

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: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 20	FLRPM: 2930
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0112SDMW7HS-PL		kW: 11	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.86	

AMPERAGE

LOCKED ROTOR: 142

TORQUES

FULL LOAD (lb-ft.): 26
LOCKED ROTOR (%): 235
BREAK DOWN (%): 305

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.6
3/4 LOAD: 91.2
1/2 LOAD: 89.4

POWER FACTOR

FULL LOAD: 86.1
3/4 LOAD: 82.7
1/2 LOAD: 74.6

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: 8/5/2020

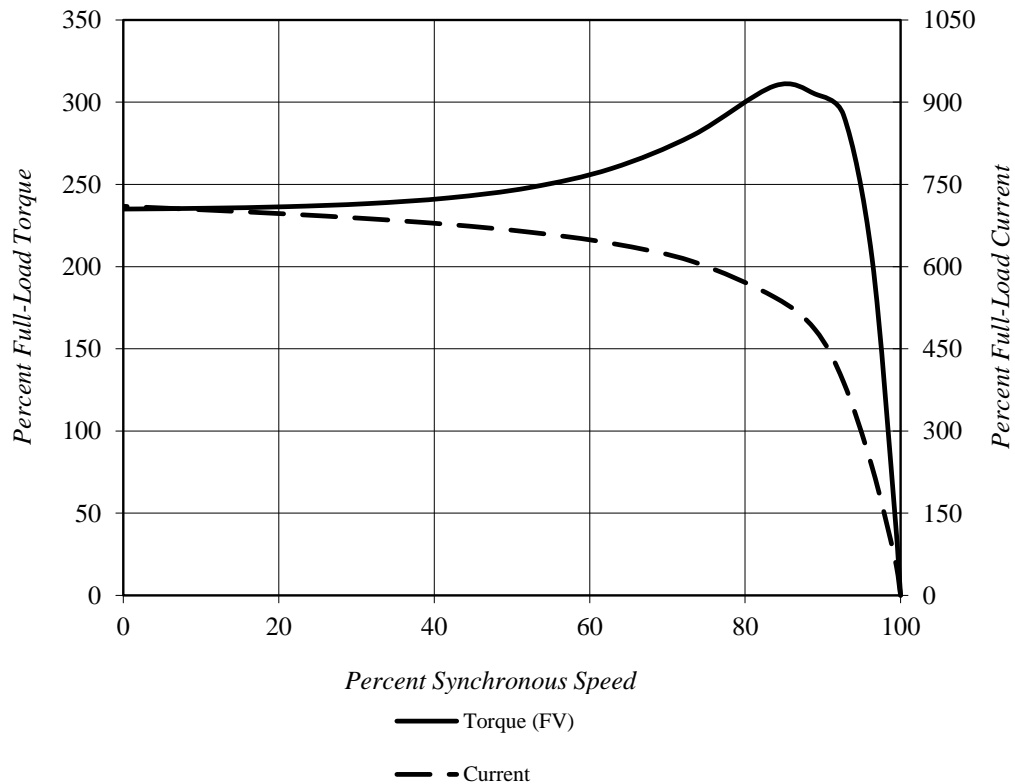
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7HS-PL			FLAmps:	20
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2011 (11kW)

Locked Rotor Amps:	142 A	Load Type:	N/A
Locked Rotor Torque:	235%	Starting at:	N/A
Breakdown Torque:	305%	Accel. Time:	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie

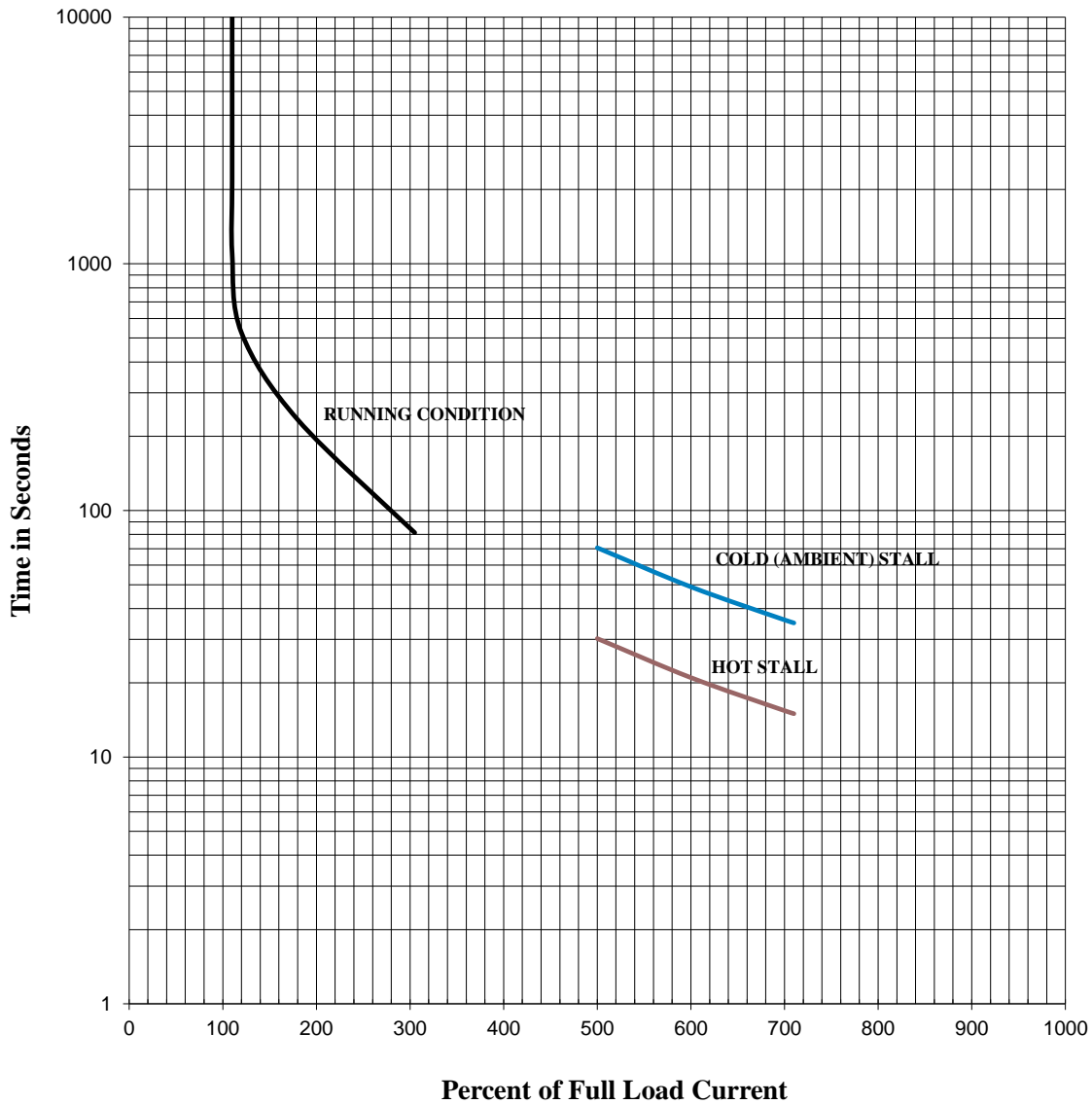
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7HS-PL			FLAmps:	20
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2011 (11kW)



Comments: PROJECT -

D.E. Curve #: GH2011 (11kW)

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
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: 415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 19.8	FLRPM: 2935
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0112SDMW7HS-PL		kW: 11	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.84	

AMPERAGE

LOCKED ROTOR: 147

TORQUES

FULL LOAD (lb-ft.): 26
LOCKED ROTOR (%): 255
BREAK DOWN (%): 325

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.9
3/4 LOAD: 91.4
1/2 LOAD: 89.4

POWER FACTOR

FULL LOAD: 84.2
3/4 LOAD: 79.8
1/2 LOAD: 70.2

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: 8/5/2020

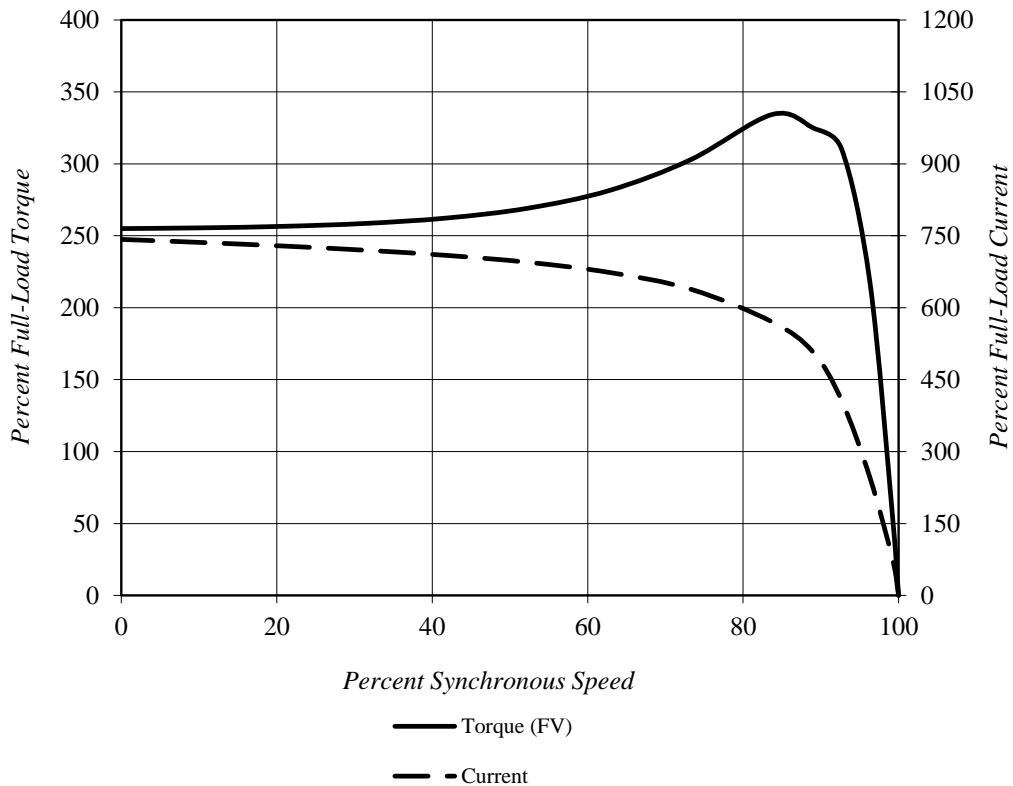
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7HS-PL			FLAmps:	19.8
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2935	Load Inertia:	N/A	File:	GH2011 (11kW)

Locked Rotor Amps:	147 A	Load Type:	N/A
Locked Rotor Torque:	255%	Starting at:	N/A
Breakdown Torque:	325%	Accel. Time:	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie

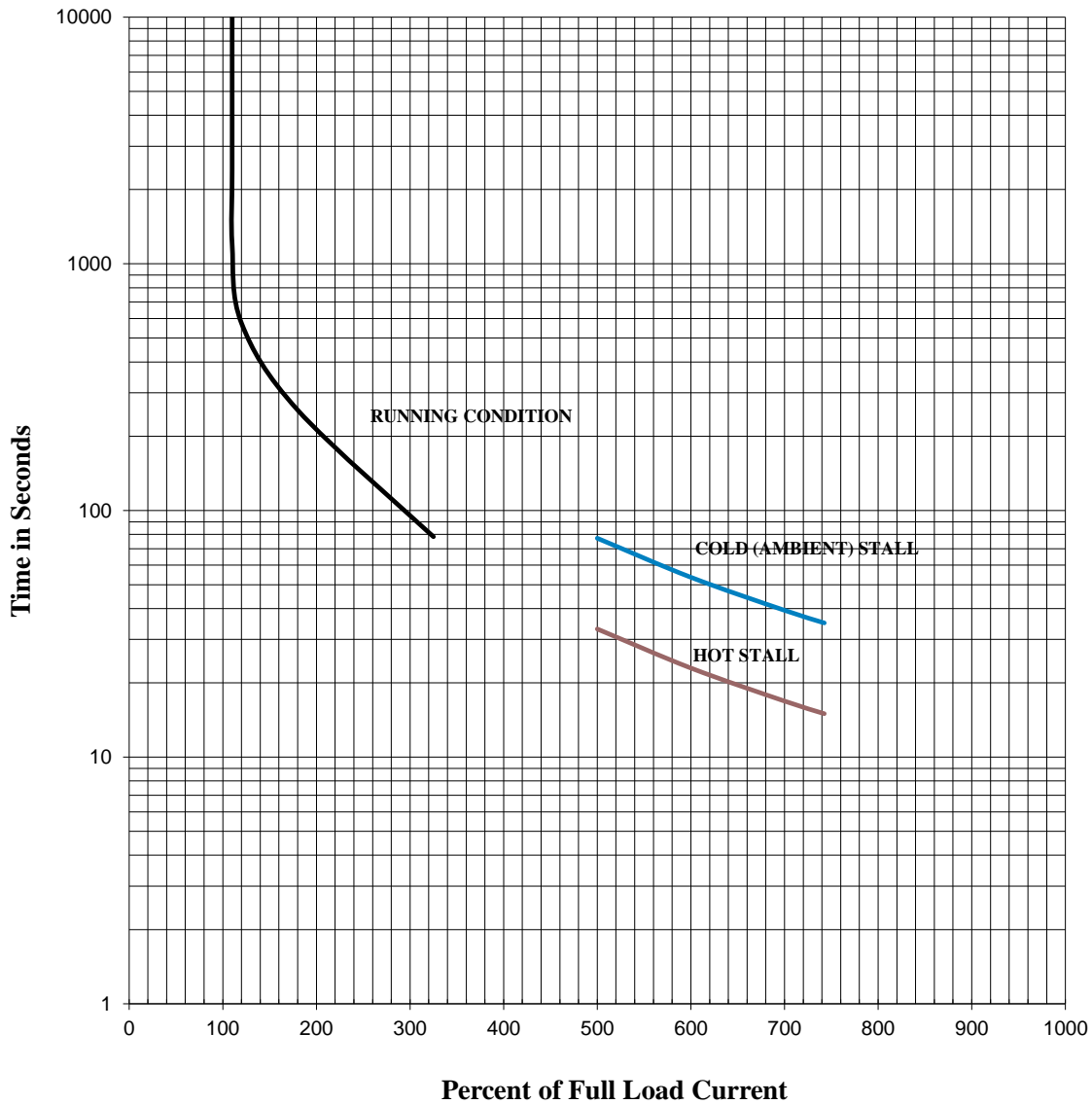
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7HS-PL			FLAmps:	19.8
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2935	Load Inertia:	N/A	File:	GH2011 (11kW)



Comments: PROJECT _____

D.E. Curve #: GH2011 (11kW)

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
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: 380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 21	FLRPM: 2925
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0112SDMW7HS-PL		kW: 11	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.88	

AMPERAGE

LOCKED ROTOR: 134

TORQUES

FULL LOAD (lb-ft.): 26
LOCKED ROTOR (%): 210
BREAK DOWN (%): 275

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.1
3/4 LOAD: 90.9
1/2 LOAD: 89.4

POWER FACTOR

FULL LOAD: 88.1
3/4 LOAD: 85.9
1/2 LOAD: 79.8

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: 8/5/2020

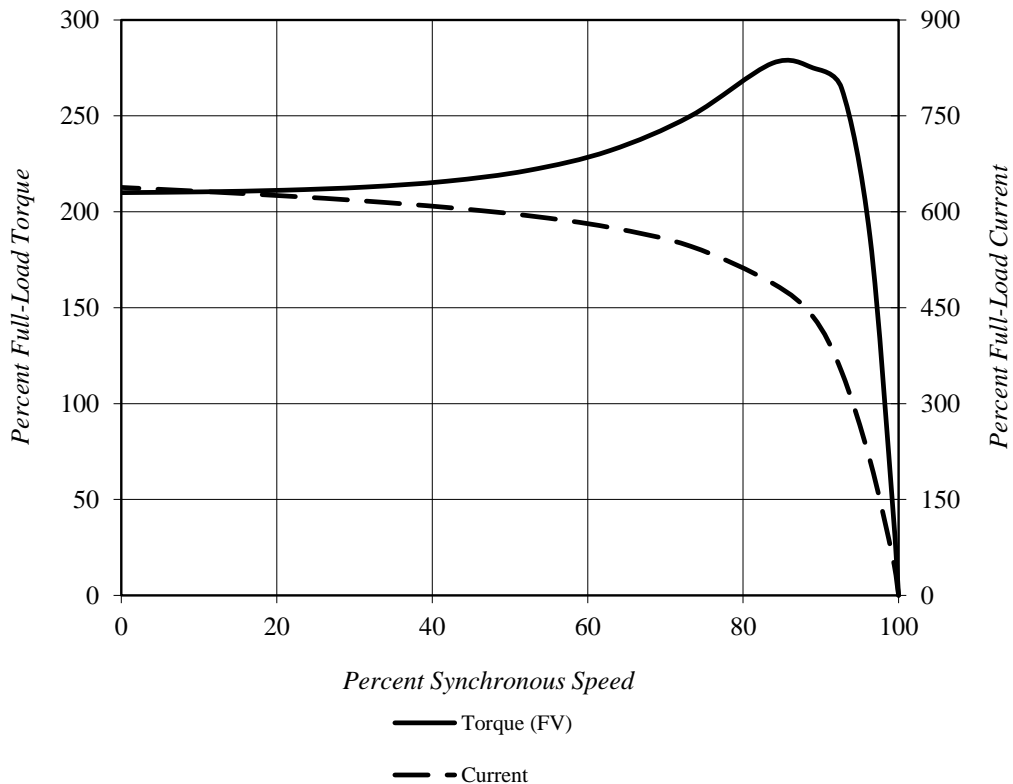
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7HS-PL			FLAmps:	21
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2925	Load Inertia:	N/A	File:	GH2011 (11kW)

Locked Rotor Amps:	134 A	Load Type:	N/A
Locked Rotor Torque:	210%	Starting at:	N/A
Breakdown Torque:	275%	Accel. Time:	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie

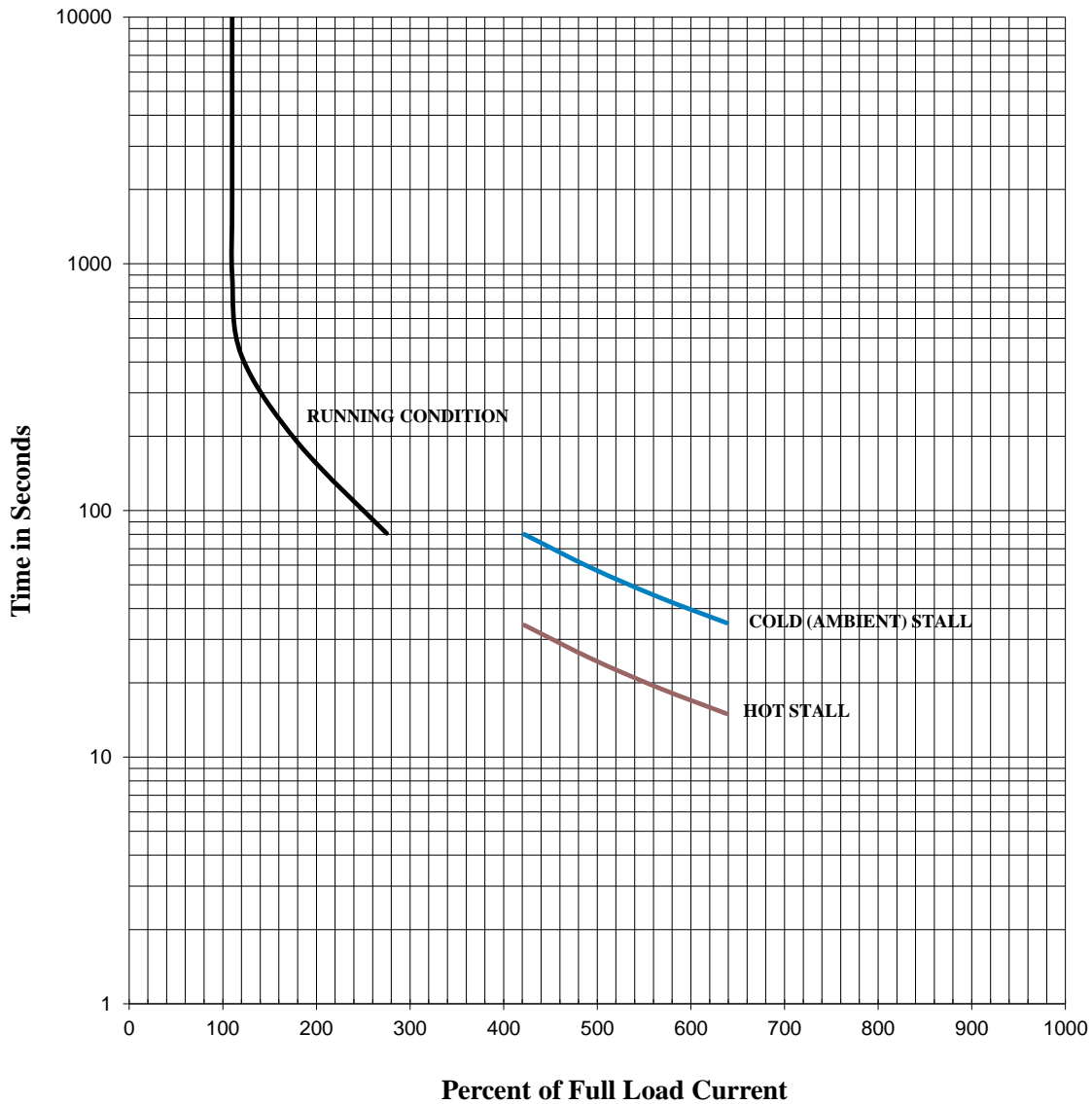
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7HS-PL			FLAmps:	21
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	1.2 lb-ft ²	Date:	8/5/2020
FLRPM:	2925	Load Inertia:	N/A	File:	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

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
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.: 15	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 160M	ENCL: TEFC	FLAMPS: 17.8	FLRPM: 3550
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: J	DUTY: Cont.
MODEL No.: 0112SDMW7HS-PL		kW: 11	
NOM. EFF.: 91.0	MIN. EFF.: -	P.F.: 85.0	

AMPERAGE

LOCKED ROTOR: 137

TORQUES

FULL LOAD (lb-ft.): 22
LOCKED ROTOR (%): 275
BREAK DOWN (%): 390

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.1
3/4 LOAD: 90.3
1/2 LOAD: 88.0

POWER FACTOR

FULL LOAD: 85.2
3/4 LOAD: 81.7
1/2 LOAD: 73.5

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: 1/8/2020

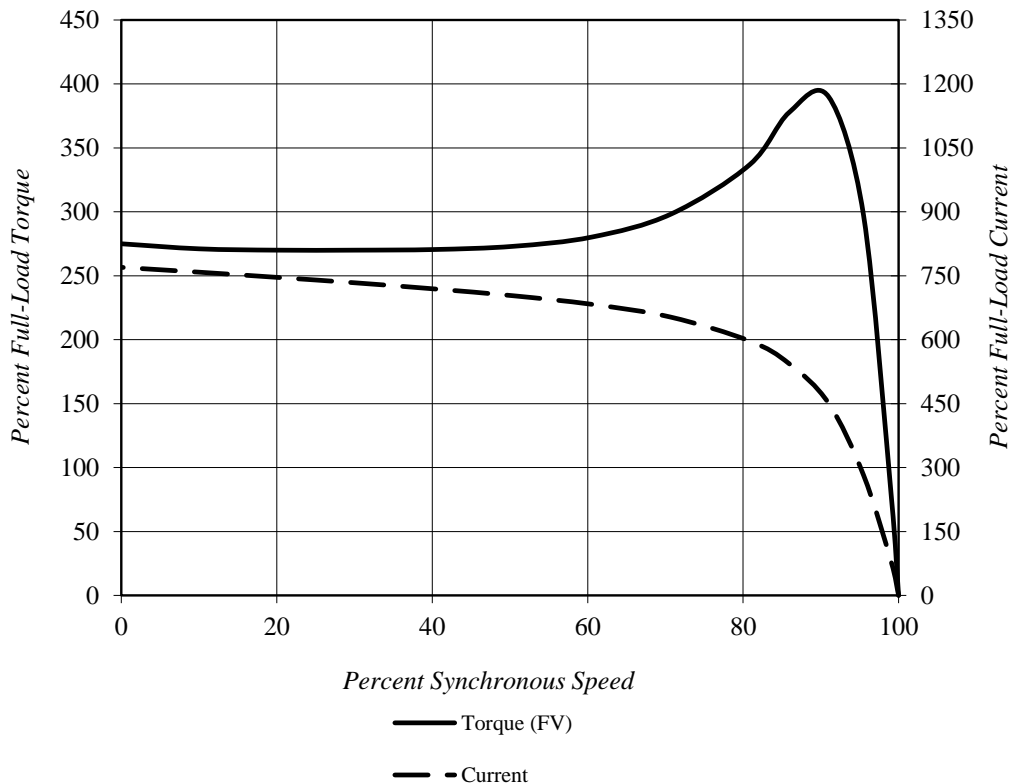
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7HS-PL			FLAmps:	17.8
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	1.2 lb-ft ²	Date:	1/8/2020
FLRPM:	3550	Load Inertia:	N/A	File:	GH2011 (11kW)

Locked Rotor Amps:	137 A	Load Type:	N/A
Locked Rotor Torque:	275%	Starting at:	N/A
Breakdown Torque:	390%	Accel. Time:	N/A
Rated Torque:	22 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie

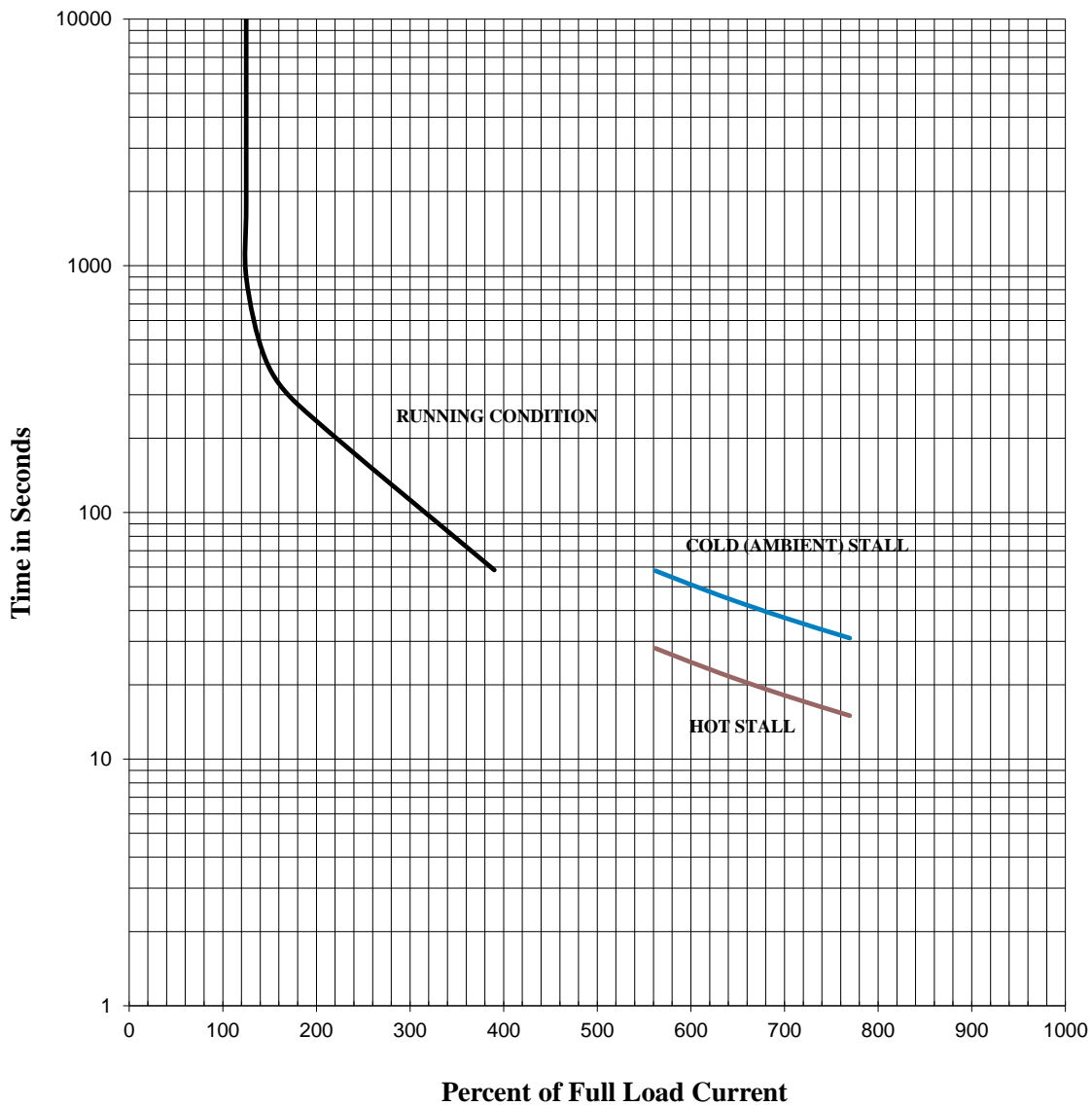
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7HS-PL			FLAmps:	17.8
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	1.2 lb-ft ²	Date:	1/8/2020
FLRPM:	3550	Load Inertia:	N/A	File:	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie

Checked by: