

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.

B5-FLANGE MOTOR OL DRAWING IEC GLOBAL	TYPE: 4-6P - 400V
	FRAME: 225S
3HFN000250	
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION	

TOLERANCES				
X.	±2.0			
X.X	±0.5			
X.XX	±0.1			
MAXIMUM MOTOR WEIGHT				
-- lbs.				
-- kgs.				
REVISION				
02	Change to dimension KEY thickness	T.Danh	Sep-08-18	B.Quynh
01	Change to new design Frame footless	T.Danh	May-21-18	B.Quynh
NO				

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: 400	3 PH / 50 Hz	S. RPM: 1500
FRAME: 225S	ENCL: TEFC	FLAMPS: 82	FLRPM: 1480
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0454SDMW7JS-P		kW: 45	
NOM. EFF.: 94.2	MIN. EFF.: -	cosØ 0.83	

AMPERAGE

LOCKED ROTOR: 760

TORQUES

FULL LOAD (lb-ft.): 214
LOCKED ROTOR (%): 220
BREAK DOWN (%): 280

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 95.0
3/4 LOAD: 94.5
1/2 LOAD: 93.0

POWER FACTOR

FULL LOAD: 83.4
3/4 LOAD: 80.4
1/2 LOAD: 72.9

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: 10/21/2019

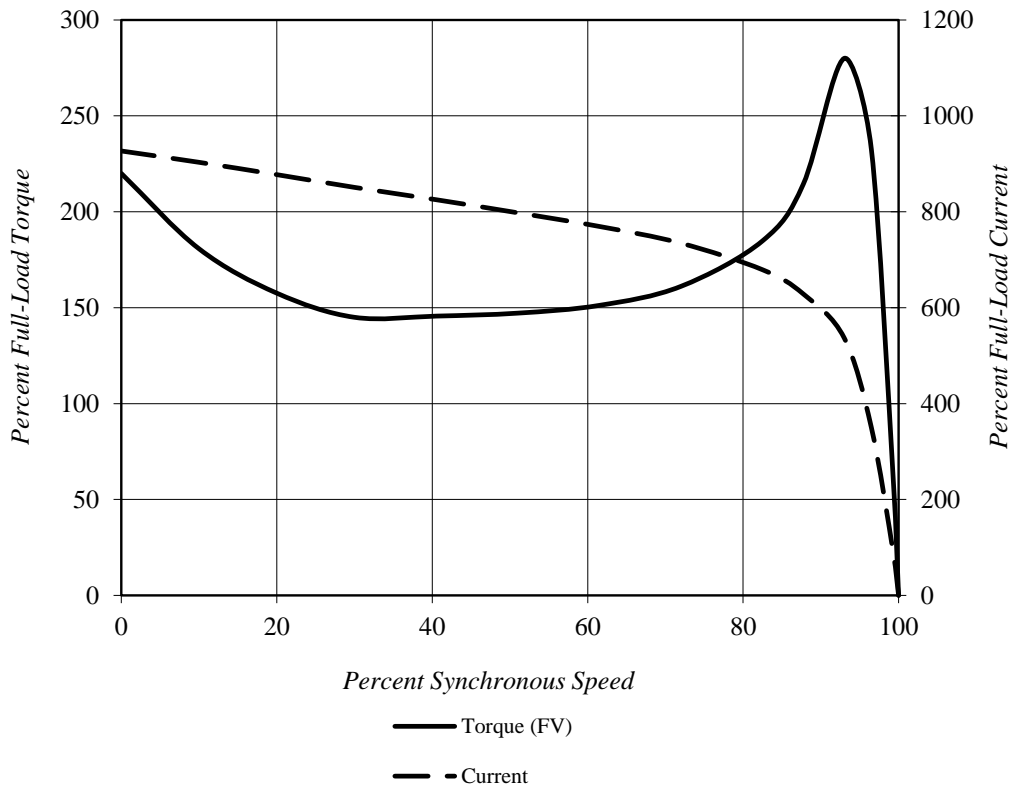
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0454SDMW7JS-P			FLAmps:	82
Enclosure:	TEFC	Voltage:	400 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)

Locked Rotor Amps:	760 A	Load Type:	N/A
Locked Rotor Torque:	220%	Starting at:	N/A
Breakdown Torque:	280%	Accel. Time:	N/A
Rated Torque:	214 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4045 (45kW)

Prepared by: Zichao Xie

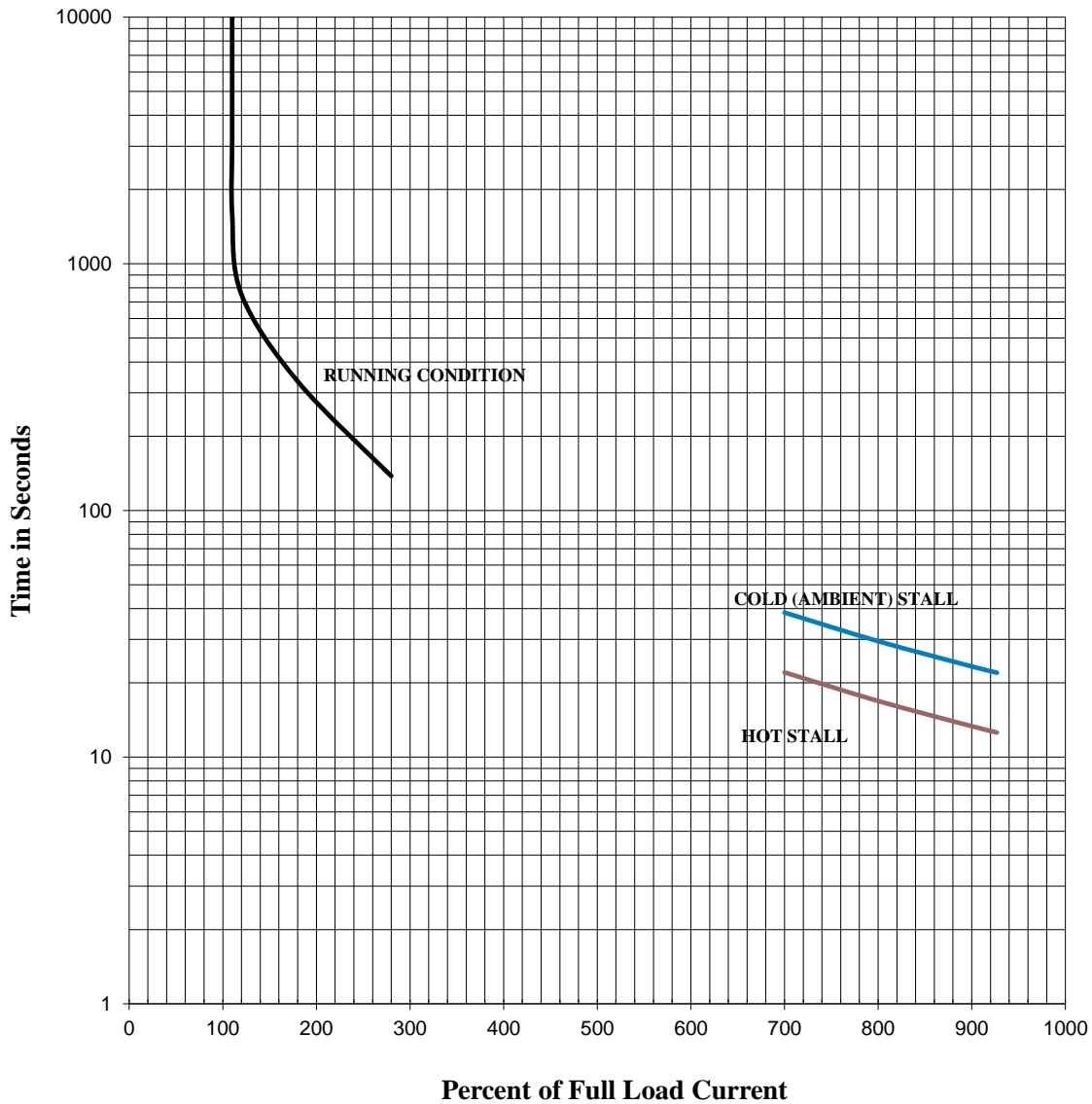
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0454SDMW7JS-P			FLAmps:	82
Enclosure:	TEFC	Voltage:	400 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)



Comments: PROJECT -

D.E.Curve #: GH4045 (45kW)

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: 415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 225S	ENCL: TEFC	FLAMPS: 80	FLRPM: 1480
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0454SDMW7JS-P		kW: 45	
NOM. EFF.: 94.2	MIN. EFF.: -	cosØ 0.82	

AMPERAGE

LOCKED ROTOR: 794

TORQUES

FULL LOAD (lb-ft.): 213
LOCKED ROTOR (%): 240
BREAK DOWN (%): 300

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 95.1
3/4 LOAD: 94.5
1/2 LOAD: 92.9

POWER FACTOR

FULL LOAD: 82.1
3/4 LOAD: 78.3
1/2 LOAD: 69.5

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: 10/21/2019

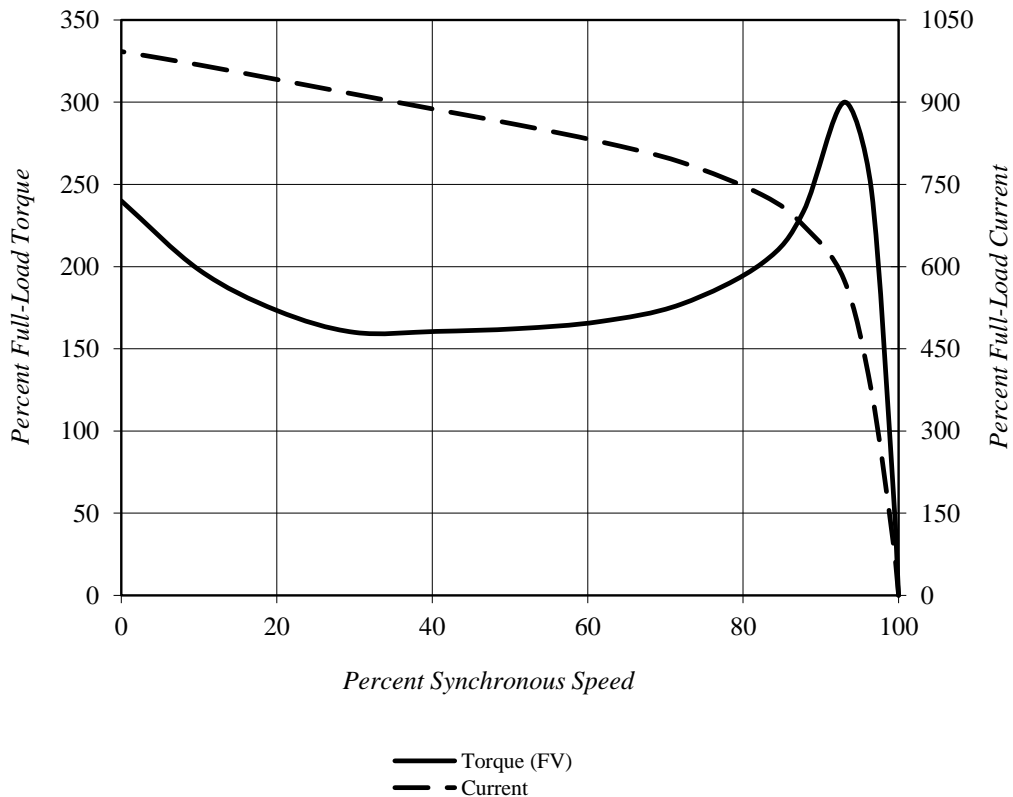
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0454SDMW7JS-P			FLAmps:	80
Enclosure:	TEFC	Voltage:	415 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)

Locked Rotor Amps:	794 A	Load Type:	N/A
Locked Rotor Torque:	240%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	213 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH4045 (45kW)

Prepared by: Zichao Xie

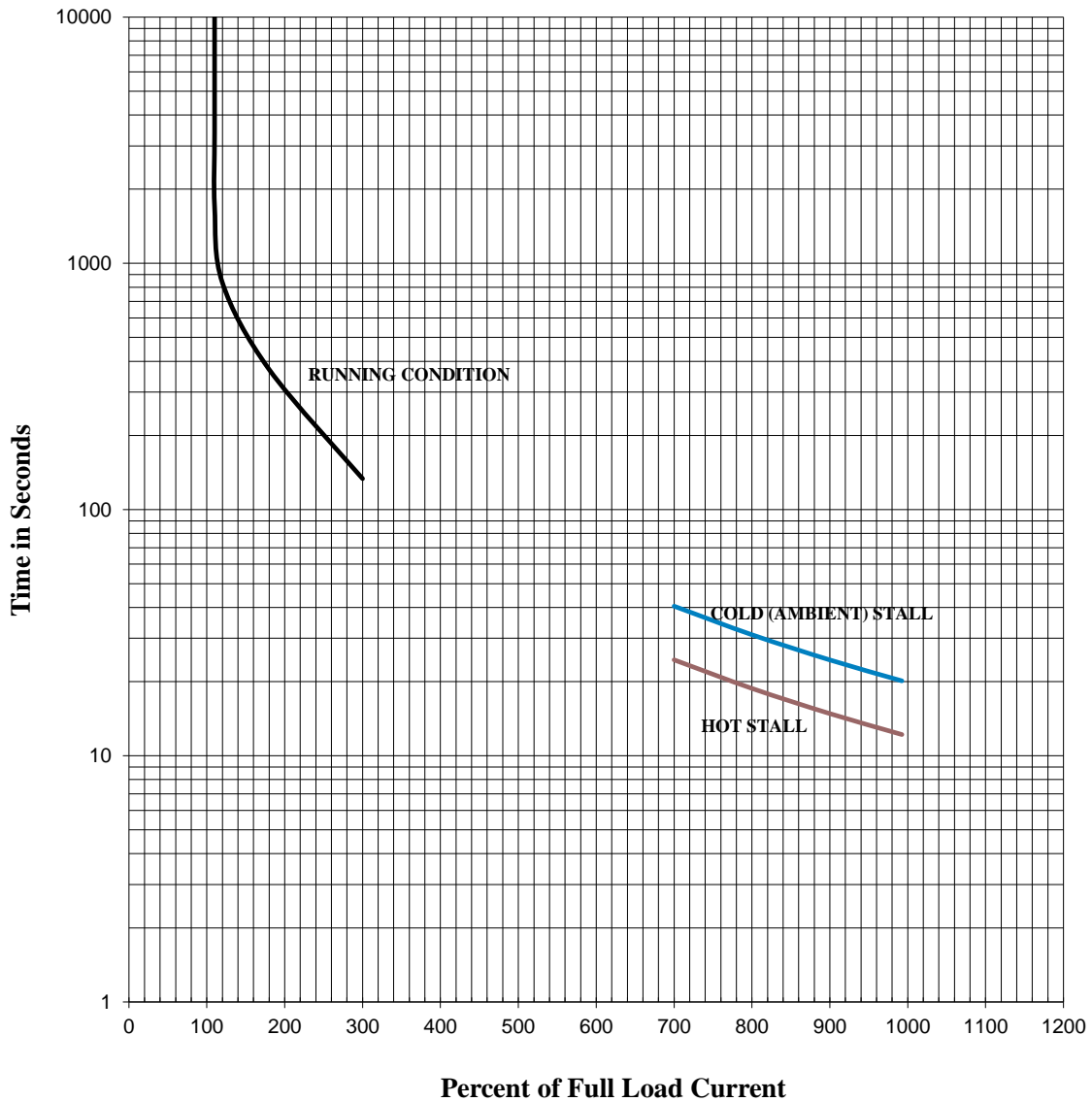
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0454SDMW7JS-P			FLAmps:	80
Enclosure:	TEFC	Voltage:	415 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)



Comments: PROJECT - _____

D.E.Curve #: GH4045 (45kW)

Prepared by: Zichao Xie

Checked by:

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

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 225S	ENCL: TEFC	FLAMPS: 85	FLRPM: 1480
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0454SDMW7JS-P		kW: 45	
NOM. EFF.: 94.2	MIN. EFF.: -	cosØ 0.84	

AMPERAGE

LOCKED ROTOR: 714

TORQUES

FULL LOAD (lb-ft.): 214
LOCKED ROTOR (%): 195
BREAK DOWN (%): 255

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 94.7
3/4 LOAD: 94.3
1/2 LOAD: 93.0

POWER FACTOR

FULL LOAD: 84.7
3/4 LOAD: 82.7
1/2 LOAD: 76.8

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: 10/21/2019

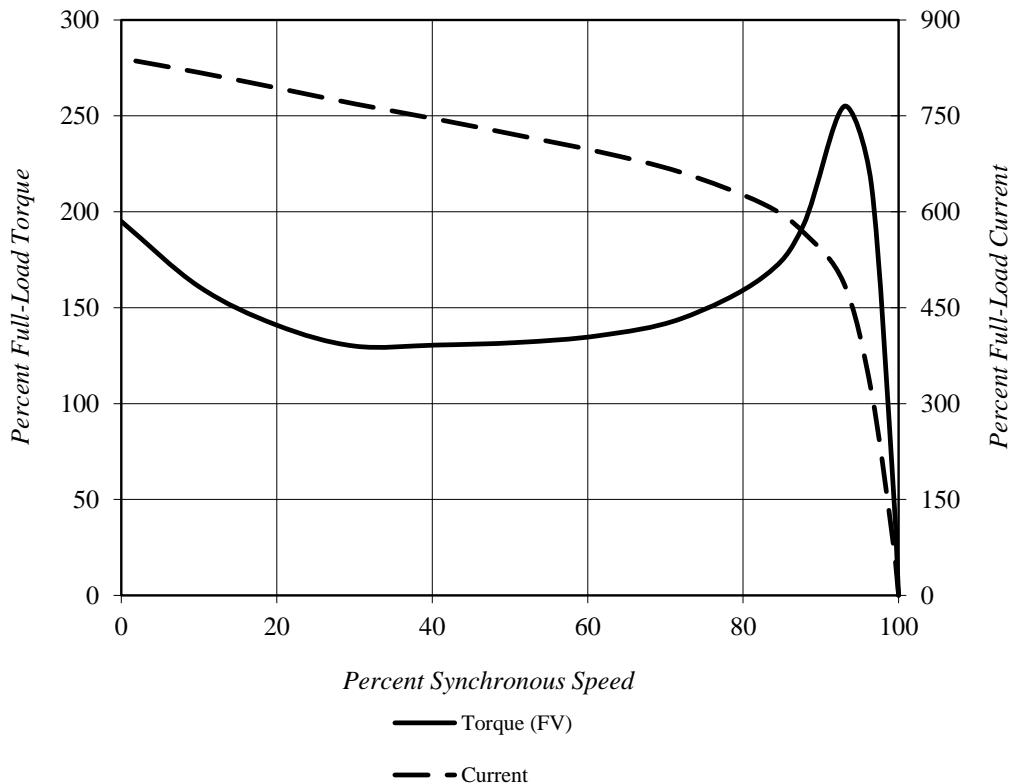
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0454SDMW7JS-P			FLAmps:	85
Enclosure:	TEFC	Voltage:	380 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)

Locked Rotor Amps:	714 A	Load Type:	N/A
Locked Rotor Torque:	195%	Starting at:	N/A
Breakdown Torque:	255%	Accel. Time:	N/A
Rated Torque:	214 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH4045 (45kW)

Prepared by: Zichao Xie

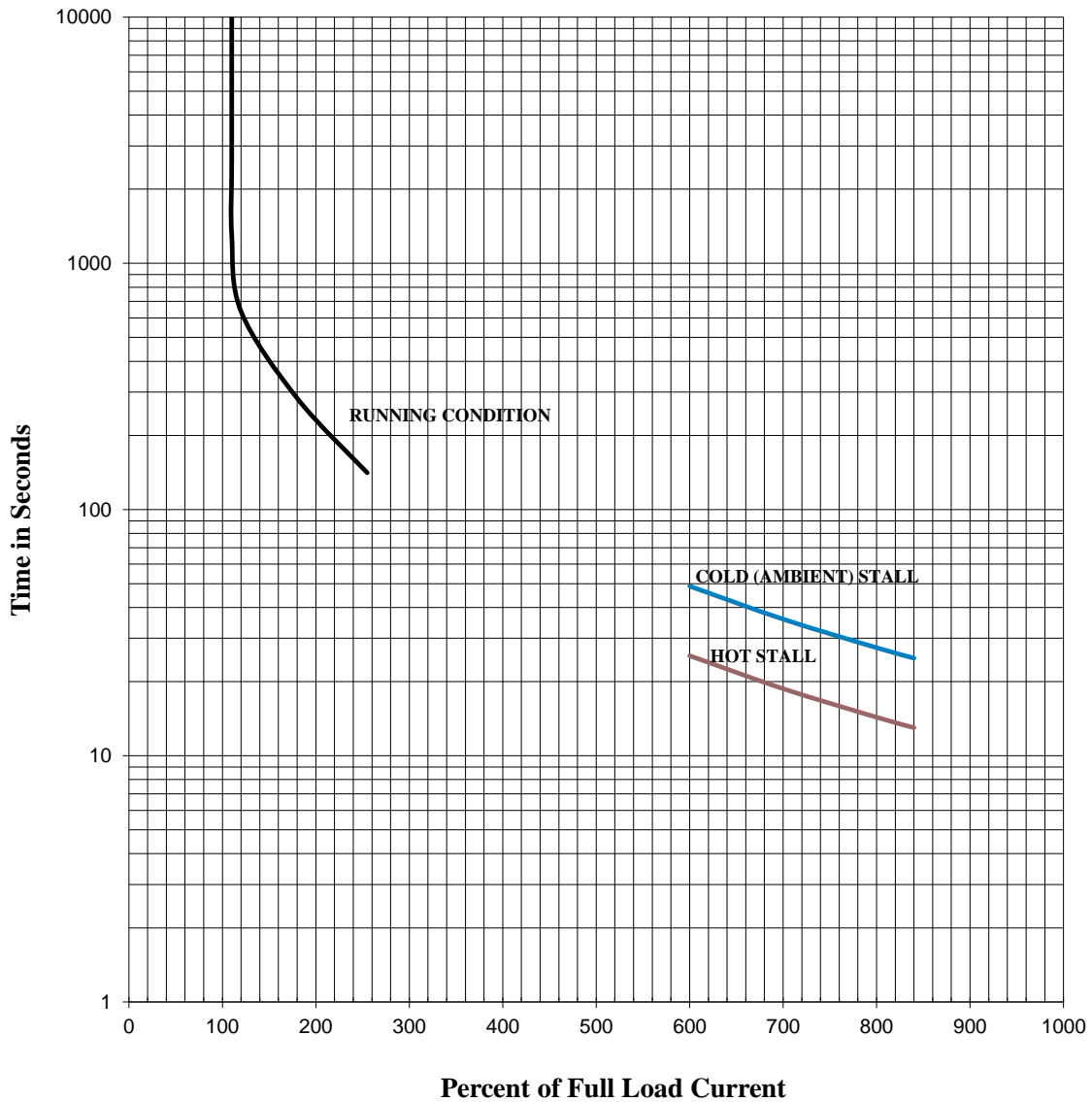
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0454SDMW7JS-P			FLAmps:	85
Enclosure:	TEFC	Voltage:	380 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	45	Rotor Inertia:	15.5 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4045 (45kW)



Comments: PROJECT _____

D.E. Curve #: GH4045 (45kW)

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
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	SUPERSEDES	11/8/96
	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -
 TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 60	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 225S	ENCL: TEFC	FLAMPS: 73	FLRPM: 1785
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0454SDMW7JS-P		kW: 45	
NOM. EFF.: 95.0	MIN. EFF.: -	P.F.: 81.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 735	FULL LOAD (lb-ft.): 177	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 245	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 310	

EFFICIENCY	POWER FACTOR
FULL LOAD: 95.2	FULL LOAD: 81.4
3/4 LOAD: 94.5	3/4 LOAD: 78.2
1/2 LOAD: 92.6	1/2 LOAD: 70.4

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.
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 * 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: 10/18/2019

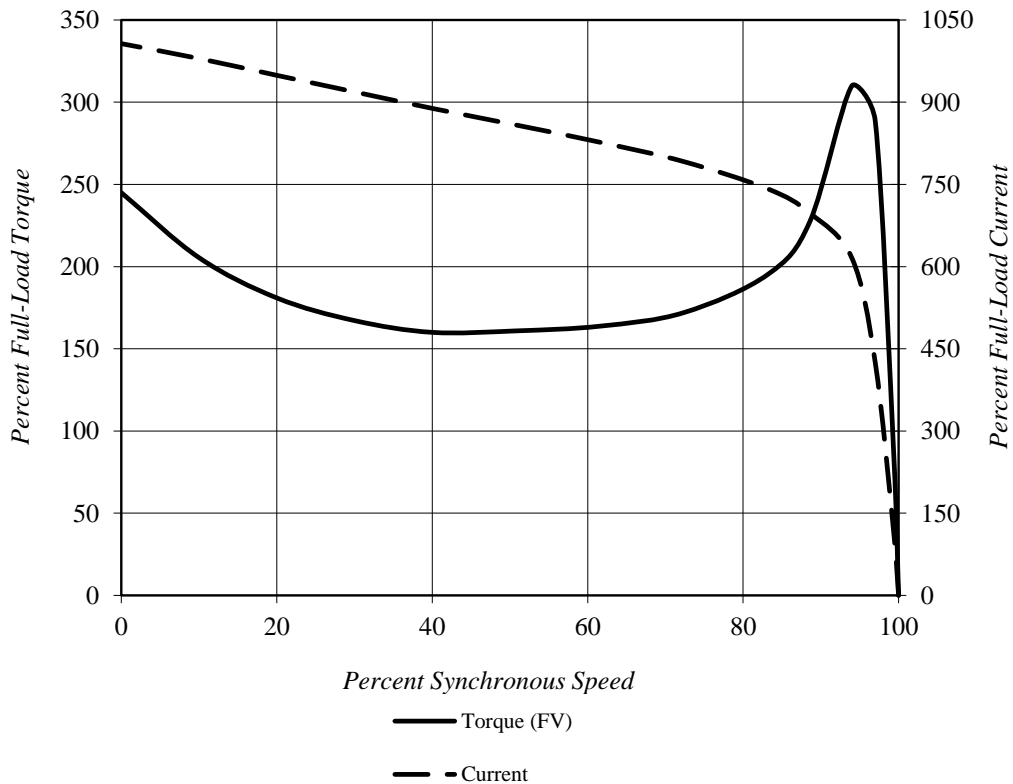
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0454SDMW7JS-P			FLAmps:	73
Enclosure:	TEFC	Voltage:	460 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	60	Rotor Inertia:	15.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1785	Load Inertia:	N/A	File:	GH4045 (45kW)

Locked Rotor Amps:	735 A	Load Type:	N/A
Locked Rotor Torque:	245%	Starting at:	N/A
Breakdown Torque:	310%	Accel. Time:	N/A
Rated Torque:	177 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4045 (45kW)

Prepared by: Zichao Xie

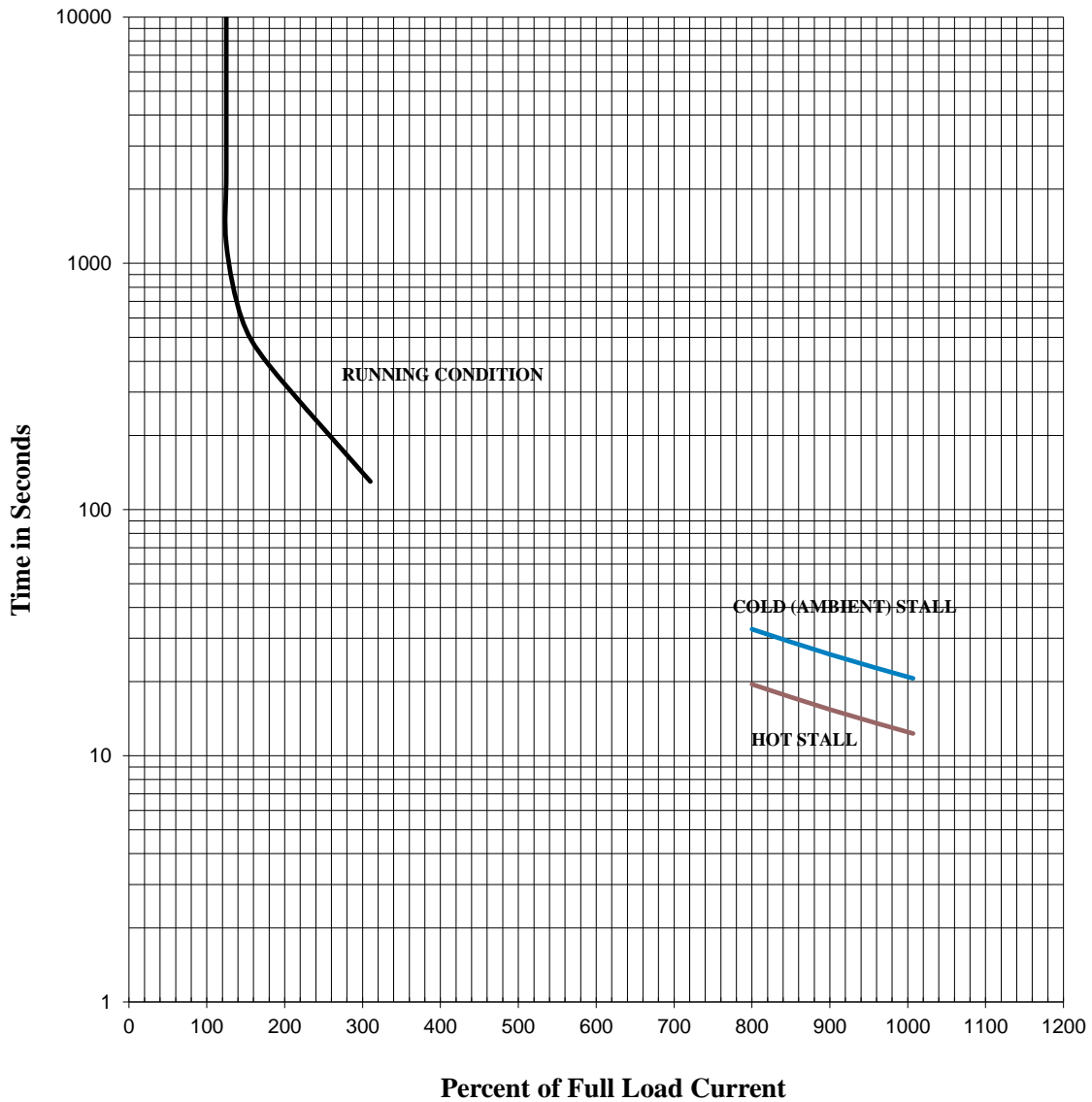
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0454SDMW7JS-P			FLAmps:	73
Enclosure:	TEFC	Voltage:	460 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	60	Rotor Inertia:	15.5 lb-ft ²	Date:	10/18/2019
FLRPM:	1785	Load Inertia:	N/A	File:	GH4045 (45kW)



Comments: PROJECT -

D.E. Curve #: GH4045 (45kW)

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