

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		TYPE: 2-4-6P 400V	TOLERANCES				ROTATION: CCW				
3HFN000320		FRAME: 160L	X.	±2.0						VIEW FROM: ODE	
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		MAXIMUM MOTOR WEIGHT		X.X	±0.5					EQP Global SD XT SERIES DRAWN BY: HIEN, NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/find	
		- lbs.		X.XX	±0.1						
						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: 400	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160L	ENCL: TEFC	FLAMPS: 22	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0116SDMW7KS-PL		kW: 11	
NOM. EFF.: 90.3	MIN. EFF.: -	cosØ 0.78	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 158	FULL LOAD (lb-ft.): 80	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 295	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 300	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.8	FULL LOAD: 78.2
3/4 LOAD: 90.9	3/4 LOAD: 73.9
1/2 LOAD: 89.6	1/2 LOAD: 64.2

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: 9/10/2020

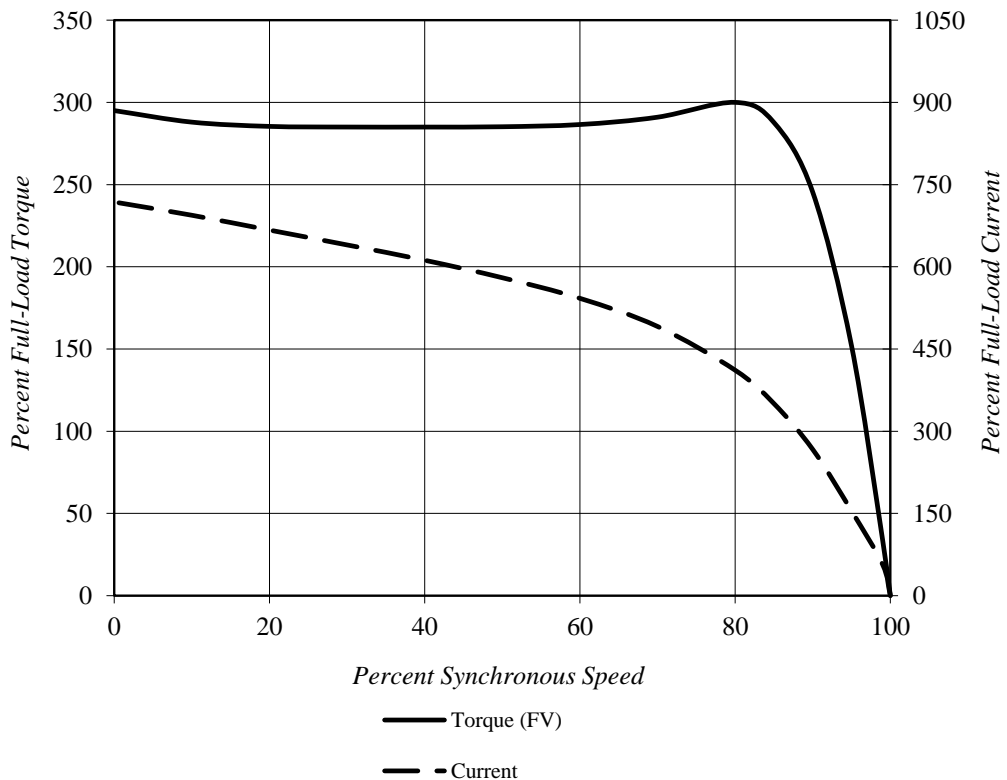
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0116SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6011 (11kW)

Locked Rotor Amps:	158 A	Load Type:	N/A
Locked Rotor Torque:	295%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	80 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6011 (11kW)

Prepared by: Zichao Xie

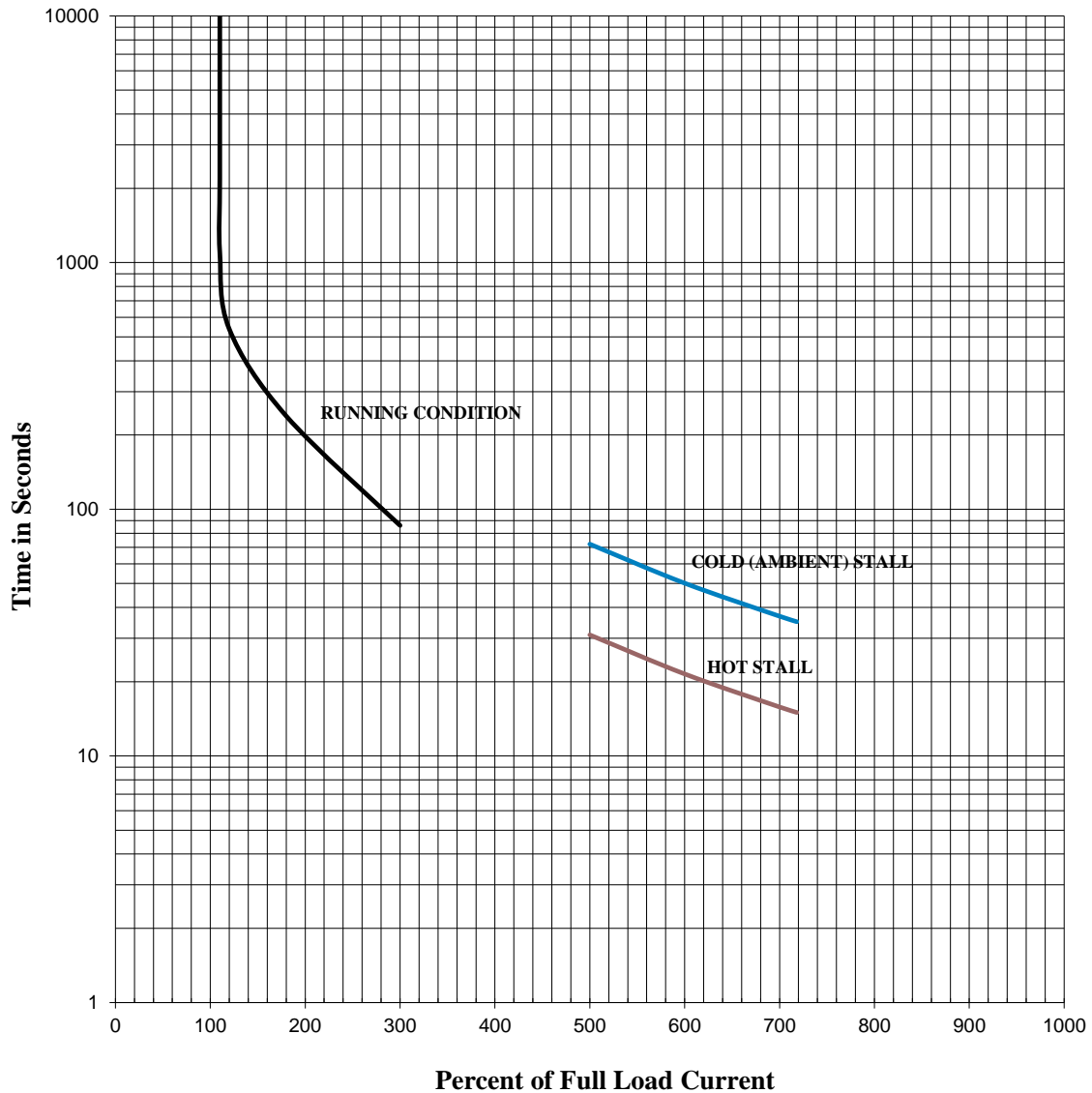
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0116SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH6011 (11kW)

Prepared by: Zichao Xie

Checked by:

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	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160L	ENCL: TEFC	FLAMPS: 22	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0116SDMW7KS-PL		kW: 11	
NOM. EFF.: 90.3	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 164	FULL LOAD (lb-ft.): 79	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 325	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 320	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.4	FULL LOAD: 77.5
3/4 LOAD: 91.3	3/4 LOAD: 72.1
1/2 LOAD: 89.6	1/2 LOAD: 61.2

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%.
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DATE: 9/10/2020

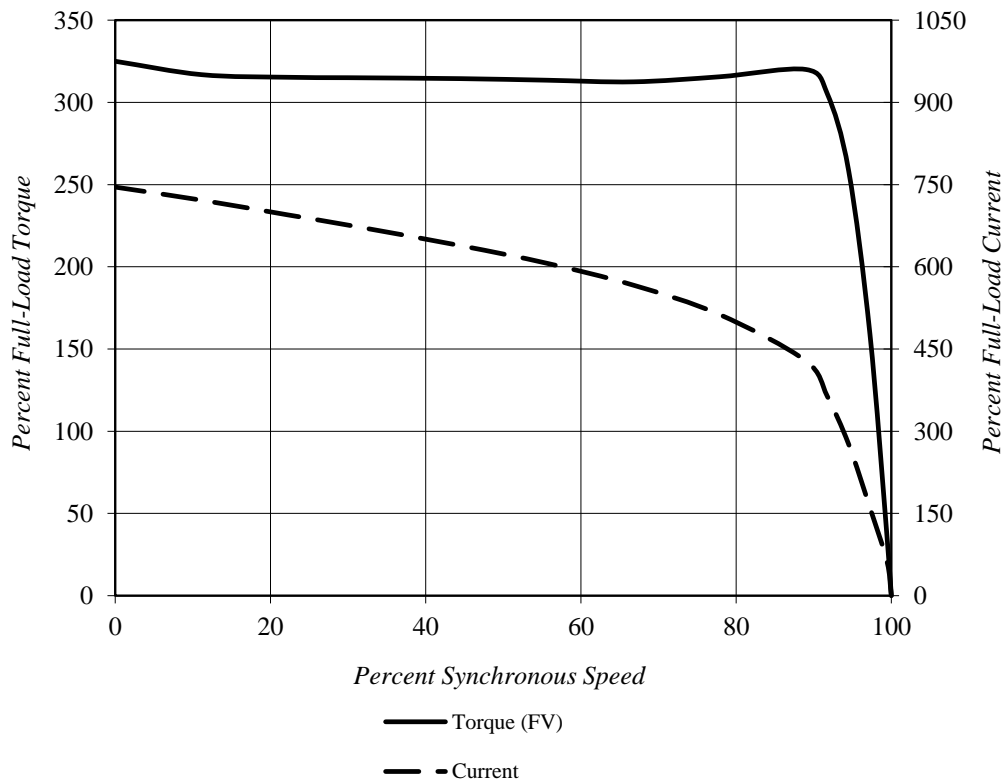
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0116SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6011 (11kW)

Locked Rotor Amps:	164 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	320%	Accel. Time:	N/A
Rated Torque:	79 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6011 (11kW)

Prepared by: Zichao Xie

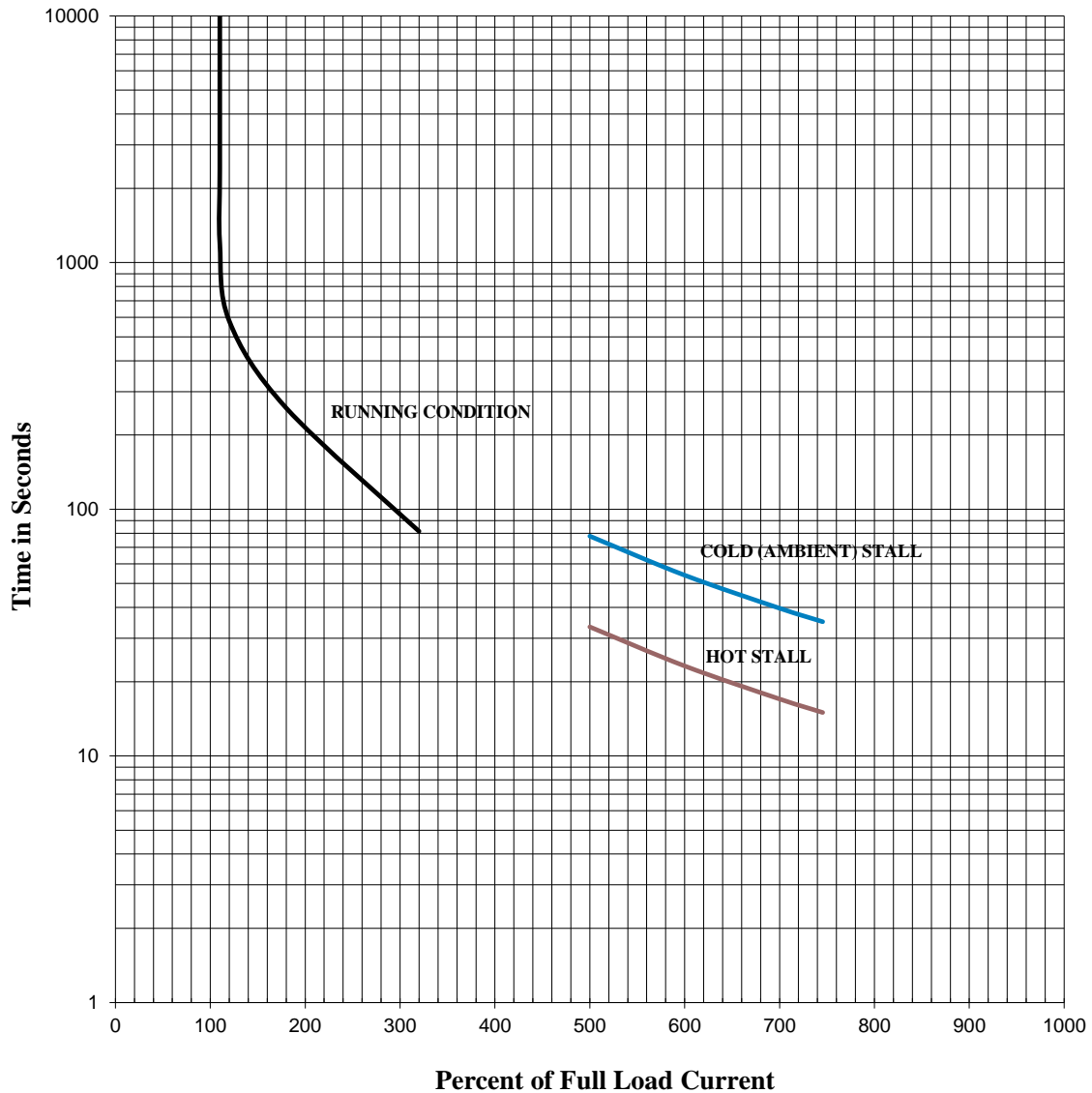
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0116SDMW7KS-PL			FLAmps:	22
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH6011 (11kW)

Prepared by: Zichao Xie

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160L	ENCL: TEFC	FLAMPS: 23	FLRPM: 965
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0116SDMW7KS-PL		kW: 11	
NOM. EFF.: 90.3	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 148	FULL LOAD (lb-ft.): 80	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 260	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 270	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.4	FULL LOAD: 80.6
3/4 LOAD: 90.8	3/4 LOAD: 77.1
1/2 LOAD: 89.9	1/2 LOAD: 68.6

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE,
FREQUENCY AND SINEWAVE POWER INPUT.

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DATE: 9/10/2020

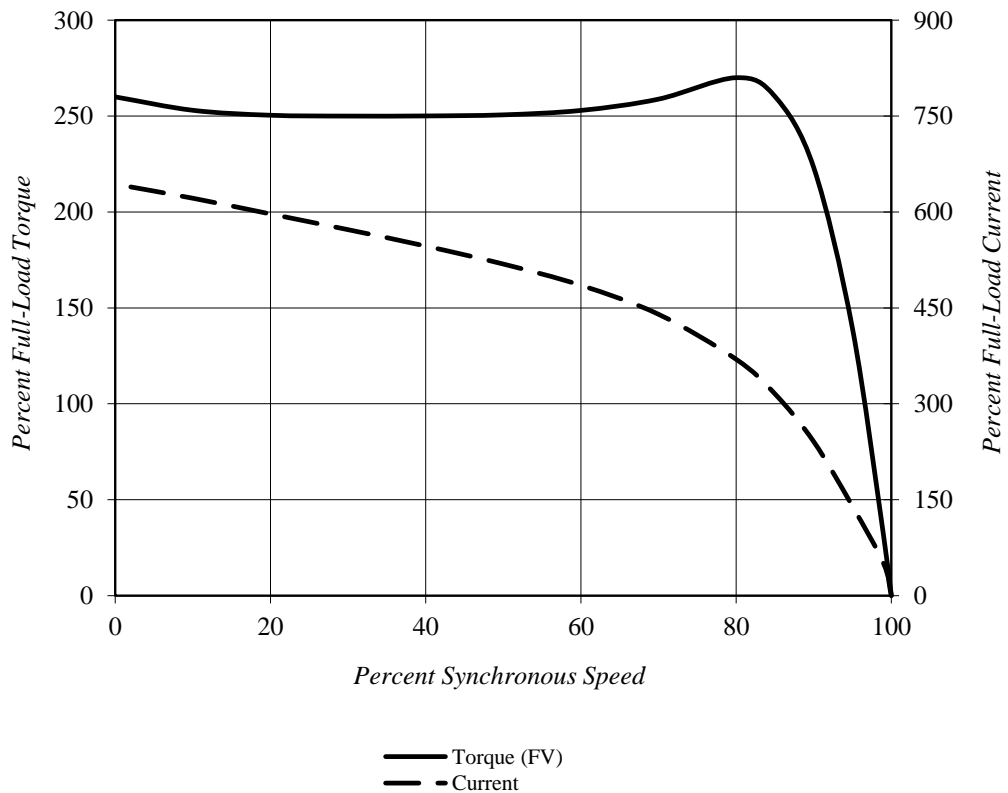
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0116SDMW7KS-PL			FLAmps:	23
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6011 (11kW)

Locked Rotor Amps:	148 A	Load Type:	N/A
Locked Rotor Torque:	260%	Starting at:	N/A
Breakdown Torque:	270%	Accel. Time:	N/A
Rated Torque:	80 lb-ft		

Design Values



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D.E.Curve #: GH6011 (11kW)

Prepared by: Zichao Xie

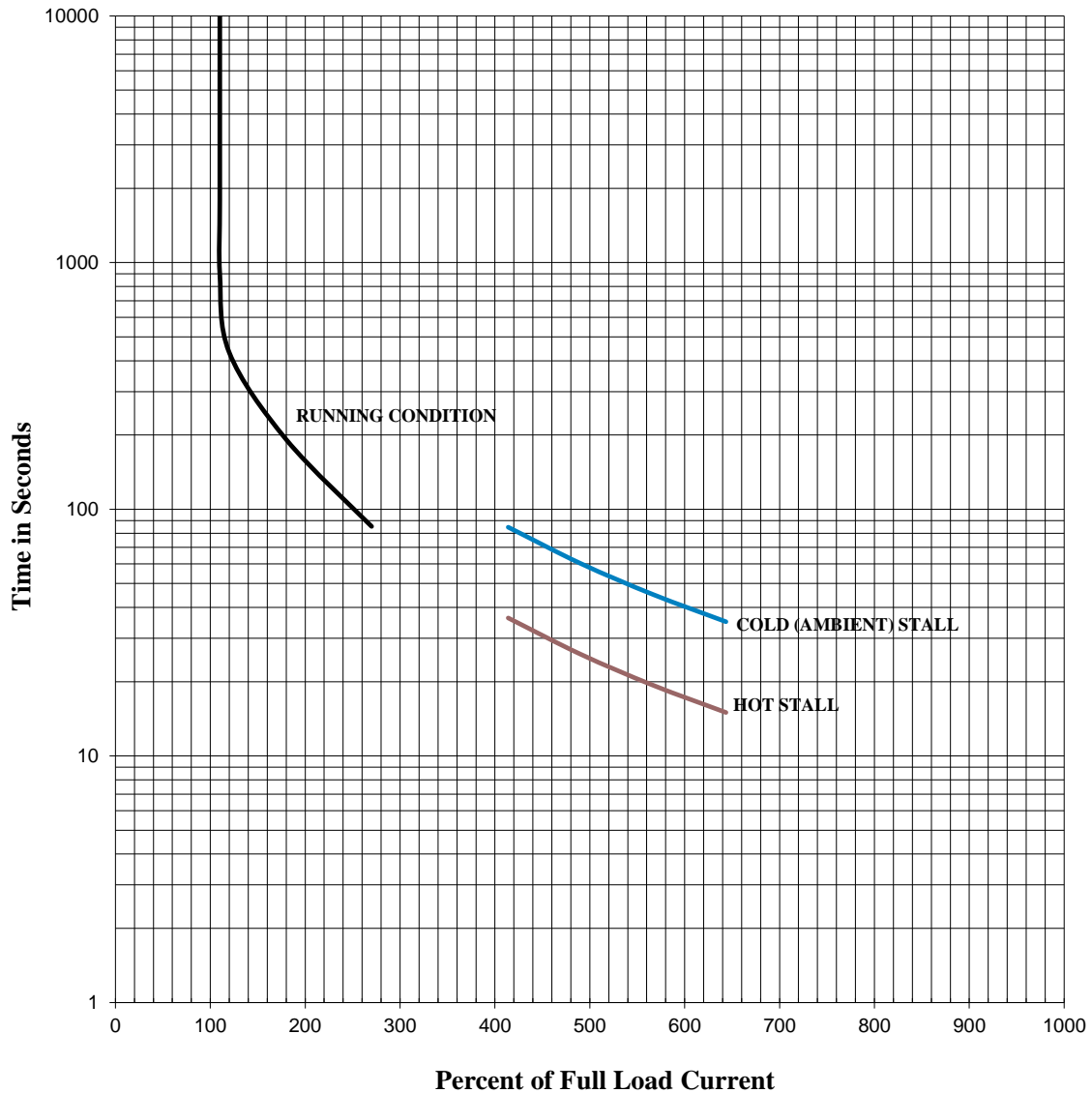
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0116SDMW7KS-PL			FLAmps:	23
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	11	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6011 (11kW)



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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 15	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 160L	ENCL: TEFC	FLAMPS: 19.5	FLRPM: 1175
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: 0116SDMW7KS-PL		kW: 11	
NOM. EFF.: 91.7	MIN. EFF.: -	P.F.: 76.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 159	FULL LOAD (lb-ft.): 66	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 340	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 315	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.1	FULL LOAD: 76.9
3/4 LOAD: 91.6	3/4 LOAD: 71.9
1/2 LOAD: 89.7	1/2 LOAD: 61.6

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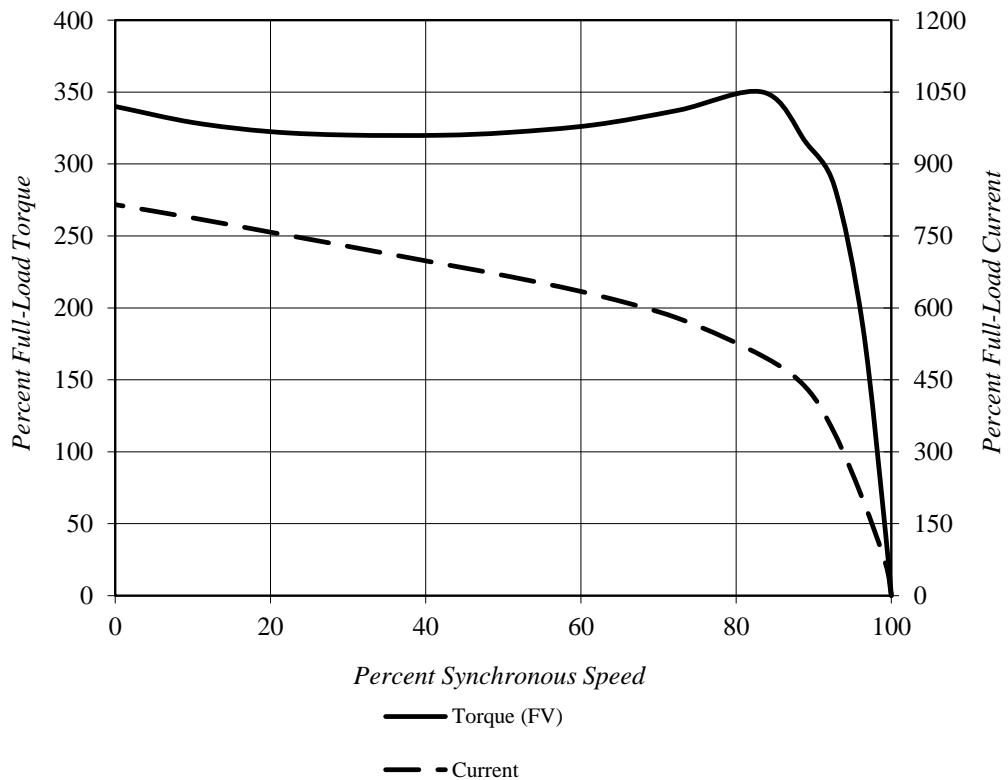
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0116SDMW7KS-PL			FLAmps:	19.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6011 (11kW)

Locked Rotor Amps:	159 A	Load Type:	N/A
Locked Rotor Torque:	340%	Starting at:	N/A
Breakdown Torque:	315%	Accel. Time:	N/A
Rated Torque:	66 lb-ft		

Design Values



Comments: PROJECT -

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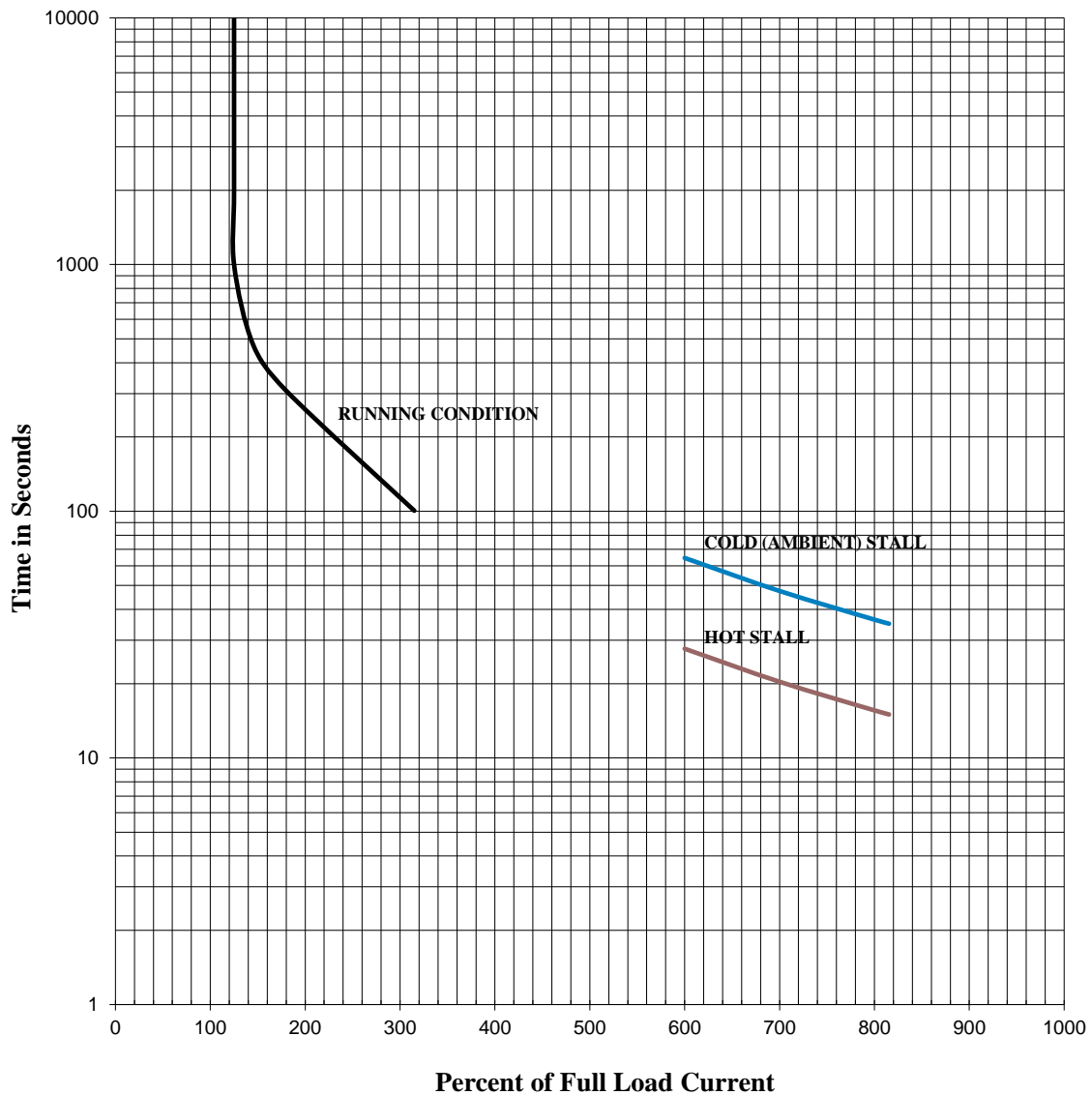
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0116SDMW7KS-PL			FLAmps:	19.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	15	Rotor Inertia:	3.9 lb-ft ²	Date:	9/10/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6011 (11kW)



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D.E.Curve #: GH6011 (11kW)

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