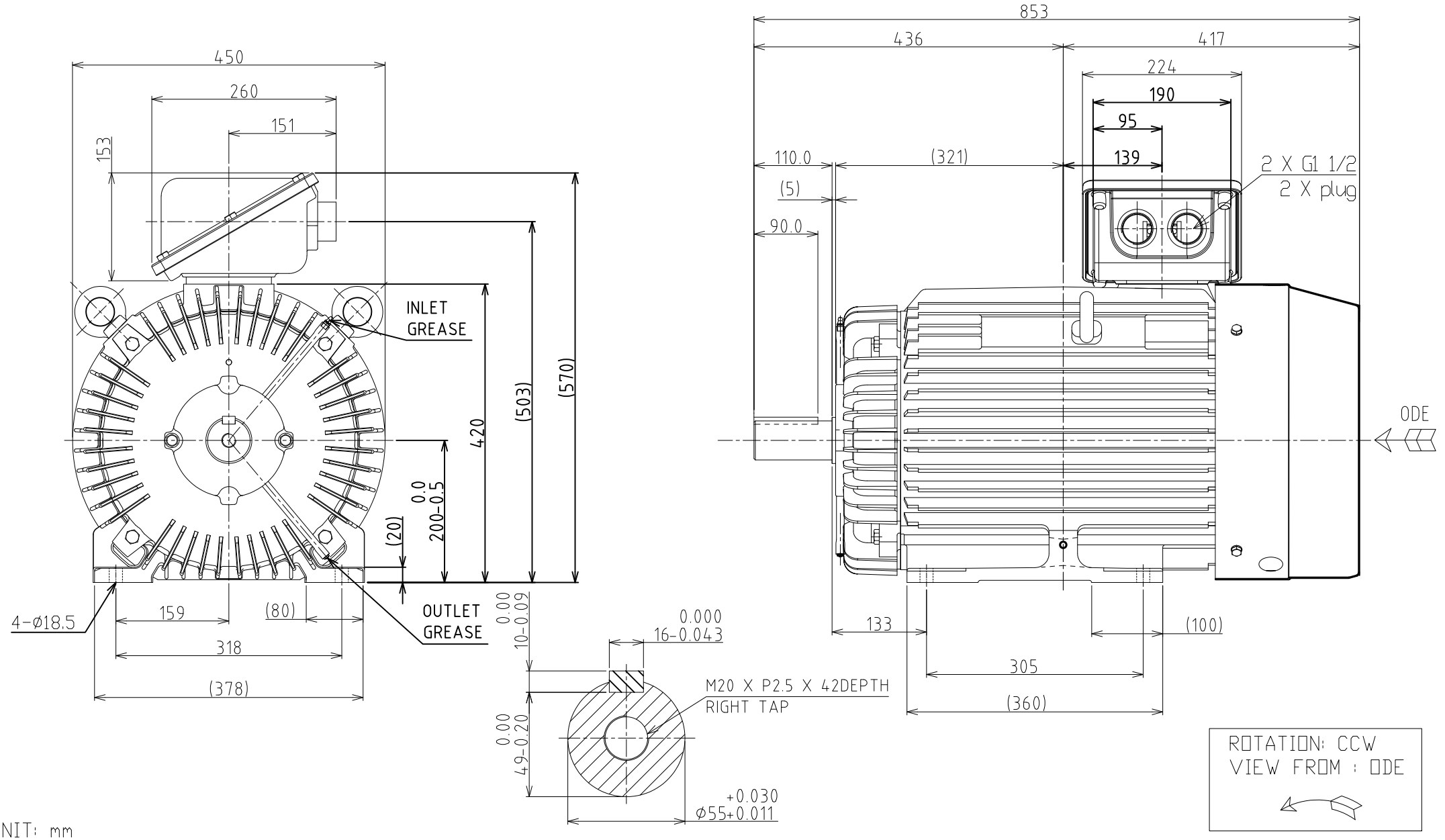

UNIT: mm

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

FRAME: 200L

3HFN000170

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
02	change to M20S-EB	T.Danh	May-07-18	Q.Hung
01	change to fancover	T.Danh	Feb-08-18	Q.Hung

EQP Global SD
XT SERIES

DRAWN BY: HIEN. NGUYEN
CHECK BY: B.X.QUYNH
APPROVED BY: JAY BUGBEE

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TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR
PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	400	3 PH /	50 Hz	S. RPM:	3000
FRAME:	200L	ENCL:	TEFC	FLAMPS:	67	FLRPM:	2970
FORM:	FCK1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0372SDMW7FS-P			kW:	37		
NOM. EFF.:	93.7	MIN. EFF.:	-	cosØ	0.84		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	655	FULL LOAD (lb-ft.):	88	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	340	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	400		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	95.0	FULL LOAD:	84.0
3/4 LOAD:	93.9	3/4 LOAD:	79.7
1/2 LOAD:	91.4	1/2 LOAD:	70.3

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: 1/14/2020

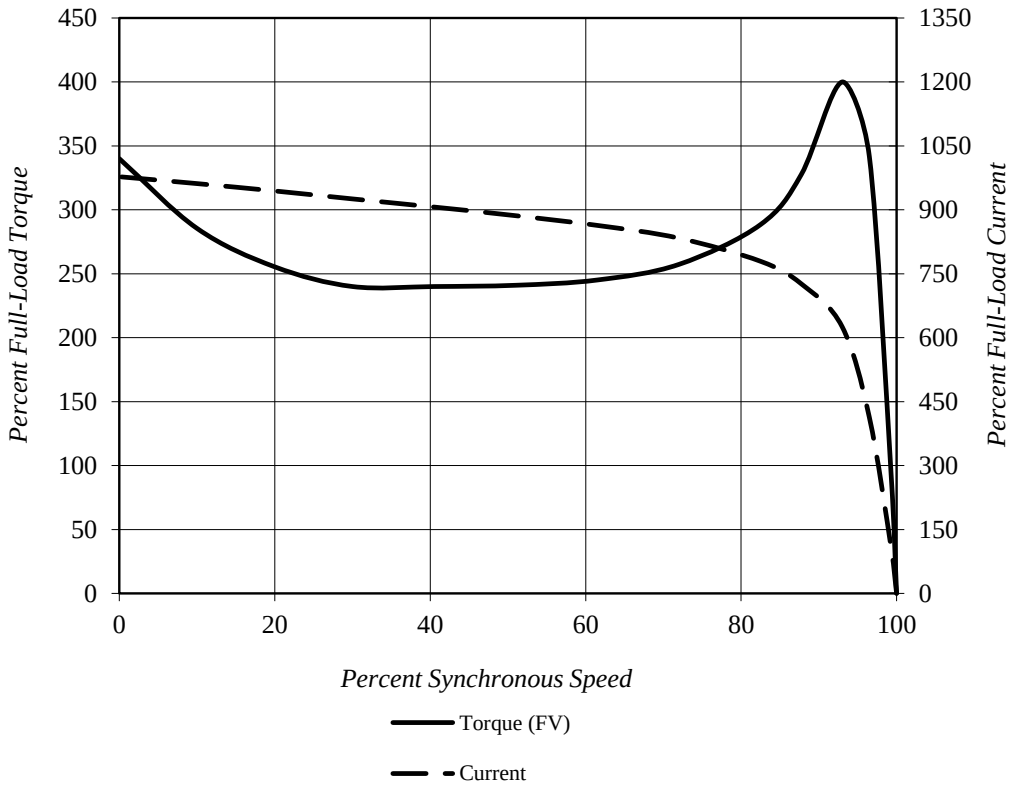
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			***FLAmps:***	67
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2970	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)

Locked Rotor Amps:	655 A	***Load Type:***	N/A
Locked Rotor Torque:	340%	***Starting at:***	N/A
Breakdown Torque:	400%	***Accel. Time:***	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

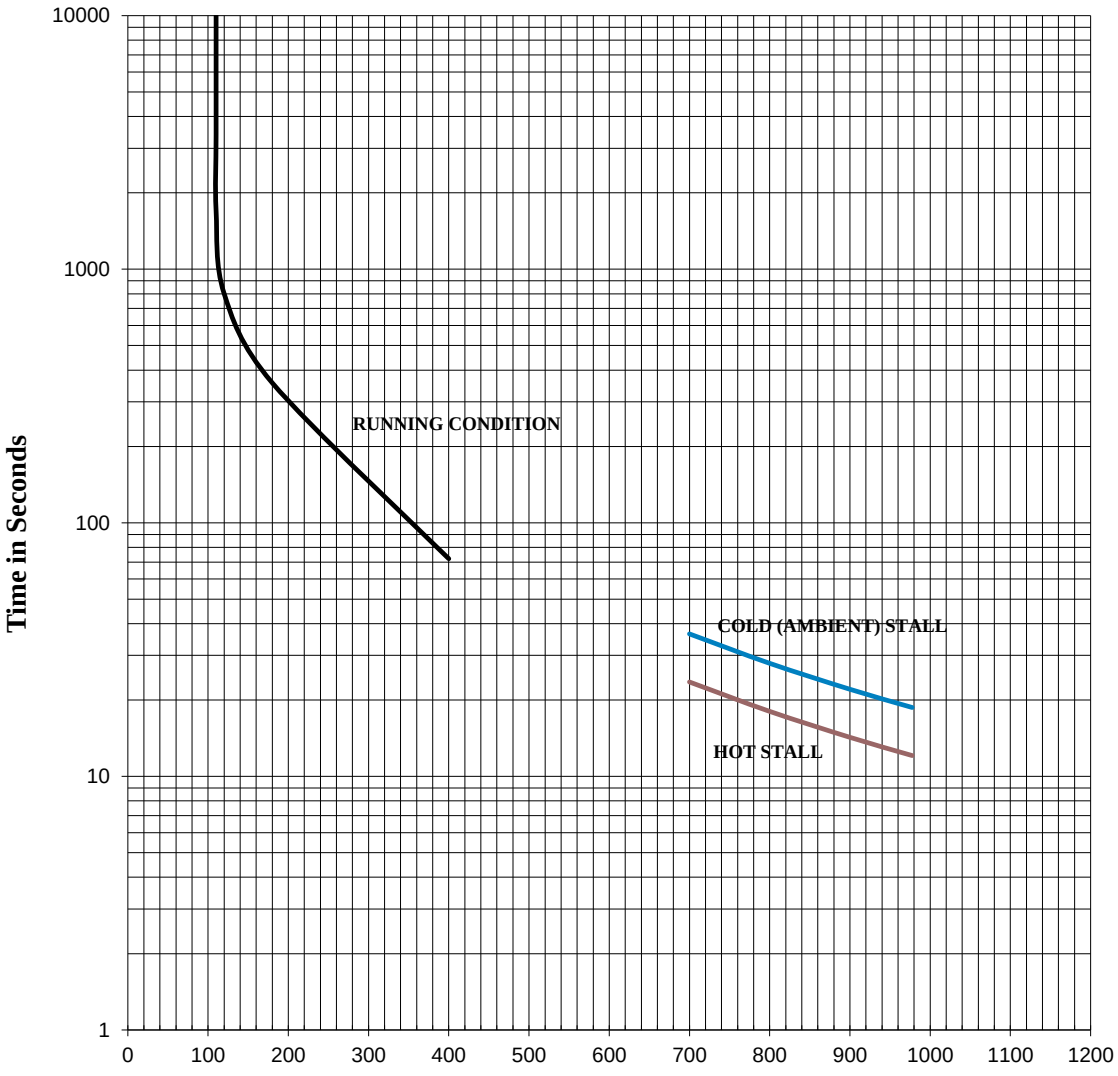
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			***FLAmps:***	67
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2970	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR
PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	415	3 PH /	50 Hz	S. RPM:	3000
FRAME:	200L	ENCL:	TEFC	FLAMPS:	66	FLRPM:	2970
FORM:	FCK1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0372SDMW7FS-P			kW:	37		
NOM. EFF.:	93.7	MIN. EFF.:	-	cosØ	0.81		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	683	FULL LOAD (lb-ft.):	88	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	370	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	430		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	95.3	FULL LOAD:	81.8
3/4 LOAD:	94.1	3/4 LOAD:	76.5
1/2 LOAD:	91.4	1/2 LOAD:	65.8

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: 1/14/2020

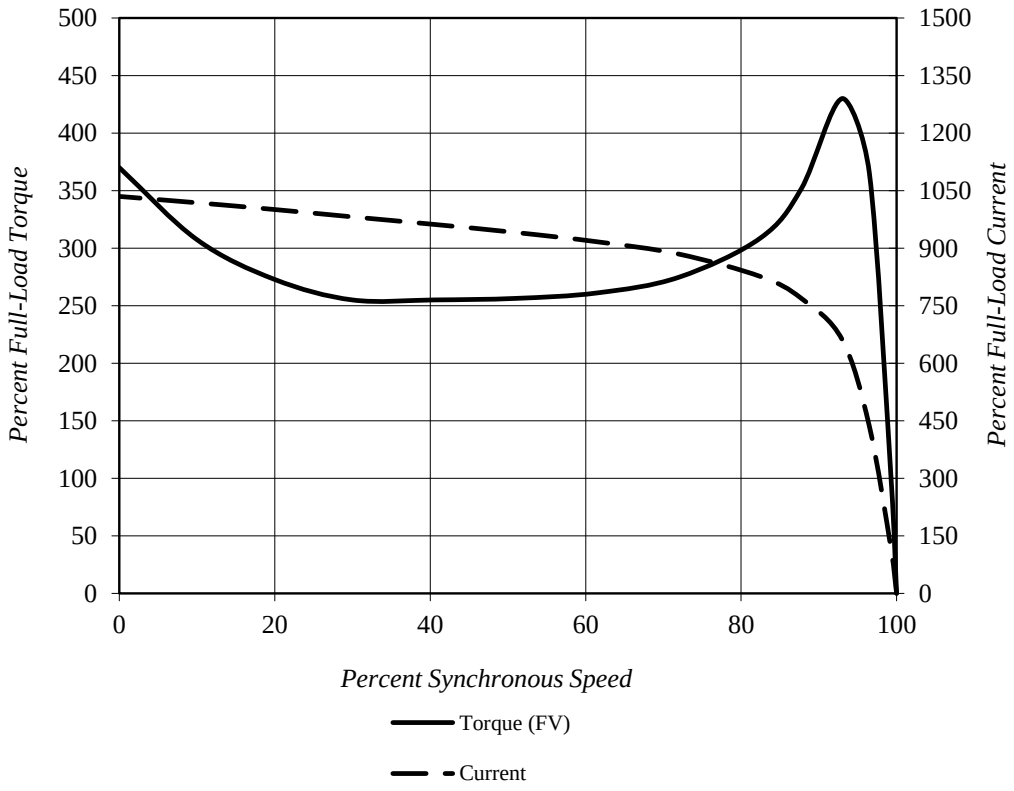
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			***FLAmps:***	66
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2970	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)

Locked Rotor Amps:	683 A	***Load Type:***	N/A
Locked Rotor Torque:	370%	***Starting at:***	N/A
Breakdown Torque:	430%	***Accel. Time:***	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

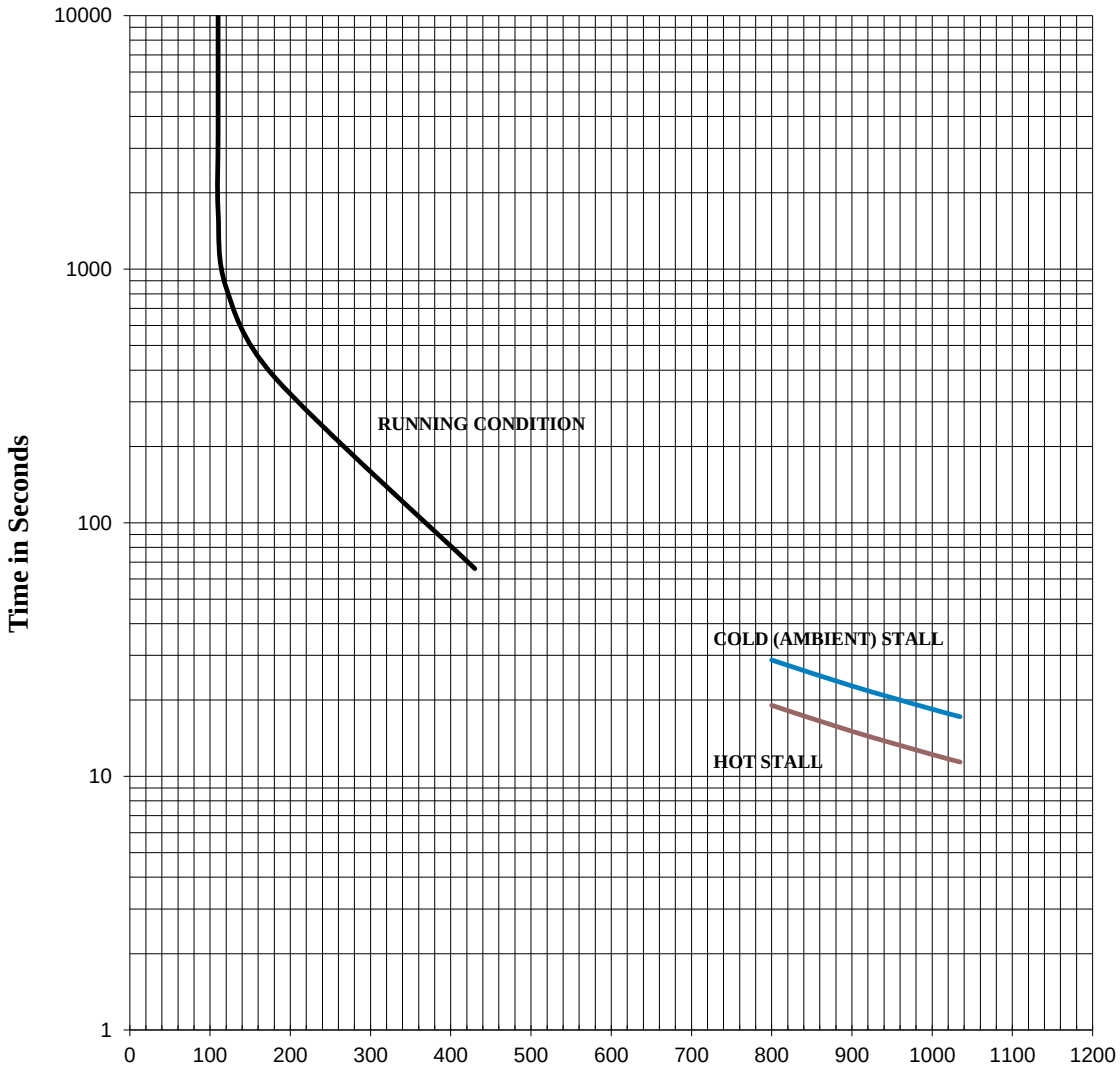
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			***FLAmps:***	66
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2970	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	380	3 PH /	50 Hz	S. RPM:	3000
FRAME:	200L	ENCL:	TEFC	FLAMPS:	68	FLRPM:	2965
FORM:	FCK1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0372SDMW7FS-P			kW:	37		
NOM. EFF.:	93.7	MIN. EFF.:	-	cosØ	0.86		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	617	FULL LOAD (lb-ft.):	88	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	300	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	365		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	94.9	FULL LOAD:	86.6
3/4 LOAD:	94.0	3/4 LOAD:	83.6
1/2 LOAD:	91.7	1/2 LOAD:	76.2

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: 1/14/2020

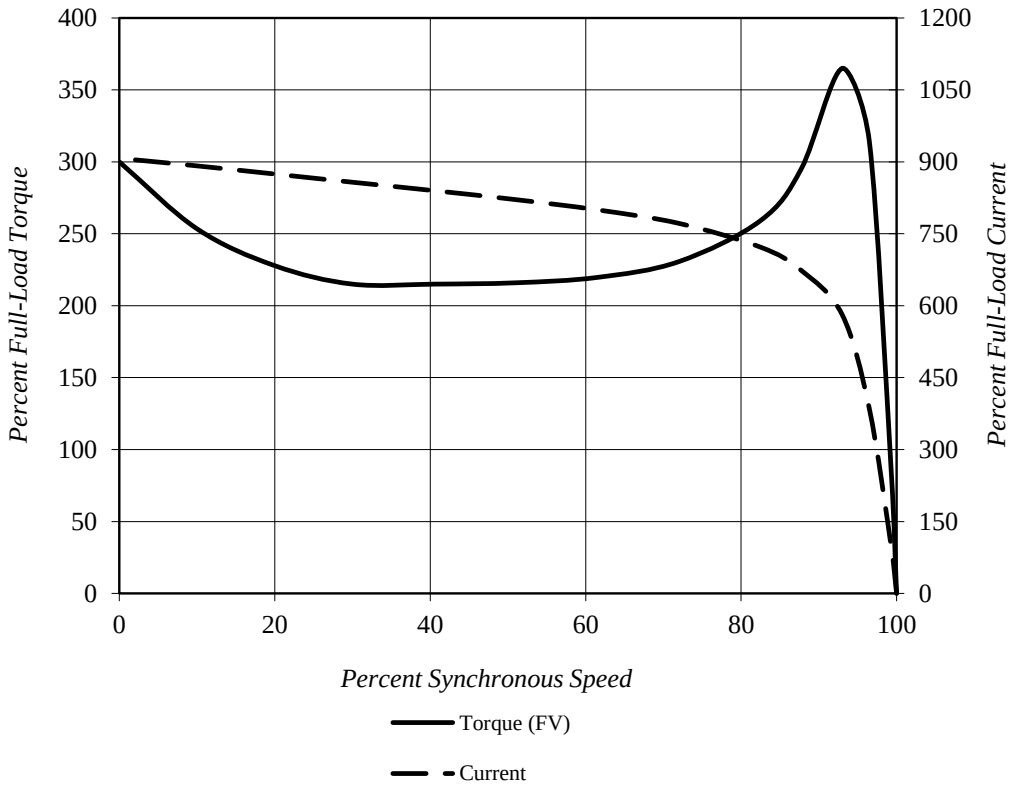
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			***FLAmps:***	68
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2965	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)

Locked Rotor Amps:	617 A	***Load Type:***	N/A
Locked Rotor Torque:	300%	***Starting at:***	N/A
Breakdown Torque:	365%	***Accel. Time:***	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

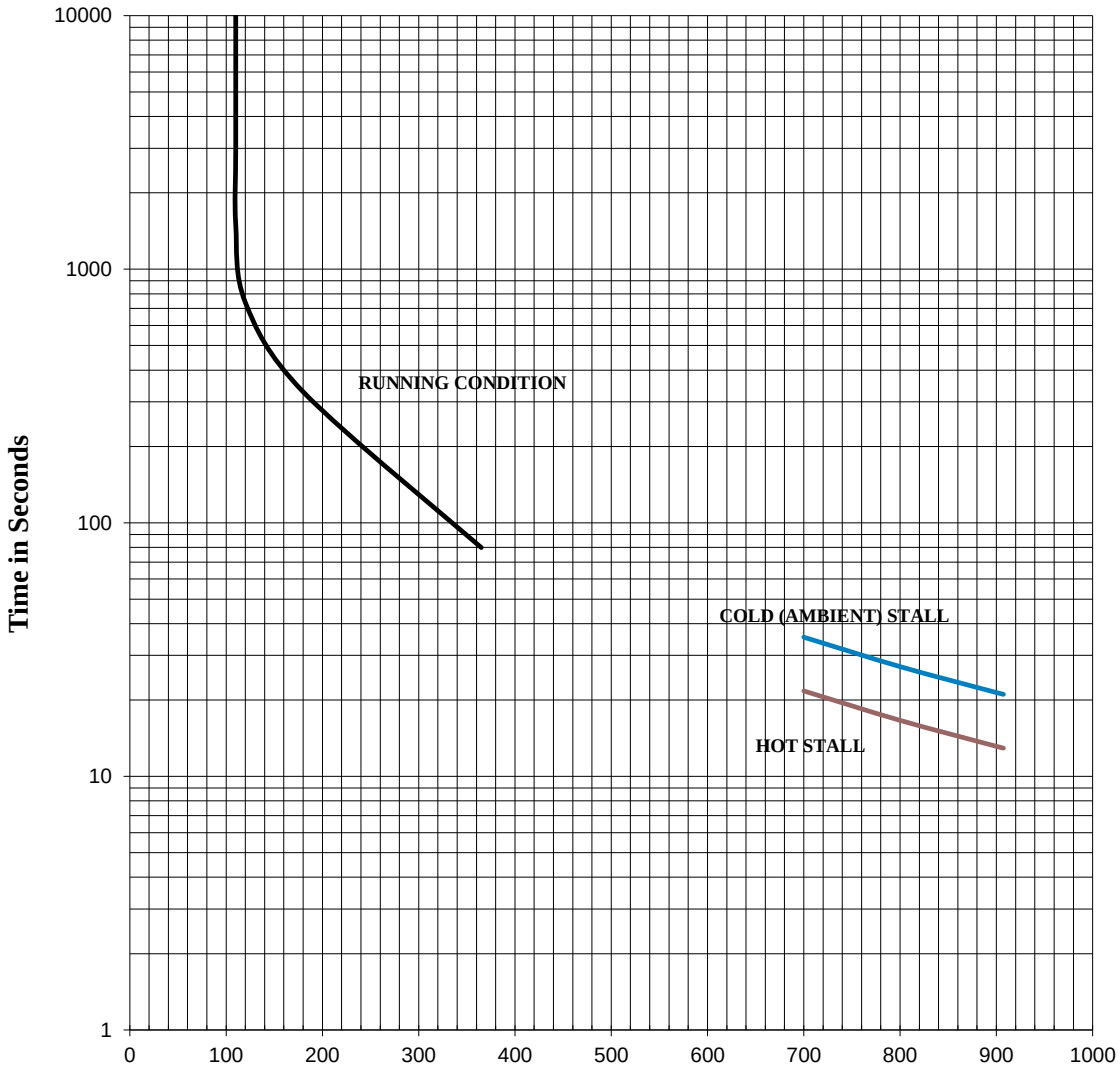
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			***FLAmps:***	68
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	37	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	2965	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)



Comments: PROJECT - ***D.E.Curve #:*** GH2037 (37kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR
PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	50	VOLTS:	460	3 PH /	60 Hz	S. RPM:	3600
FRAME:	200L	ENCL:	TEFC	FLAMPS:	58	FLRPM:	3570
FORM:	FCK1	S.F.:	1.15	NEMA DESIGN:	A	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	M	DUTY:	Cont.
MODEL No.:	0372SDMW7FS-P			kW:	37		
NOM. EFF.:	93.0	MIN. EFF.:	-	P.F.:	84.0		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	630	FULL LOAD (lb-ft.):	73	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	340	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	430		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	95.2	FULL LOAD:	84.1
3/4 LOAD:	93.9	3/4 LOAD:	79.7
1/2 LOAD:	91.0	1/2 LOAD:	70.3

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: 1/14/2020

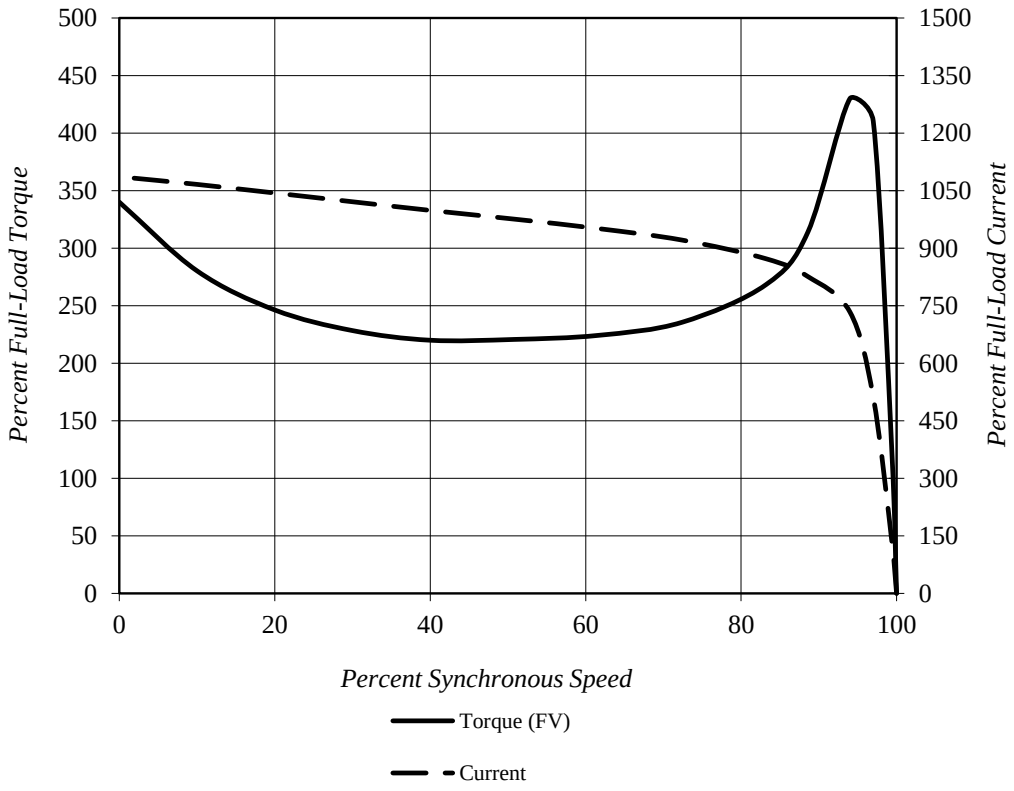
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0372SDMW7FS-P			***FLAmps:***	58
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	50	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	3570	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)

Locked Rotor Amps:	630 A	***Load Type:***	N/A
Locked Rotor Torque:	340%	***Starting at:***	N/A
Breakdown Torque:	430%	***Accel. Time:***	N/A
Rated Torque:	73 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

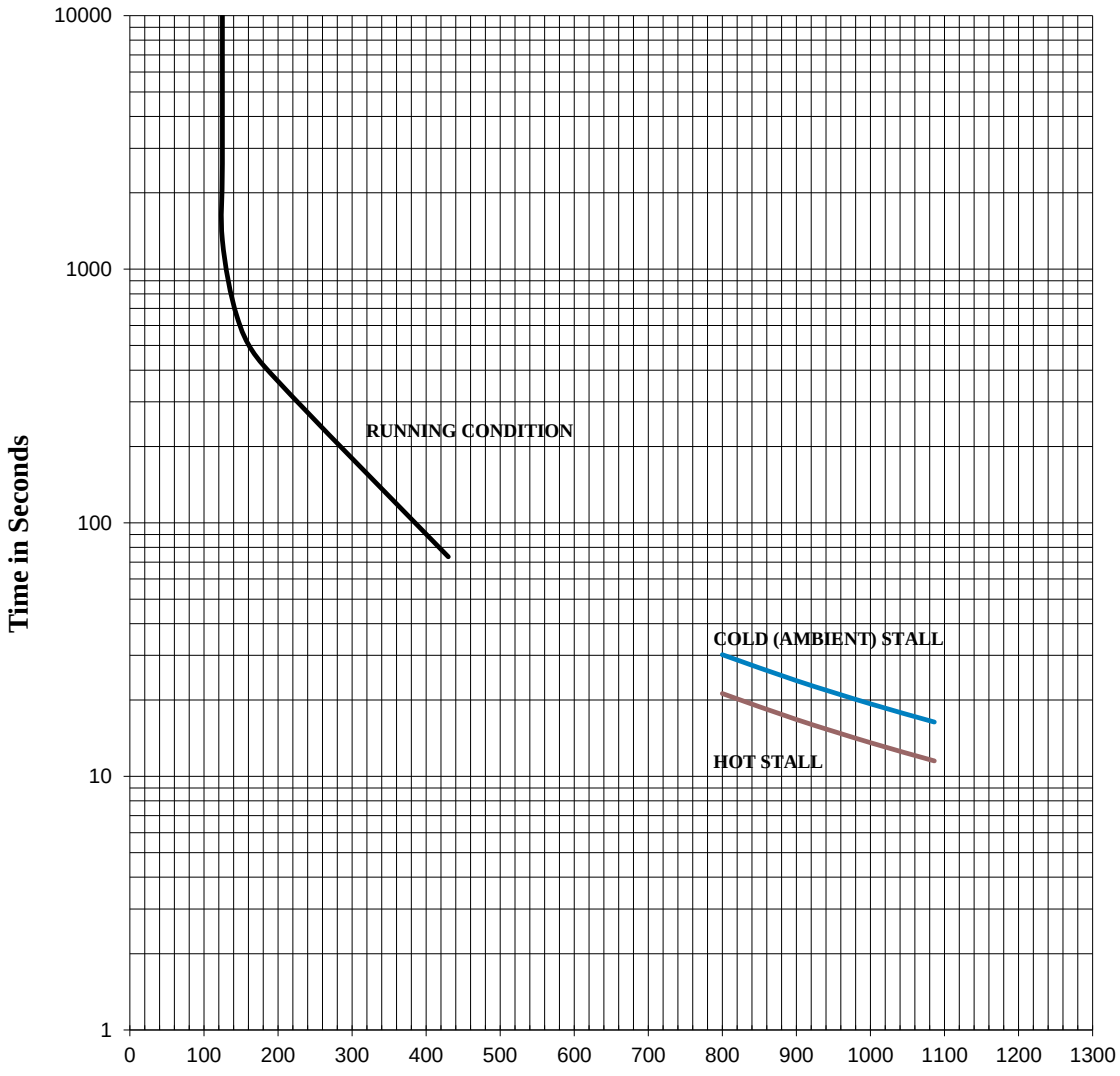
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0372SDMW7FS-P			***FLAmps:***	58
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	200L
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	50	***Rotor Inertia:***	7.9 lb-ft²	***Date:***	1/14/2020
FLRPM:	3570	***Load Inertia:***	N/A	***File:***	GH2037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH2037 (37kW)

Prepared by: Zichao Xie	***Checked by:***