

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

3HFN000318

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TYPE: 2-4-6P - 400V
FRAME: 132M

TOLERANCES		MAXIMUM MOTOR WEIGHT	
X.	± 2.0	- lbs.	
X.X	± 0.5	- kgs.	
X.XX	± 0.1		
01	Change to the KEY length dimension	T.Danh	Sep-10-18
NO	REVISION	DRAWN BY	DATE
		B.Quynh	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: 132M	ENCL: TEFC	FLAMPS: 15.1/8.7	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7KS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 111/64	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 325	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 400	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.2	FULL LOAD: 74.2
3/4 LOAD: 89.3	3/4 LOAD: 68.7
1/2 LOAD: 87.7	1/2 LOAD: 57.9

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINWAVE 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: 9/10/2020

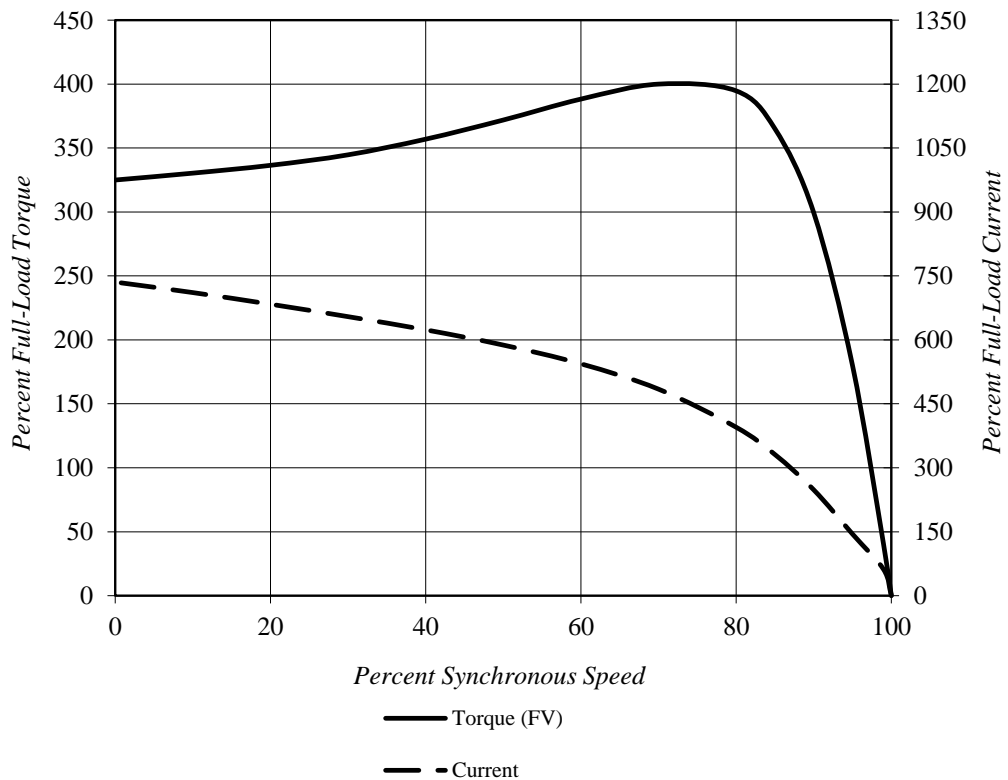
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0046SDMV7KS-PL			FLAmps:	15.1/8.7
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6004 (4kW)

Locked Rotor Amps:	111/64 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	400%	Accel. Time:	N/A
Rated Torque:	29 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6004 (4kW)

Prepared by: Zichao Xie

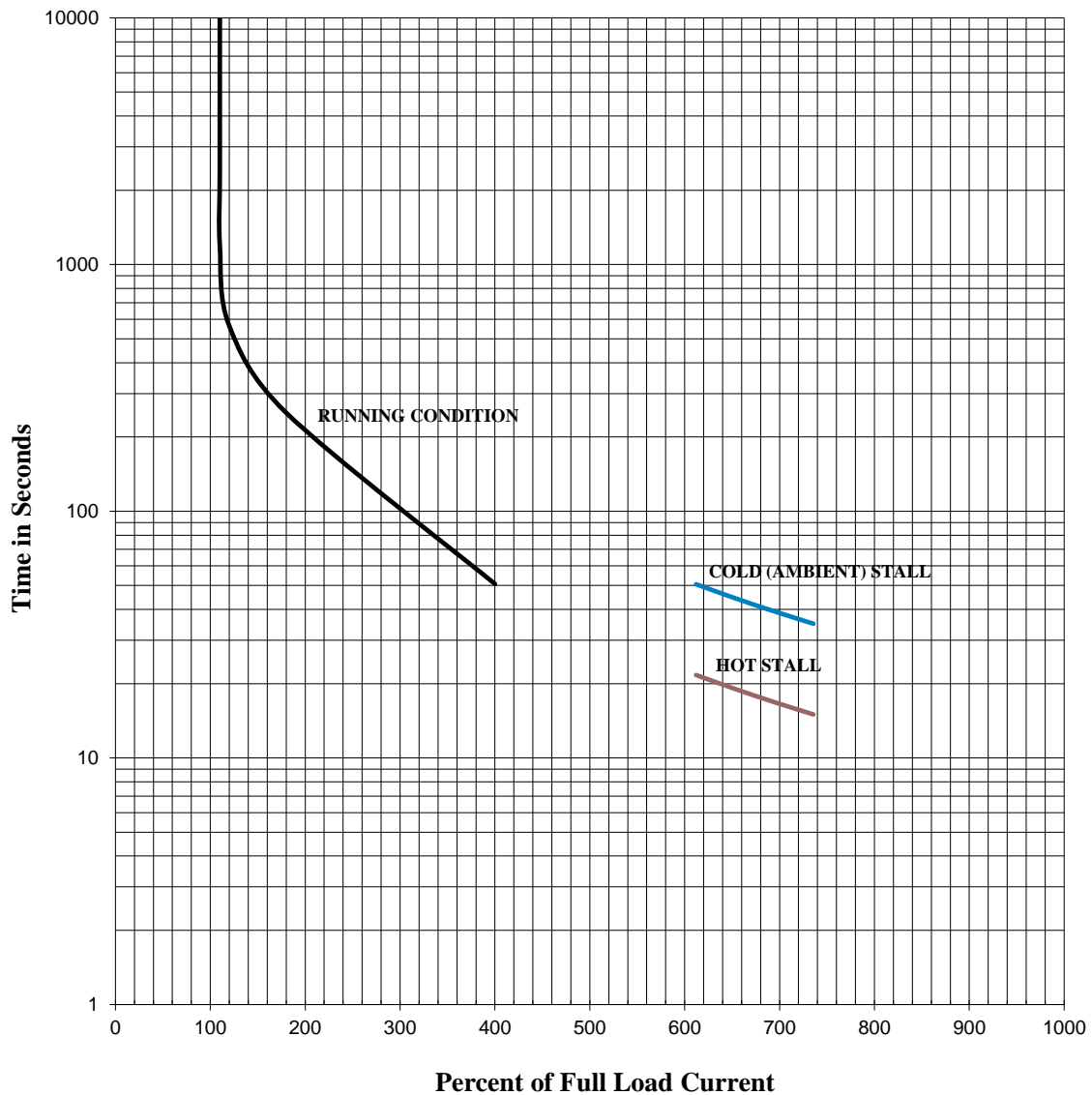
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0046SDMV7KS-PL			FLAmps:	15.1/8.7
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6004 (4kW)



Comments: PROJECT _____

D.E. Curve #: GH6004 (4kW)

Prepared by: Zichao Xie

Checked by:

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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 132M	ENCL: TEFC	FLAMPS: 14.5/8.4	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7KS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 114/66	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 425	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.6	FULL LOAD: 74.4
3/4 LOAD: 89.4	3/4 LOAD: 68.2
1/2 LOAD: 87.5	1/2 LOAD: 56.7

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).

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DATE: 9/10/2020

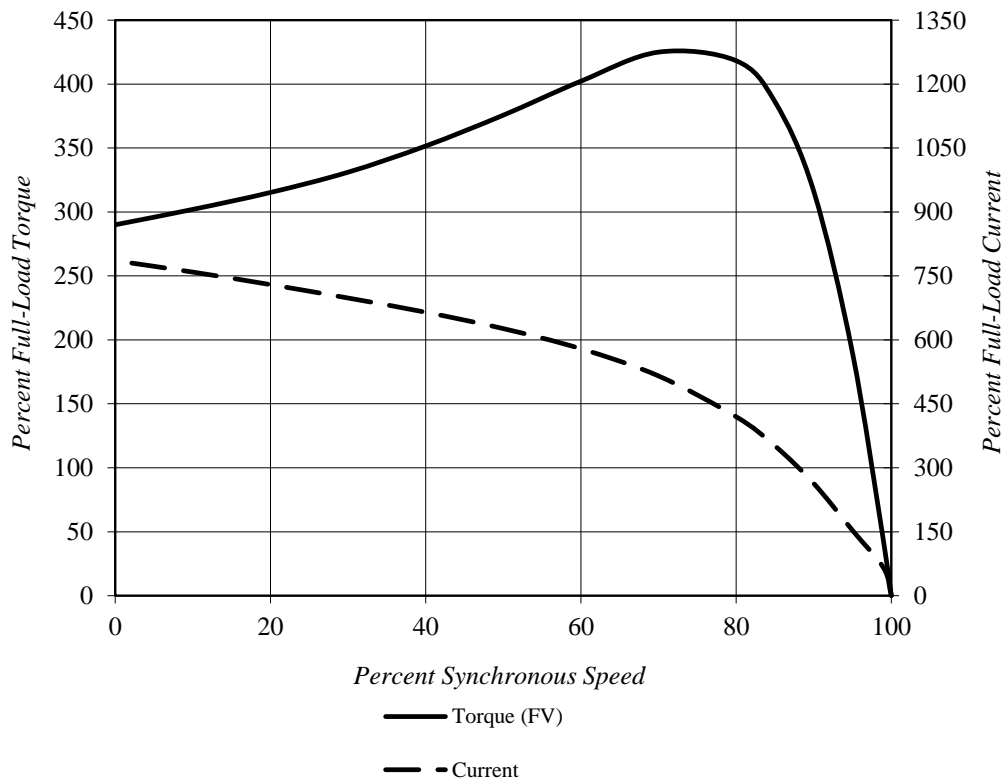
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0046SDMV7KS-PL			FLAmps:	14.5/8.4
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6004 (4kW)

Locked Rotor Amps:	114/66 A	Load Type:	N/A
Locked Rotor Torque:	290%	Starting at:	N/A
Breakdown Torque:	425%	Accel. Time:	N/A
Rated Torque:	29 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6004 (4kW)

Prepared by: Zichao Xie

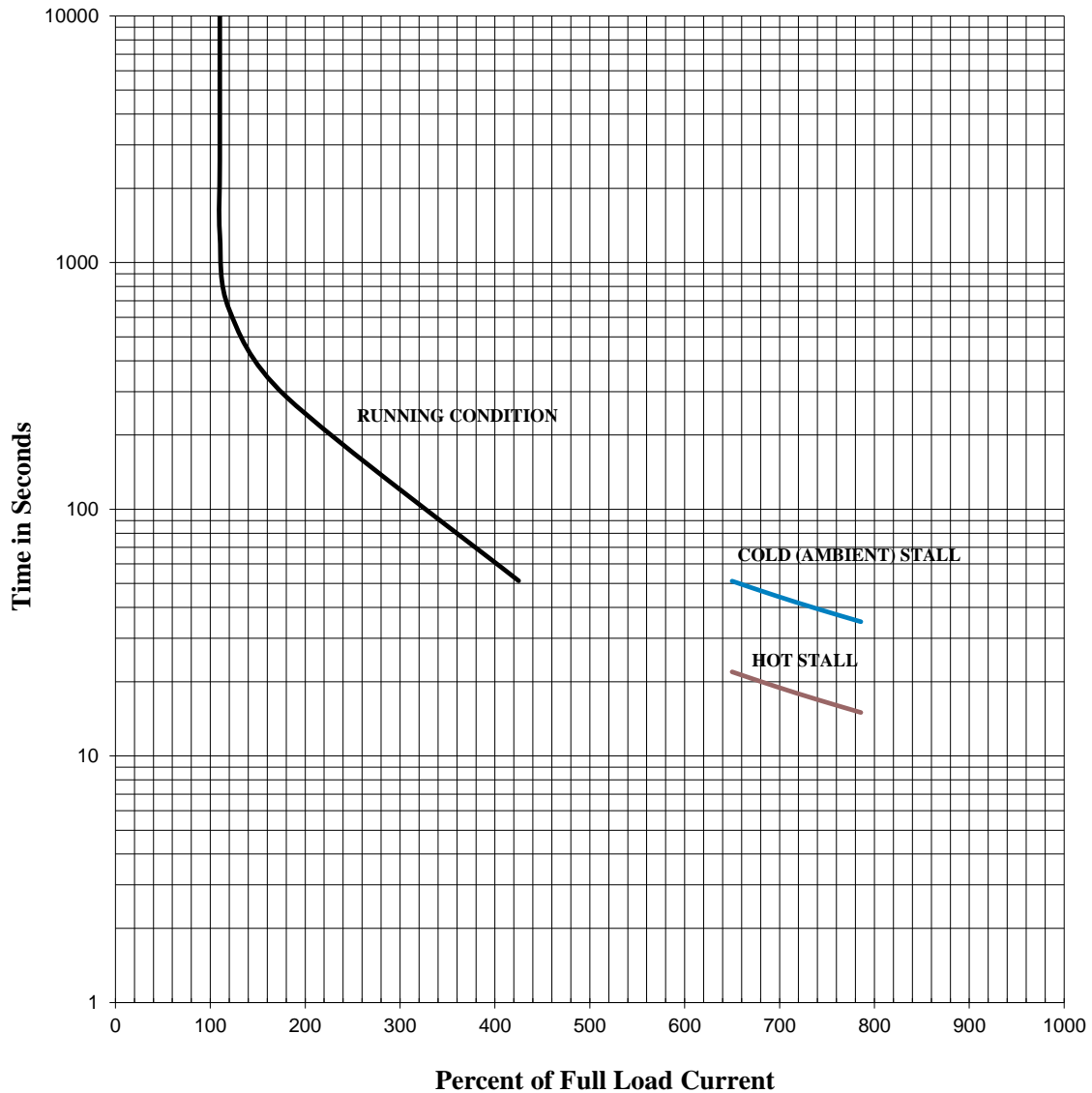
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0046SDMV7KS-PL			FLAmps:	14.5/8.4
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6004 (4kW)



Comments: PROJECT -

D.E. Curve #: GH6004 (4kW)

Prepared by: Zichao Xie

Checked by:

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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: 132M	ENCL: TEFC	FLAMPS: 15.4/8.9	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0046SDMV7KS-PL		kW: 4	
NOM. EFF.: 86.8	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 102/59	FULL LOAD (lb-ft.): 29	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 230	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 360	

EFFICIENCY	POWER FACTOR
FULL LOAD: 88.6	FULL LOAD: 77.0
3/4 LOAD: 89.1	3/4 LOAD: 72.2
1/2 LOAD: 88.0	1/2 LOAD: 62.1

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: 9/10/2020

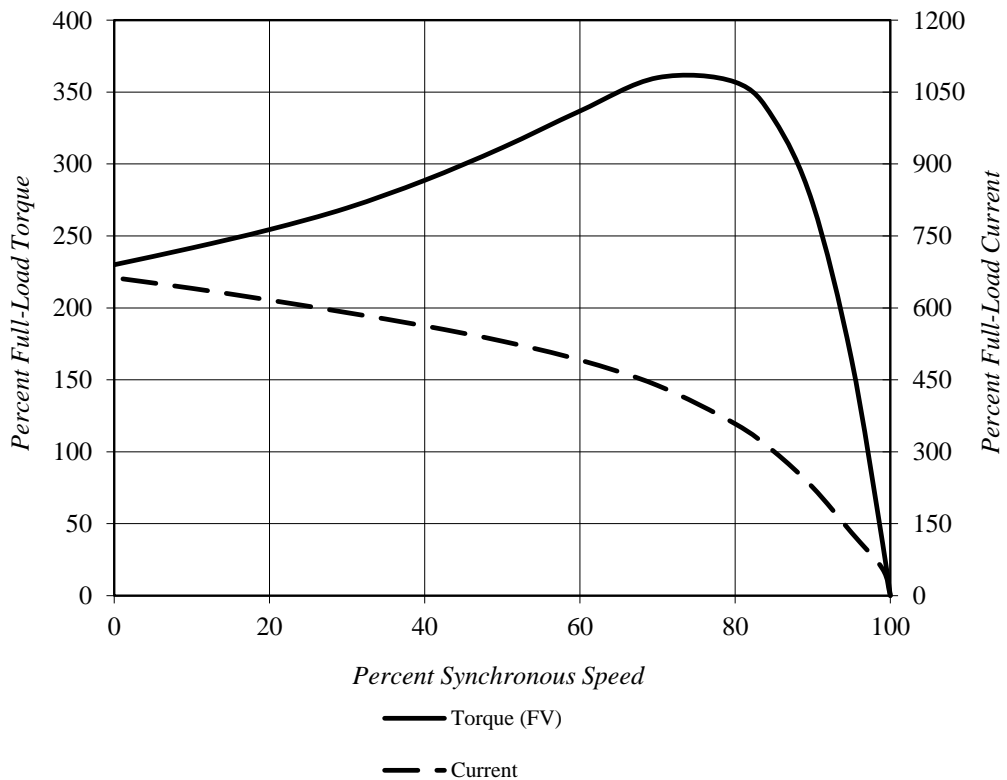
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0046SDMV7KS-PL			FLAmps:	15.4/8.9
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6004 (4kW)

Locked Rotor Amps:	102/59 A	Load Type:	N/A
Locked Rotor Torque:	230%	Starting at:	N/A
Breakdown Torque:	360%	Accel. Time:	N/A
Rated Torque:	29 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6004 (4kW)

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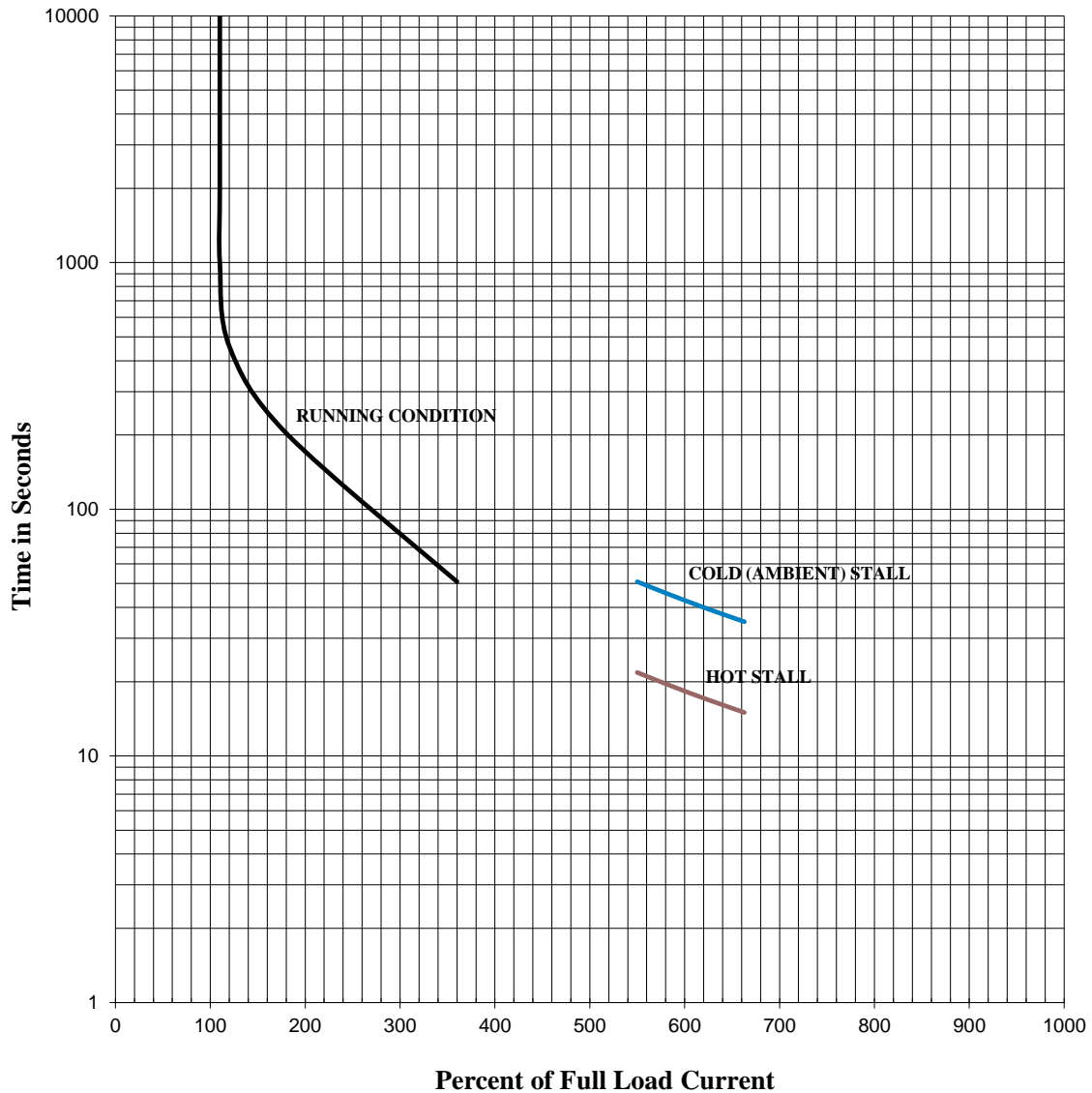
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0046SDMV7KS-PL			FLAmps:	15.4/8.9
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6004 (4kW)



Comments: PROJECT -

D.E. Curve #: GH6004 (4kW)

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	REVISION	2
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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 5.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 132M	ENCL: TEFC	FLAMPS: 7.9	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.: 0046SDMV7KS-PL		KW: 4	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 72.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 63	FULL LOAD (lb-ft.): 25	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 300	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 425	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.4	FULL LOAD: 72.4
3/4 LOAD: 90.0	3/4 LOAD: 66.4
1/2 LOAD: 87.8	1/2 LOAD: 55.3

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.
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DATE: 9/10/2020

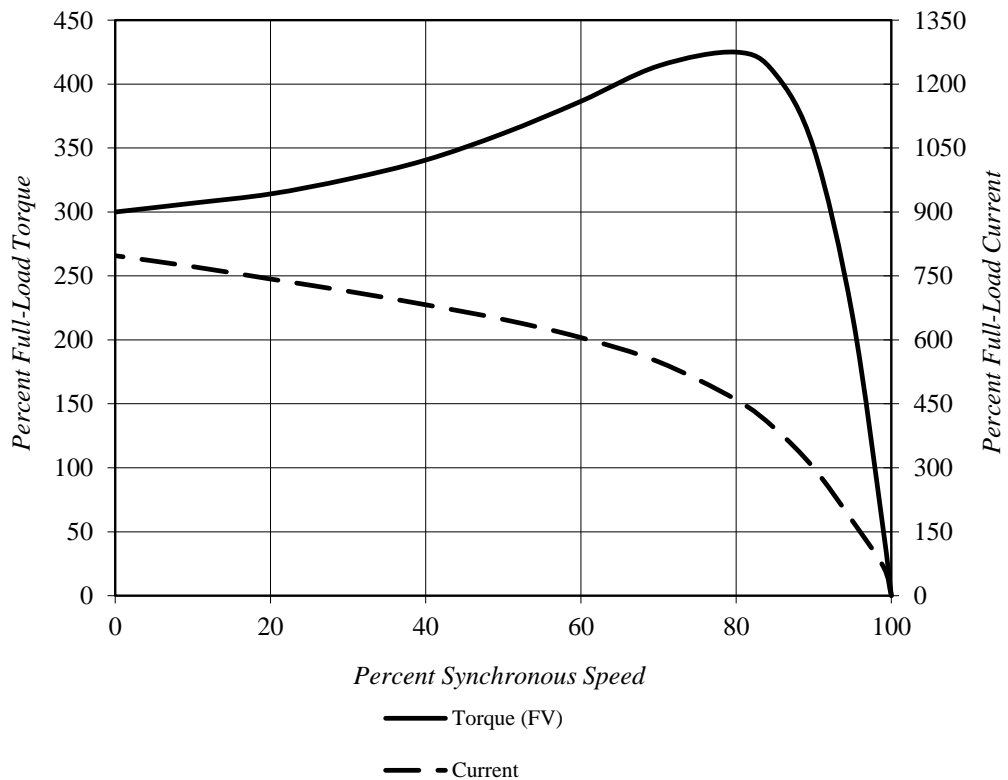
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0046SDMV7KS-PL			FLAmps:	7.9
Enclosure:	TEFC	Voltage:	460 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	5.5	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6004 (4kW)

Locked Rotor Amps:	63 A	Load Type:	N/A
Locked Rotor Torque:	300%	Starting at:	N/A
Breakdown Torque:	425%	Accel. Time:	N/A
Rated Torque:	25 lb-ft		

Design Values



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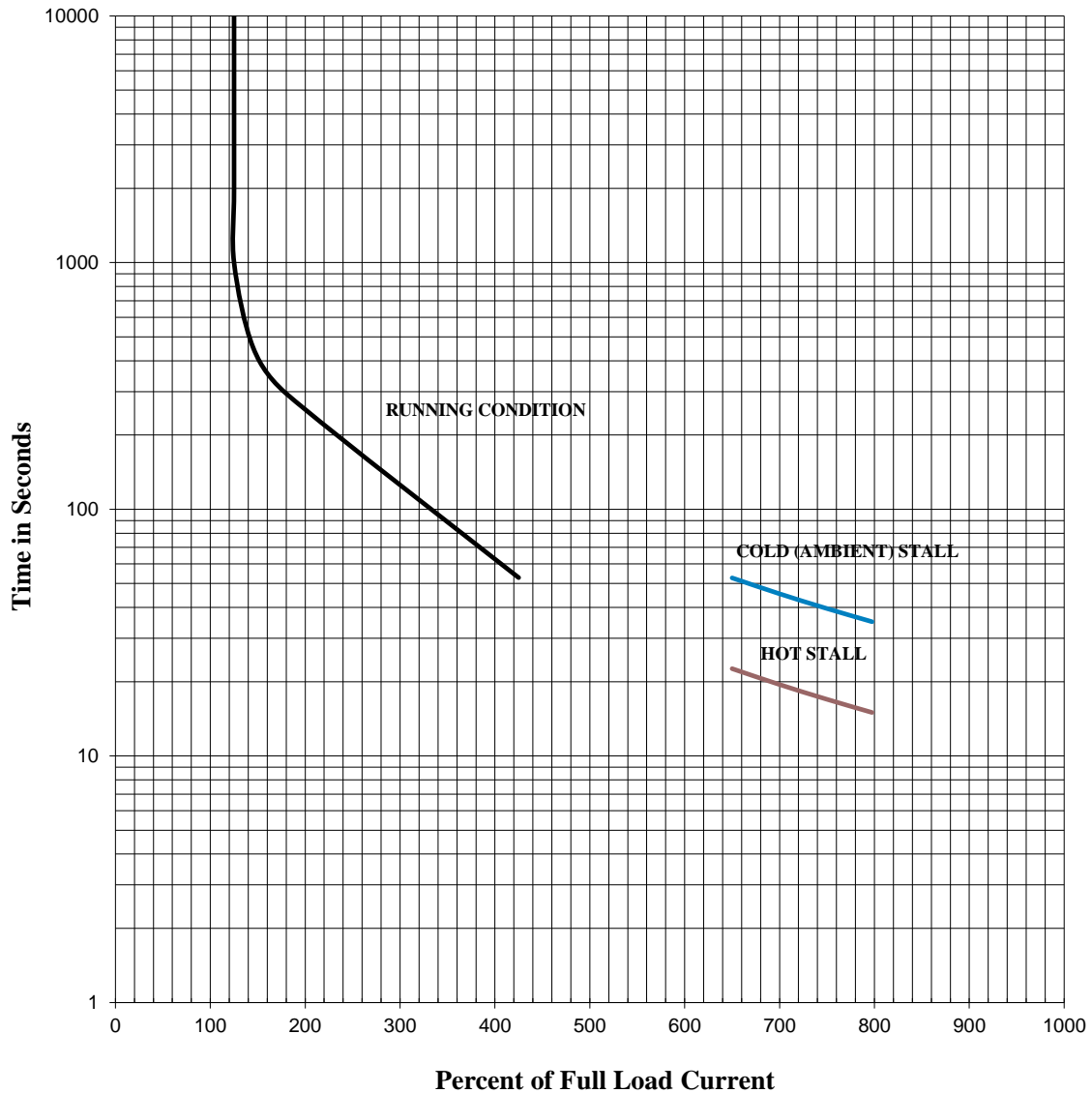
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0046SDMV7KS-PL			FLAmps:	7.9
Enclosure:	TEFC	Voltage:	460 V	Frame:	132M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	5.5	Rotor Inertia:	1.4 lb-ft ²	Date:	9/10/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6004 (4kW)



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D.E.Curve #: GH6004 (4kW)

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