

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 OL DRAWING IEC GLOBAL	TYPE: 2-4-6P - 400V	TOLERANCES X. ±2.0 X.X ±0.5 X.XX ±0.1					
	FRAME: 132S						
3HFN000154		MAXIMUM MOTOR WEIGHT					DRAWN BY: HIEN. NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/ind
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		- lbs. - kgs.	01 Adding tolerance dimension "H"	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: 1000
FRAME: 132S	ENCL: TEFC	FLAMPS: 11.5/6.6	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0036SDMV7FS-PL		kW: 3	
NOM. EFF.: 85.6	MIN. EFF.: -	cosØ 0.73	

AMPERAGE

LOCKED ROTOR: 83/48

TORQUES

FULL LOAD (lb-ft.): 22
LOCKED ROTOR (%): 295
BREAK DOWN (%): 415

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 89.1
3/4 LOAD: 88.9
1/2 LOAD: 86.9

POWER FACTOR

FULL LOAD: 73.3
3/4 LOAD: 67.2
1/2 LOAD: 55.8

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: 8/6/2020

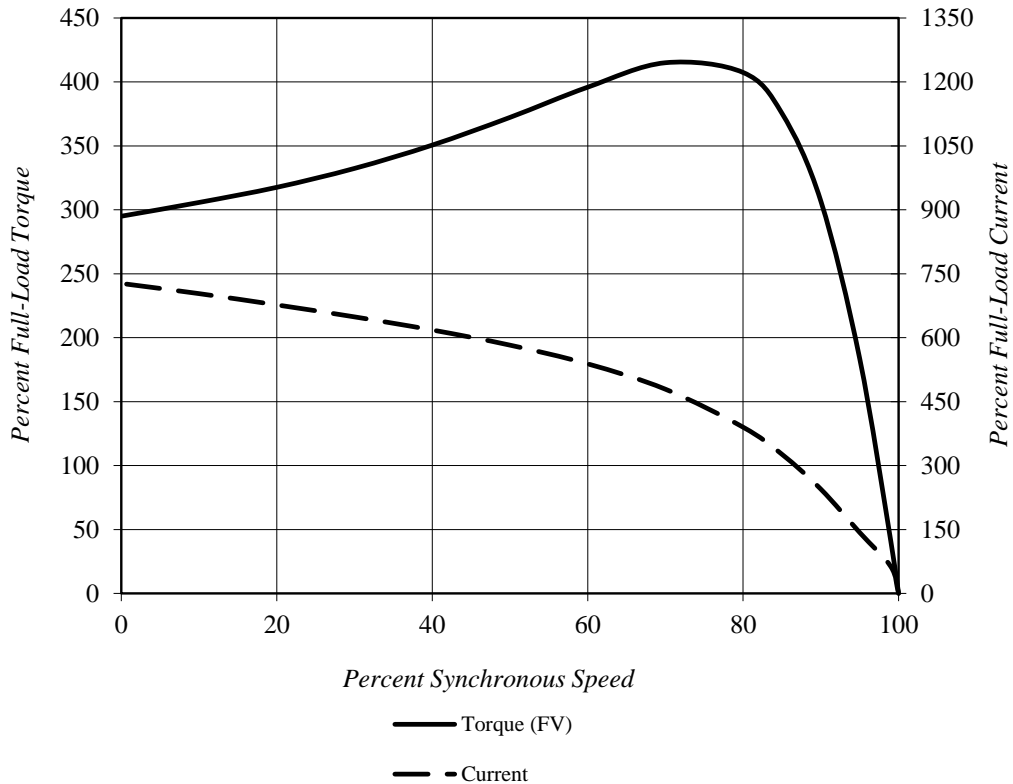
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0036SDMV7FS-PL			FLAmps:	11.5/6.6
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6003 (3kW)

Locked Rotor Amps:	83/48 A	Load Type:	N/A
Locked Rotor Torque:	295%	Starting at:	N/A
Breakdown Torque:	415%	Accel. Time:	N/A
Rated Torque:	22 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6003 (3kW)

Prepared by: Zichao Xie

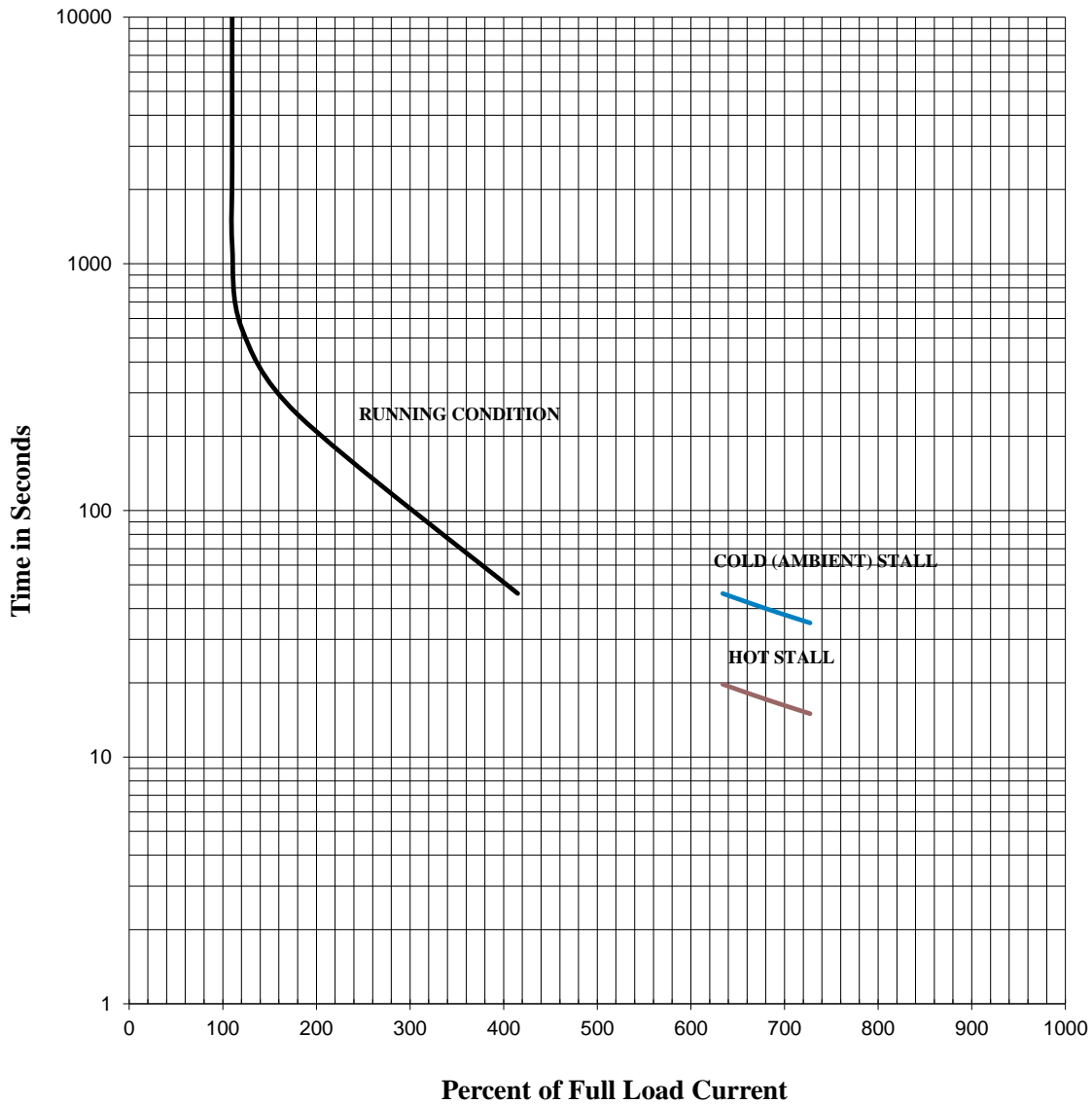
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0036SDMV7FS-PL			FLAmps:	11.5/6.6
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6003 (3kW)



Comments: PROJECT - _____

D.E. Curve #: GH6003 (3kW)

Prepared by: Zichao Xie

Checked by:

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

SQUIRREL CAGE INDUCTION MOTOR
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MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 132S	ENCL: TEFC	FLAMPS: 11.1/6.4	FLRPM: 975
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0036SDMV7FS-PL		kW: 3	
NOM. EFF.: 85.6	MIN. EFF.: -	cosØ 0.73	

AMPERAGE

LOCKED ROTOR: 87/50

TORQUES

FULL LOAD (lb-ft.): 22
LOCKED ROTOR (%): 325
BREAK DOWN (%): 440

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 89.6
3/4 LOAD: 89.2
1/2 LOAD: 86.8

POWER FACTOR

FULL LOAD: 73.0
3/4 LOAD: 66.2
1/2 LOAD: 54.3

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: 8/6/2020

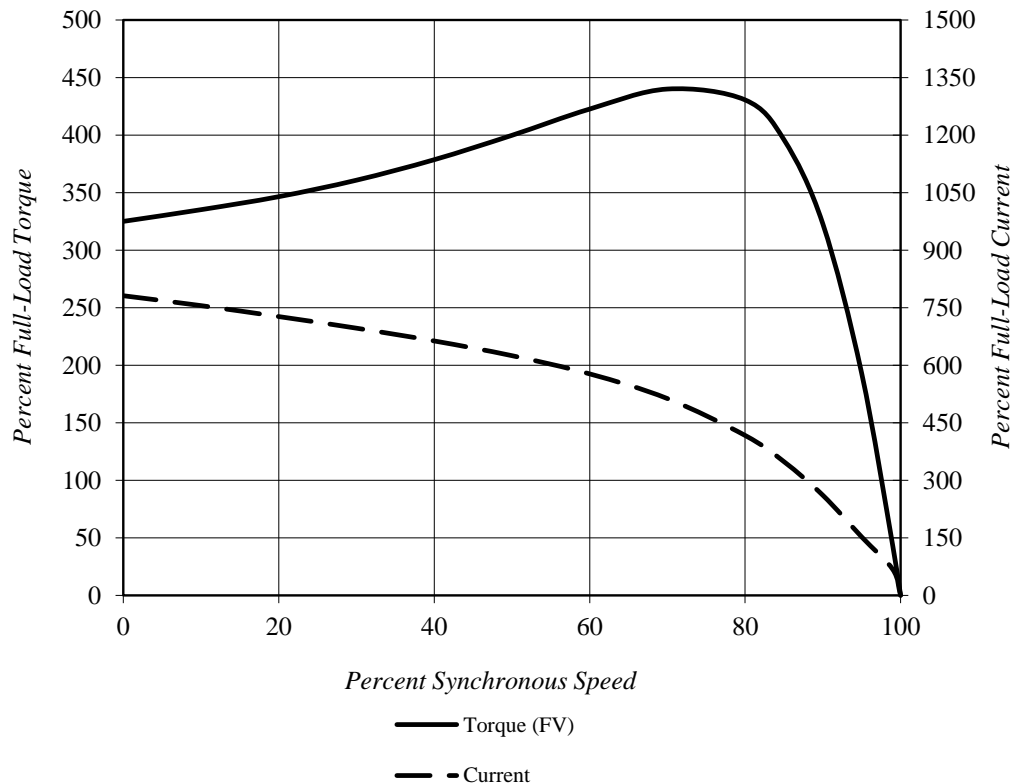
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0036SDMV7FS-PL			FLAmps:	11.1/6.4
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6003 (3kW)

Locked Rotor Amps:	87/50 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	440%	Accel. Time:	N/A
Rated Torque:	22 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6003 (3kW)

Prepared by: Zichao Xie

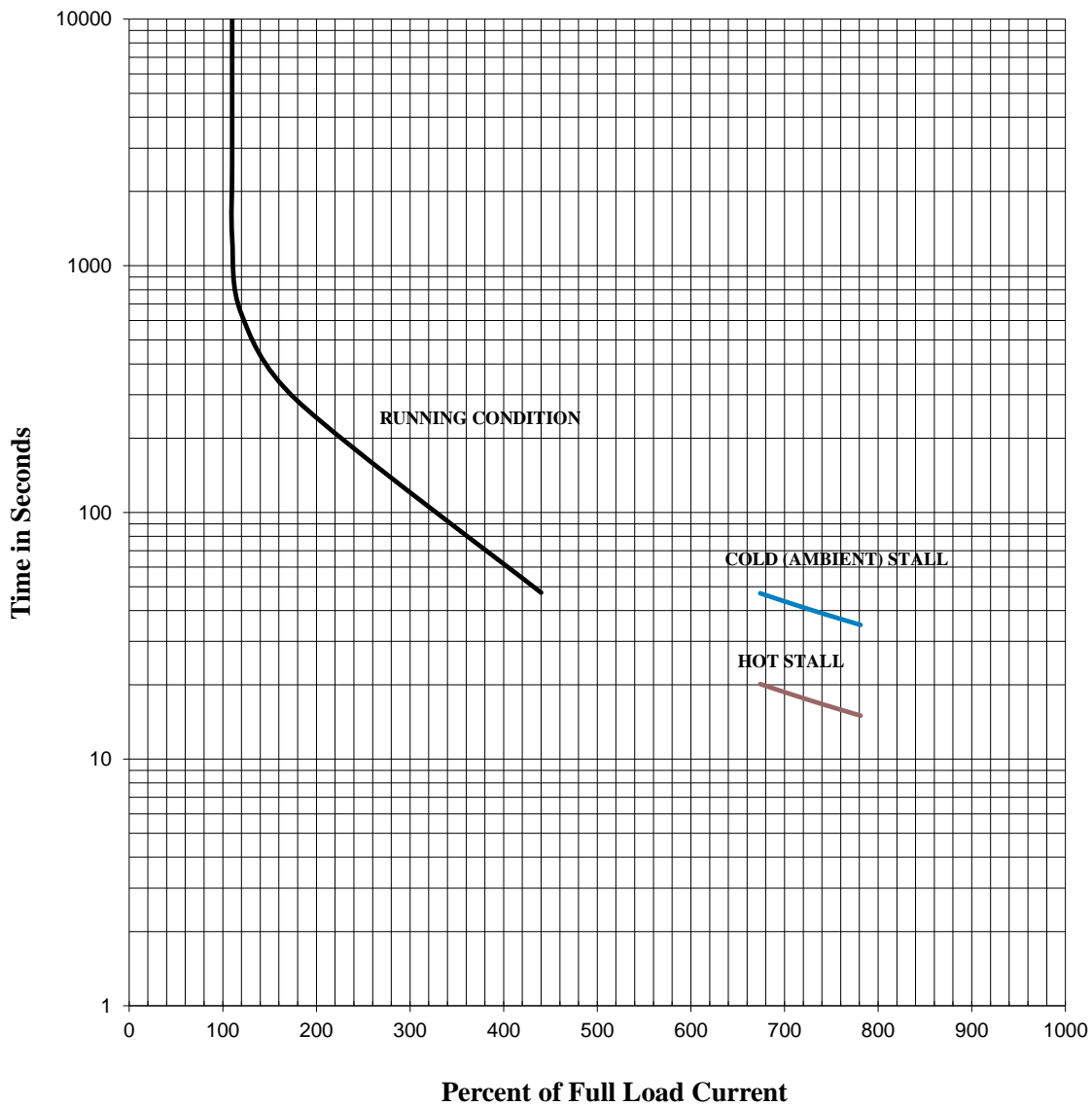
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0036SDMV7FS-PL			FLAmps:	11.1/6.4
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6003 (3kW)



Comments: PROJECT _____

D.E. Curve #: GH6003 (3kW)

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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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 132S	ENCL: TEFC	FLAMPS: 11.6/6.7	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0036SDMV7FS-PL		kW: 3	
NOM. EFF.: 85.6	MIN. EFF.: -	cosØ 0.76	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 78/45	FULL LOAD (lb-ft.): 22	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 260	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 375	

EFFICIENCY	POWER FACTOR
FULL LOAD: 88.8	FULL LOAD: 76.2
3/4 LOAD: 89.0	3/4 LOAD: 70.8
1/2 LOAD: 87.5	1/2 LOAD: 60.1

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).

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DATE: 8/6/2020

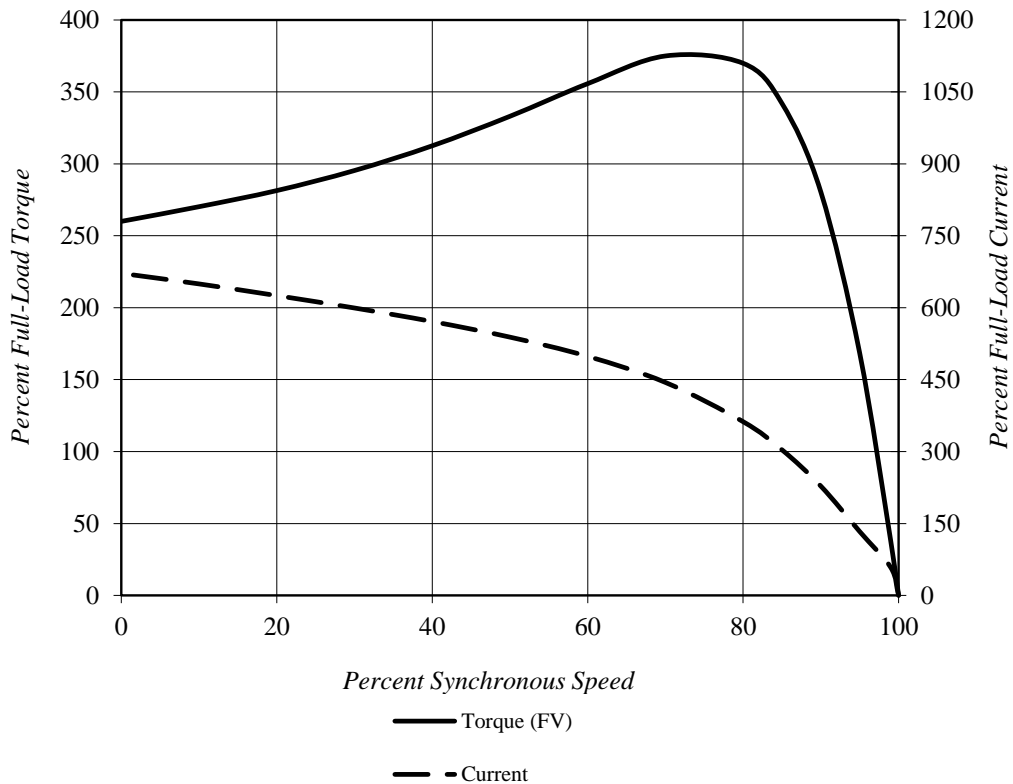
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0036SDMV7FS-PL			FLAmps:	11.6/6.7
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6003 (3kW)

Locked Rotor Amps:	78/45 A	Load Type:	N/A
Locked Rotor Torque:	260%	Starting at:	N/A
Breakdown Torque:	375%	Accel. Time:	N/A
Rated Torque:	22 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6003 (3kW)

Prepared by: Zichao Xie

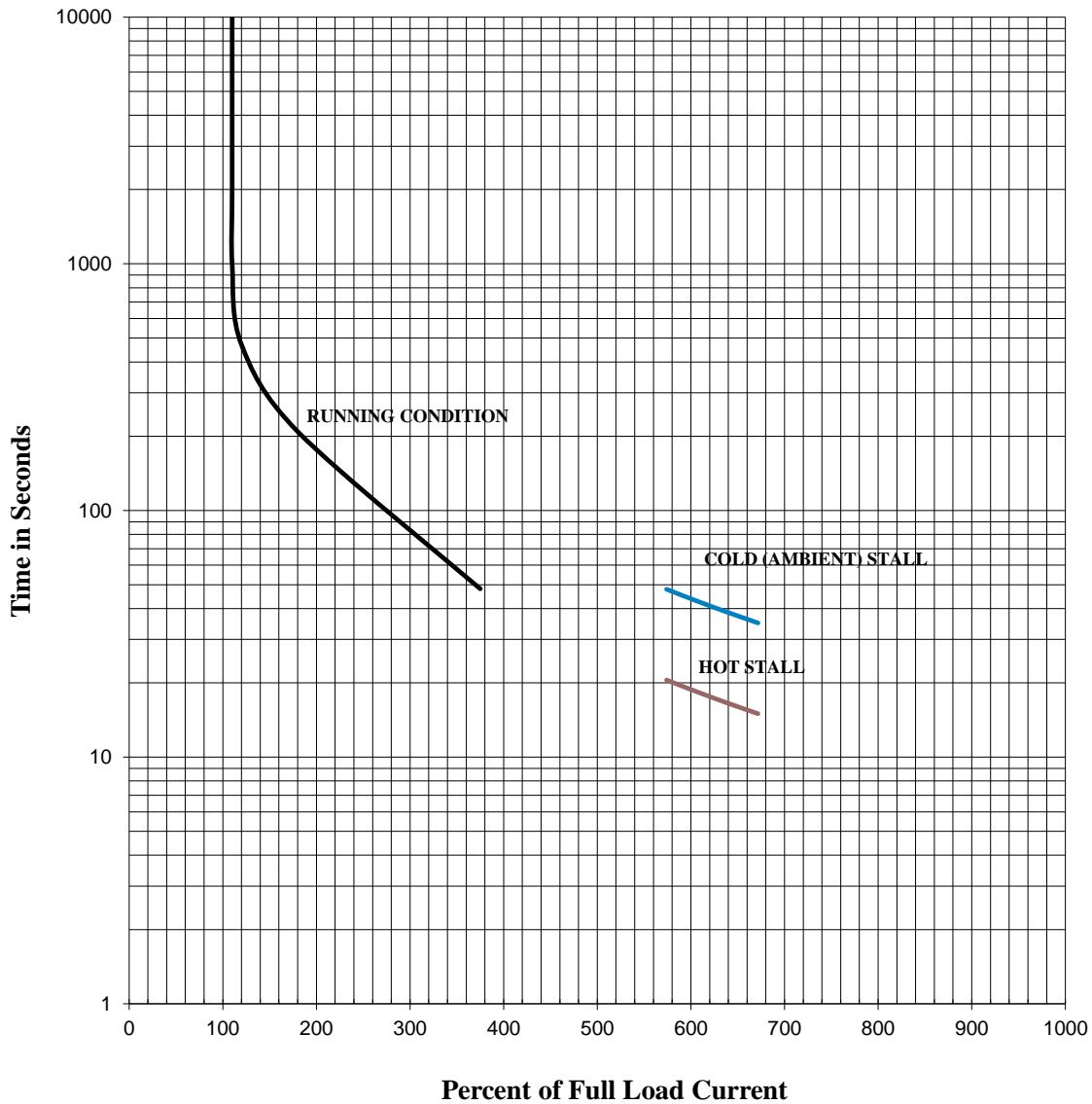
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0036SDMV7FS-PL			FLAmps:	11.6/6.7
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	3	Rotor Inertia:	1.2 lb-ft ²	Date:	8/6/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6003 (3kW)



Comments: PROJECT -

D.E. Curve #: GH6003 (3kW)

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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.: 4	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 132S	ENCL: TEFC	FLAMPS: 5.9	FLRPM: 1175
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0036SDMV7FS-PL		kW: 3	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 71.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 49	FULL LOAD (lb-ft.): 17.8	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 330	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 450	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.3	FULL LOAD: 71.2
3/4 LOAD: 89.5	3/4 LOAD: 64.5
1/2 LOAD: 86.9	1/2 LOAD: 52.7

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.
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DATE: 7/22/2020

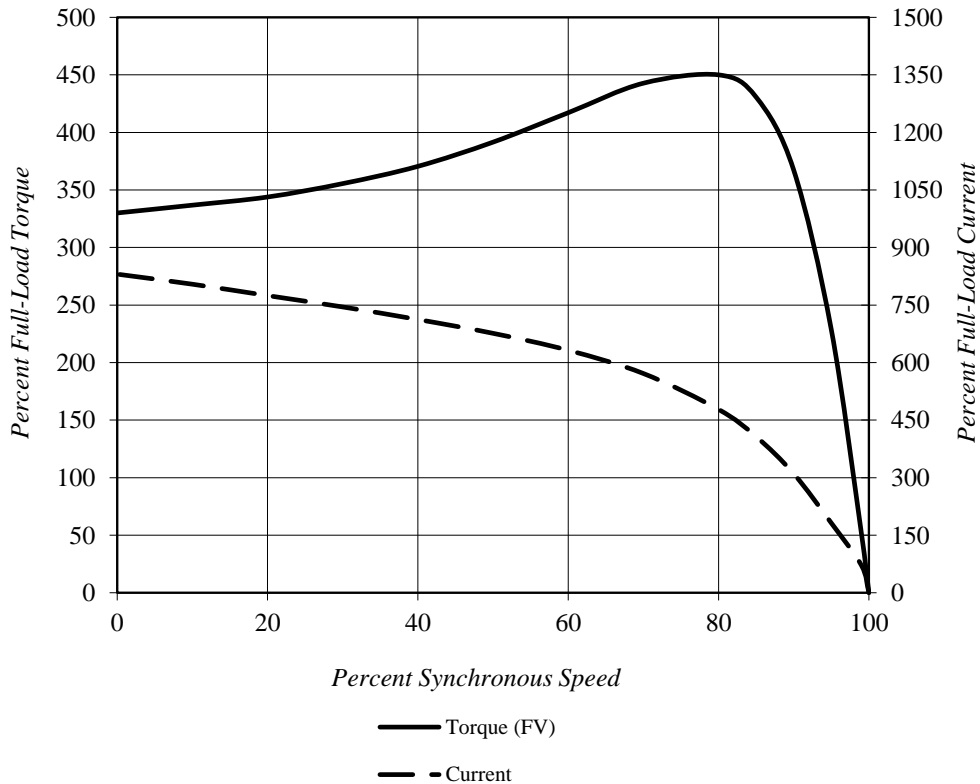
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0036SDMV7FS-PL			FLAmps:	5.9
Enclosure:	TEFC	Voltage:	460 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	4	Rotor Inertia:	1.2 lb-ft ²	Date:	7/22/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6003 (3kW)

Locked Rotor Amps:	49 A	Load Type:	N/A
Locked Rotor Torque:	330%	Starting at:	N/A
Breakdown Torque:	450%	Accel. Time:	N/A
Rated Torque:	17.8 lb-ft		

Design Values



Comments: PROJECT -

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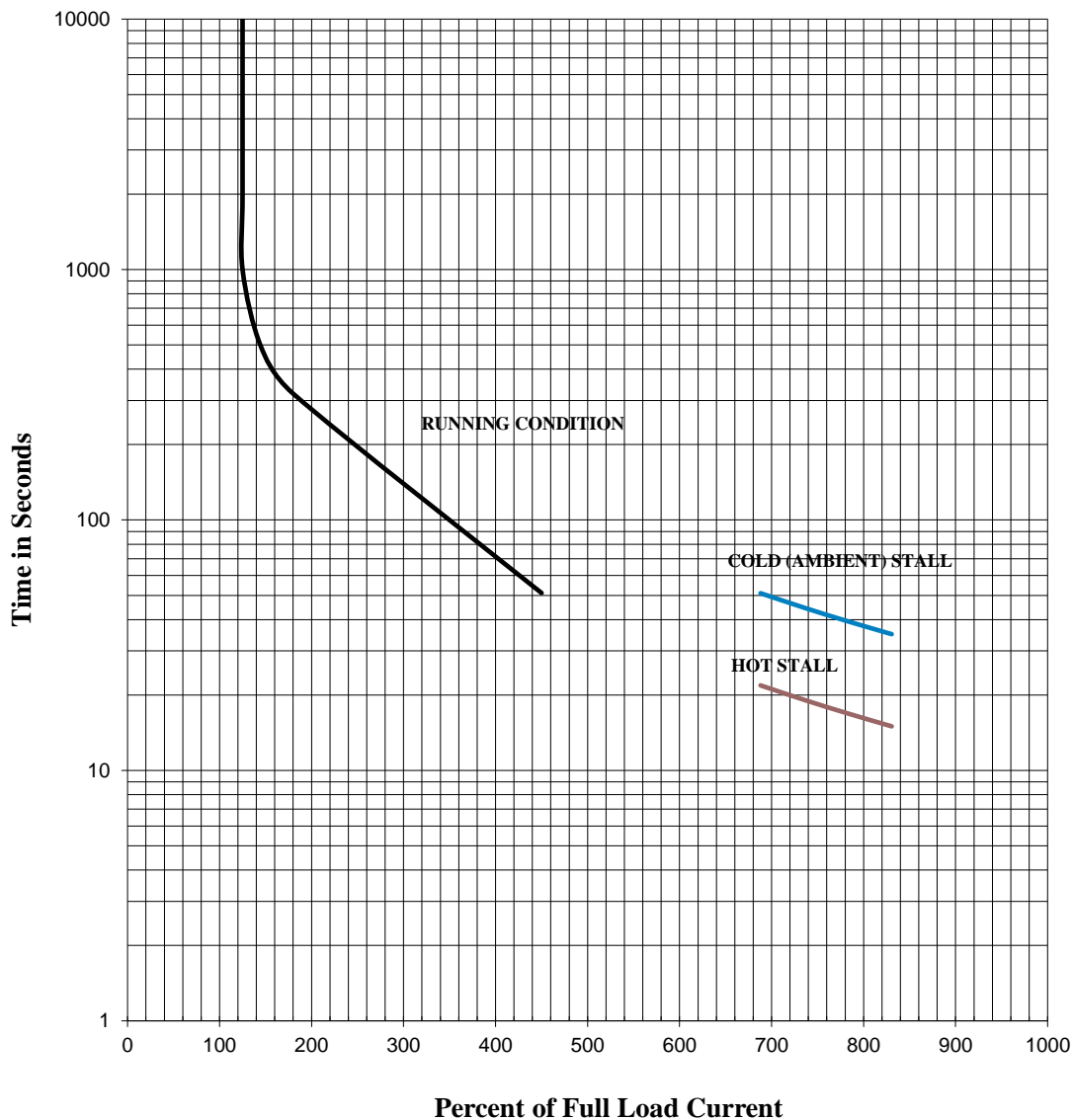
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0036SDMV7FS-PL			FLAmps:	5.9
Enclosure:	TEFC	Voltage:	460 V	Frame:	132S
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	4	Rotor Inertia:	1.2 lb-ft ²	Date:	7/22/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6003 (3kW)



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D.E. Curve #: GH6003 (3kW)

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