

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: 3000
FRAME: 80M	ENCL: TEFC	FLAMPS: 3.7/2.1	FLRPM: 2890
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y112SDMV7GS-P		kW: 1.1	
NOM. EFF.: 82.7	MIN. EFF.: -	cosØ 0.88	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 33/19.0	FULL LOAD (lb-ft.): 2.7	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 335	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 455	

EFFICIENCY	POWER FACTOR
FULL LOAD: 84.6	FULL LOAD: 88.7
3/4 LOAD: 84.6	3/4 LOAD: 84.1
1/2 LOAD: 82.0	1/2 LOAD: 74.5

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).
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CERTIFIED BY: Zichao Xie

DATE: 12/26/2019

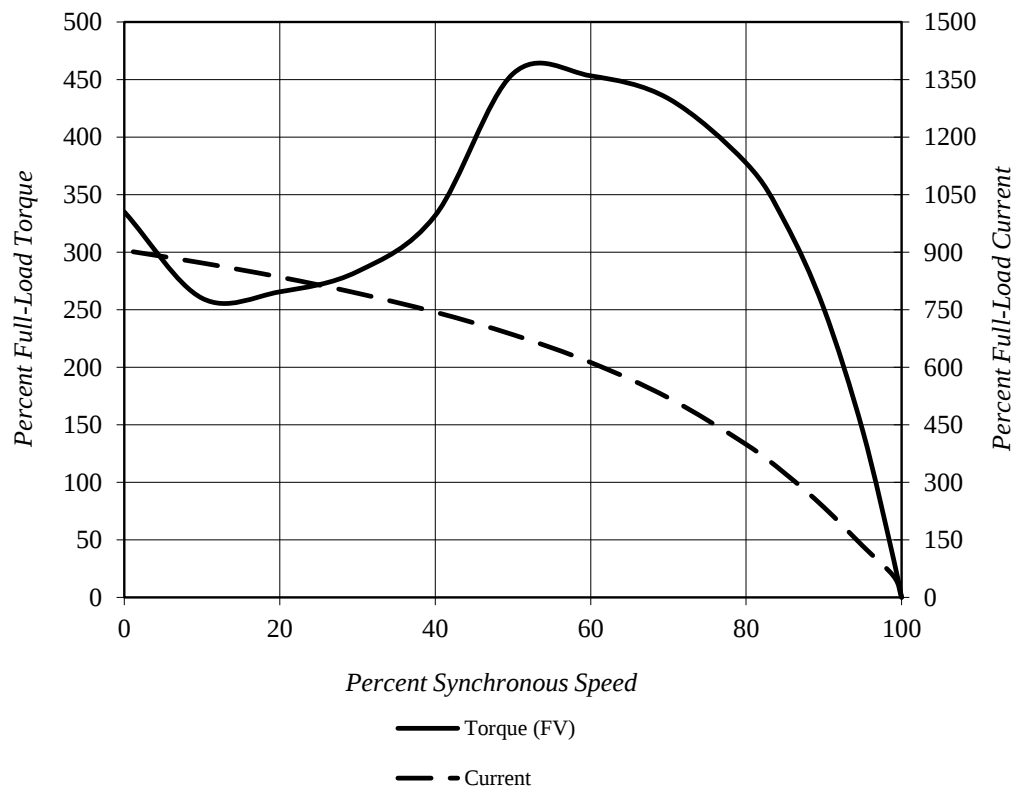
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y112SDMV7GS-P			FLAmps:	3.7/2.1
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2890	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)

Locked Rotor Amps:	33/19.0 A	Load Type:	N/A
Locked Rotor Torque:	335%	Starting at:	N/A
Breakdown Torque:	455%	Accel. Time:	N/A
Rated Torque:	2.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y11 (1.1kW)

Prepared by: Zichao Xie

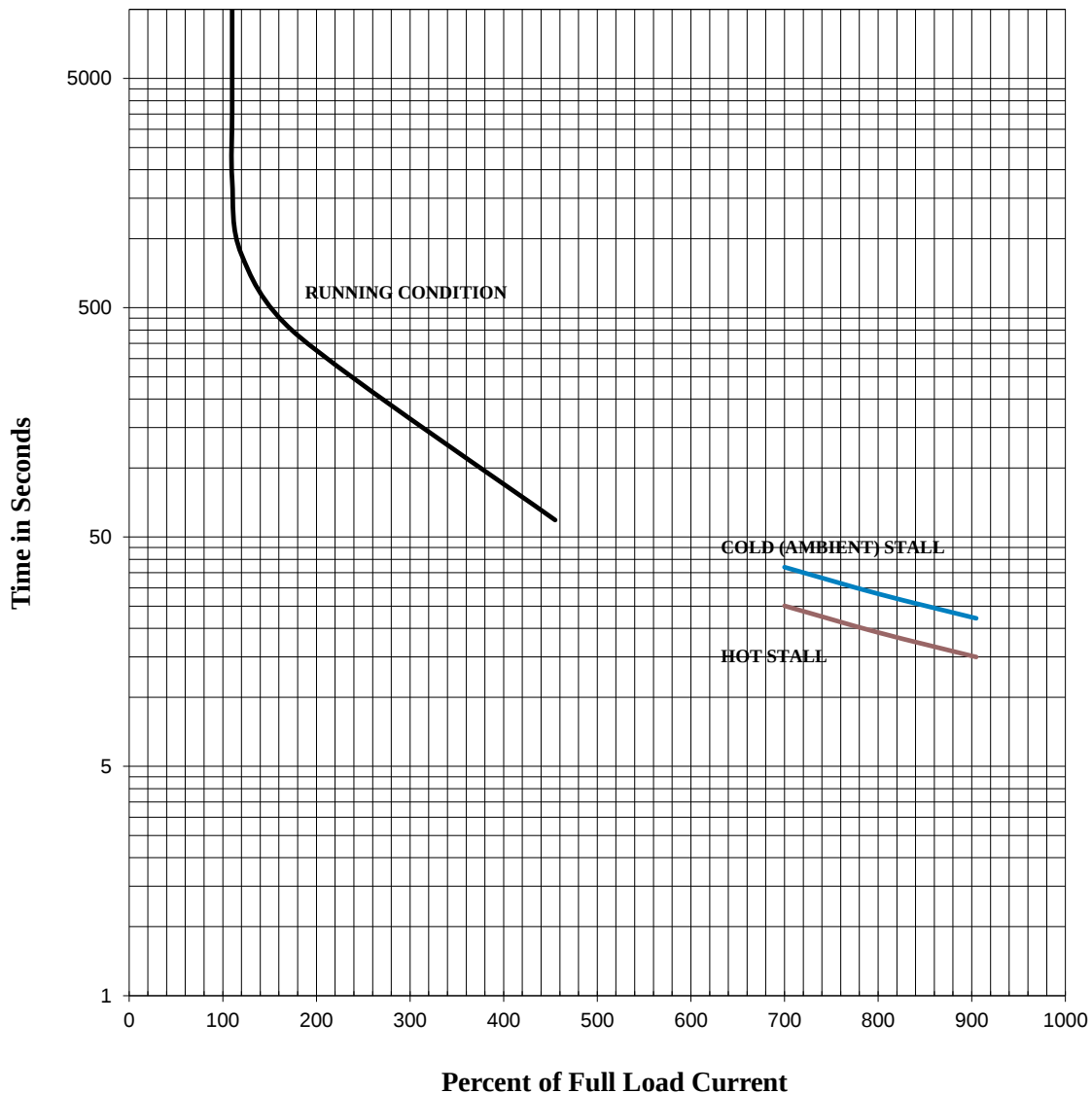
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y112SDMV7GS-P			FLAmps:	3.7/2.1
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2890	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)



Comments: PROJECT -

D.E.Curve #: GH2Y11 (1.1kW)

Prepared by: Zichao Xie

Checked by:

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 80M	ENCL: TEFC	FLAMPS: 3.6/2.1	FLRPM: 2900
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y112SDMV7GS-P		kW: 1.1	
NOM. EFF.: 82.7	MIN. EFF.: -	cosØ 0.87	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 34/19.8	FULL LOAD (lb-ft.): 2.7	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 365	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 490	

EFFICIENCY	POWER FACTOR
FULL LOAD: 85.2	FULL LOAD: 87.4
3/4 LOAD: 84.8	3/4 LOAD: 82.3
1/2 LOAD: 81.8	1/2 LOAD: 71.9

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).
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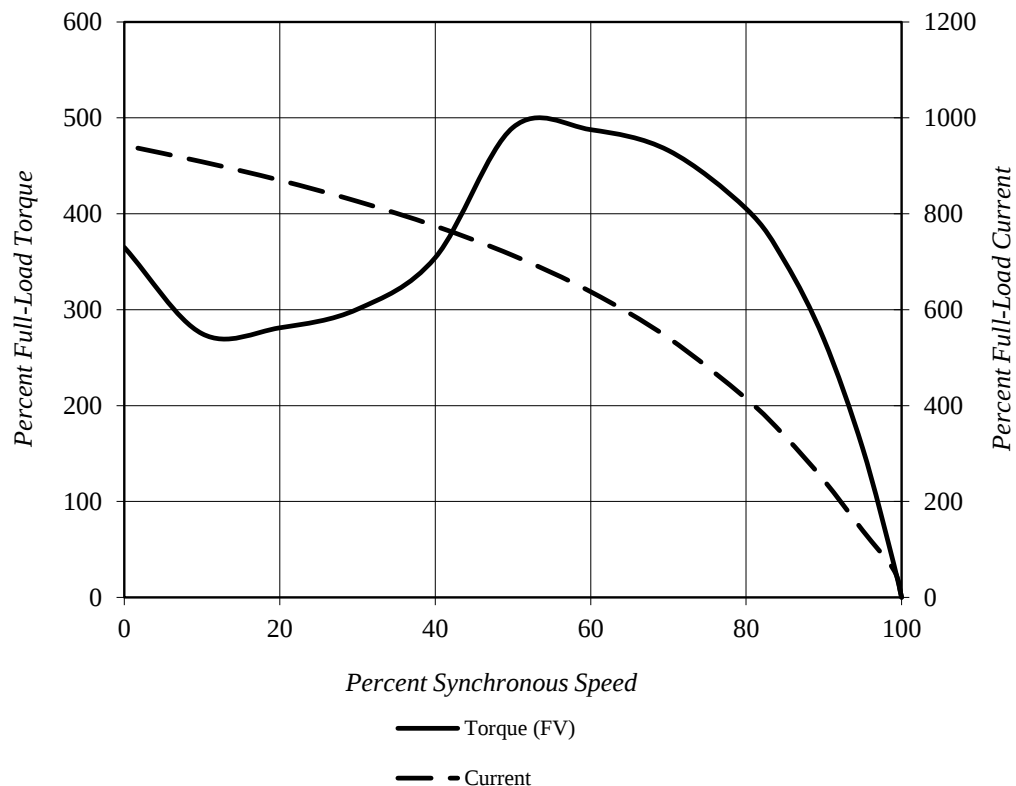
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y112SDMV7GS-P			FLAmps:	3.6/2.1
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2900	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)

Locked Rotor Amps:	34/19.8 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	490%	Accel. Time:	N/A
Rated Torque:	2.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y11 (1.1kW)

Prepared by: Zichao Xie

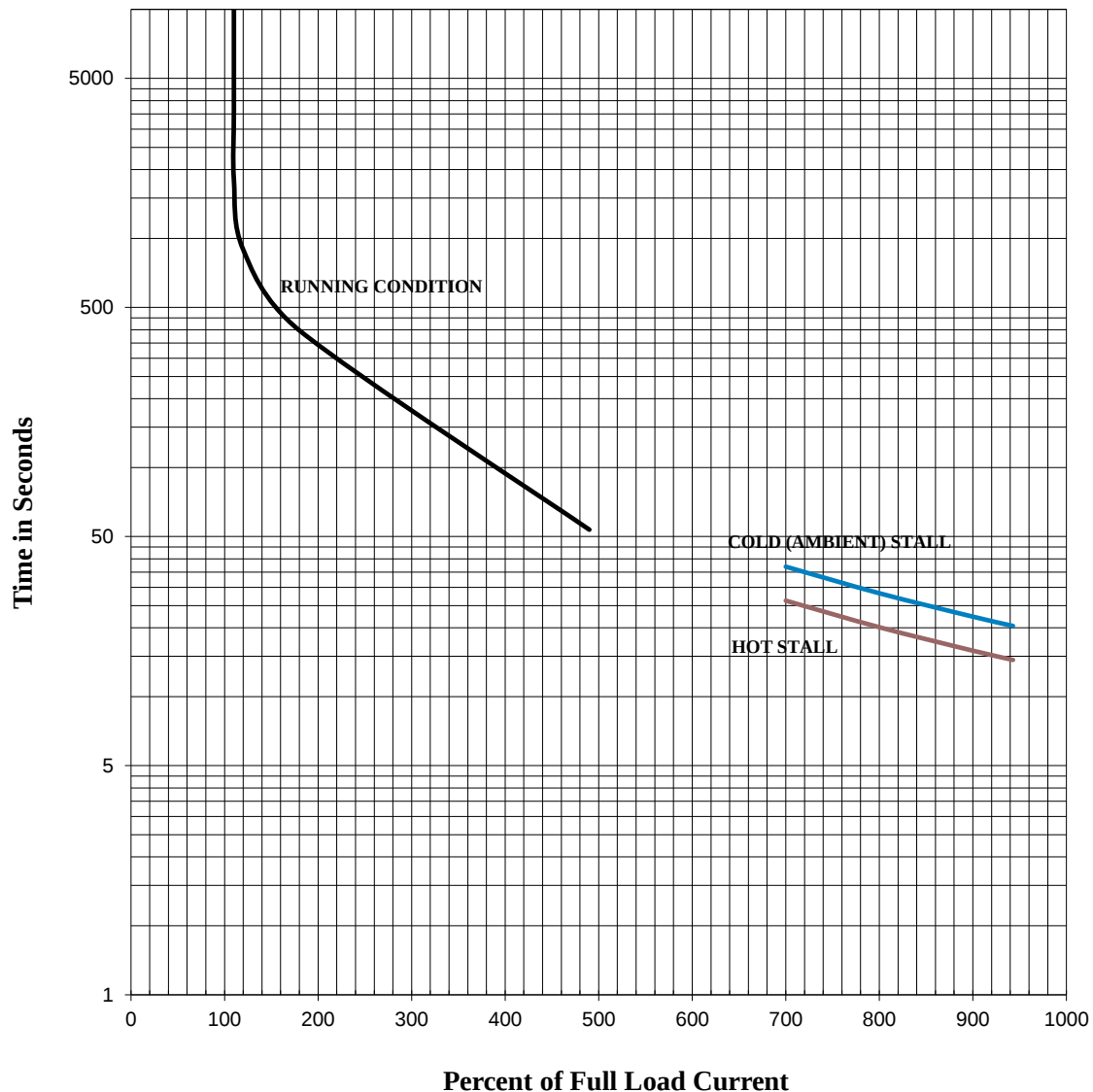
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y112SDMV7GS-P			FLAmps:	3.6/2.1
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2900	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)



Comments: PROJECT -

D.E.Curve #: GH2Y11 (1.1kW)

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TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 80M	ENCL: TEFC	FLAMPS: 3.8/2.2	FLRPM: 2870
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y112SDMV7GS-P		kW: 1.1	
NOM. EFF.: 82.7	MIN. EFF.: -	cosØ 0.89	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 31/18.0	FULL LOAD (lb-ft.): 2.7	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 300	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 415	

EFFICIENCY	POWER FACTOR
FULL LOAD: 83.6	FULL LOAD: 89.9
3/4 LOAD: 84.2	3/4 LOAD: 85.9
1/2 LOAD: 82.2	1/2 LOAD: 77.2

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).
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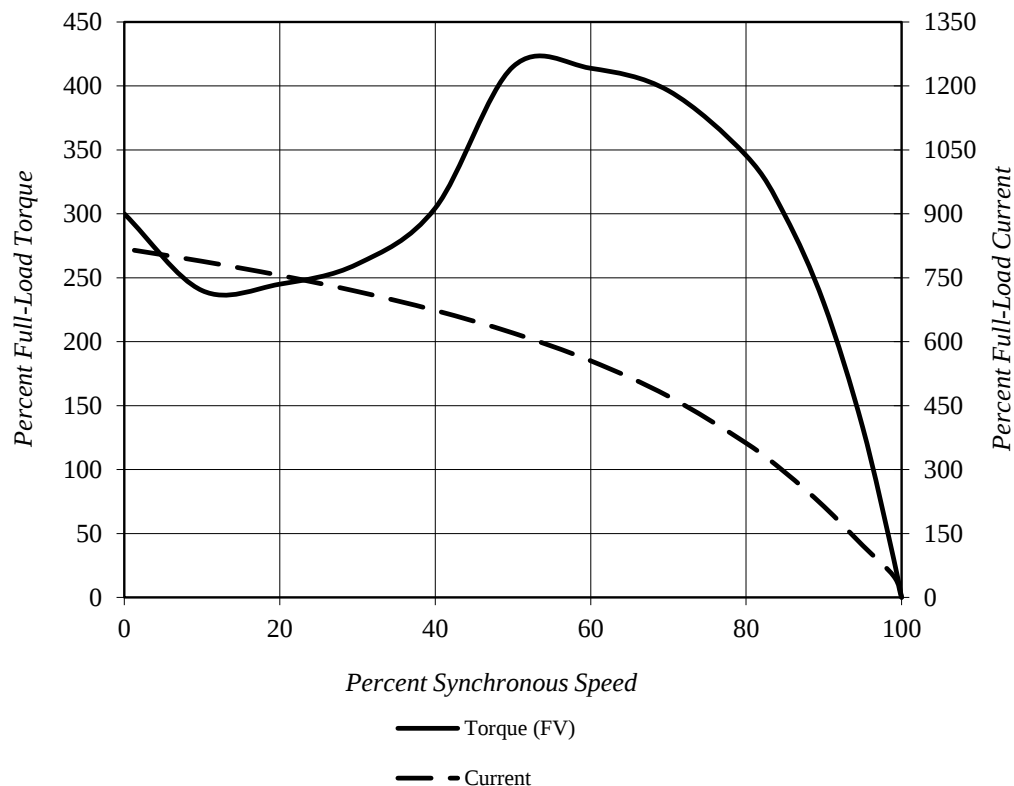
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y112SDMV7GS-P			FLAmps:	3.8/2.2
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2870	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)

Locked Rotor Amps:	31/18.0 A	Load Type:	N/A
Locked Rotor Torque:	300%	Starting at:	N/A
Breakdown Torque:	415%	Accel. Time:	N/A
Rated Torque:	2.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y11 (1.1kW)

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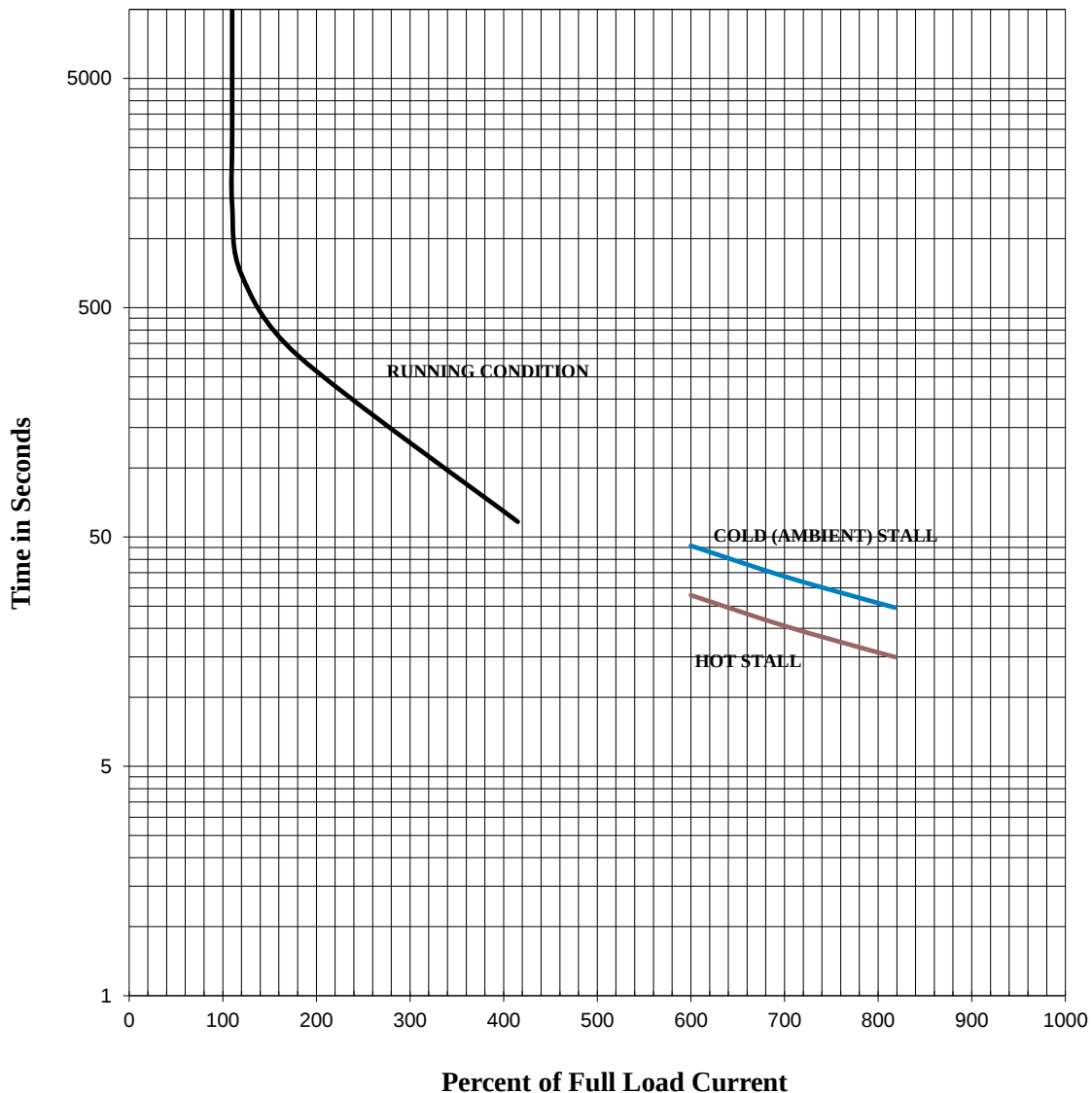
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y112SDMV7GS-P			FLAmps:	3.8/2.2
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	2870	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)



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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 1.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 80M	ENCL: TEFC	FLAMPS: 1.8	FLRPM: 3505
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: Y112SDMV7GS-P		kW: 1.1	
NOM. EFF.: 84.0	MIN. EFF.: -	P.F.: 85.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 21	FULL LOAD (lb-ft.): 2.2	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 410	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 550	

EFFICIENCY	POWER FACTOR
FULL LOAD: 87.3	FULL LOAD: 85.8
3/4 LOAD: 86.2	3/4 LOAD: 80.6
1/2 LOAD: 82.6	1/2 LOAD: 70.1

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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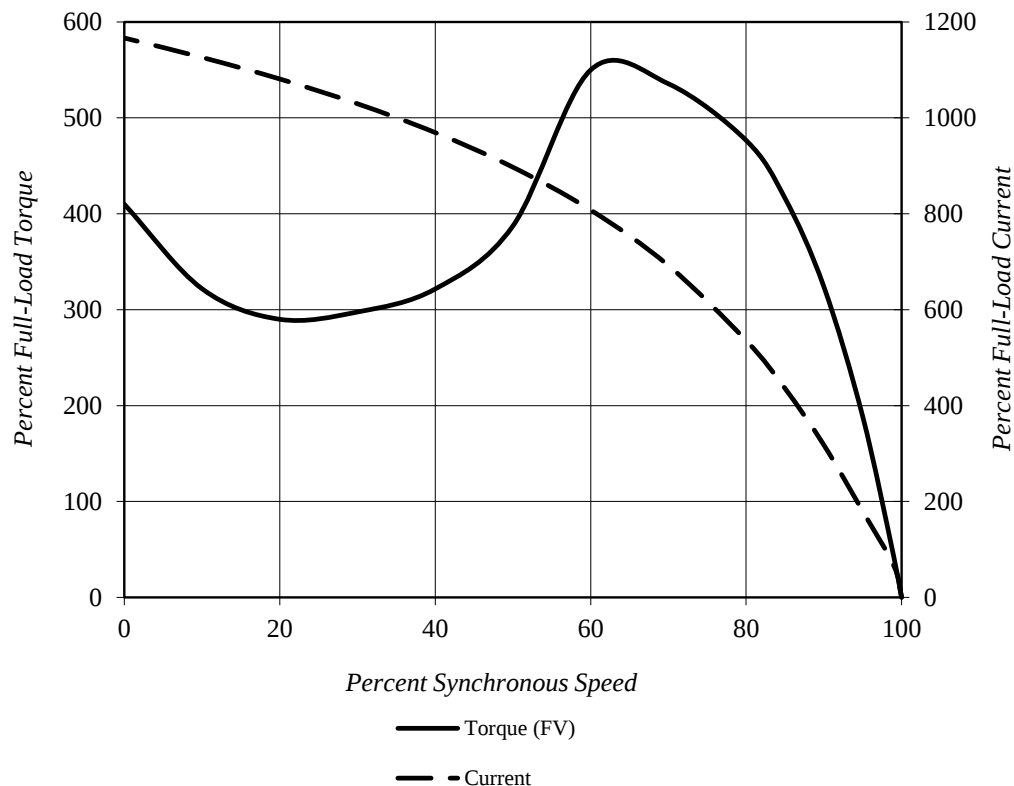
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y112SDMV7GS-P			FLAmps:	1.8
Enclosure:	TEFC	Voltage:	460 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1.5	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	3505	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)

Locked Rotor Amps:	21 A	Load Type:	N/A
Locked Rotor Torque:	410%	Starting at:	N/A
Breakdown Torque:	550%	Accel. Time:	N/A
Rated Torque:	2.2 lb-ft		

Design Values



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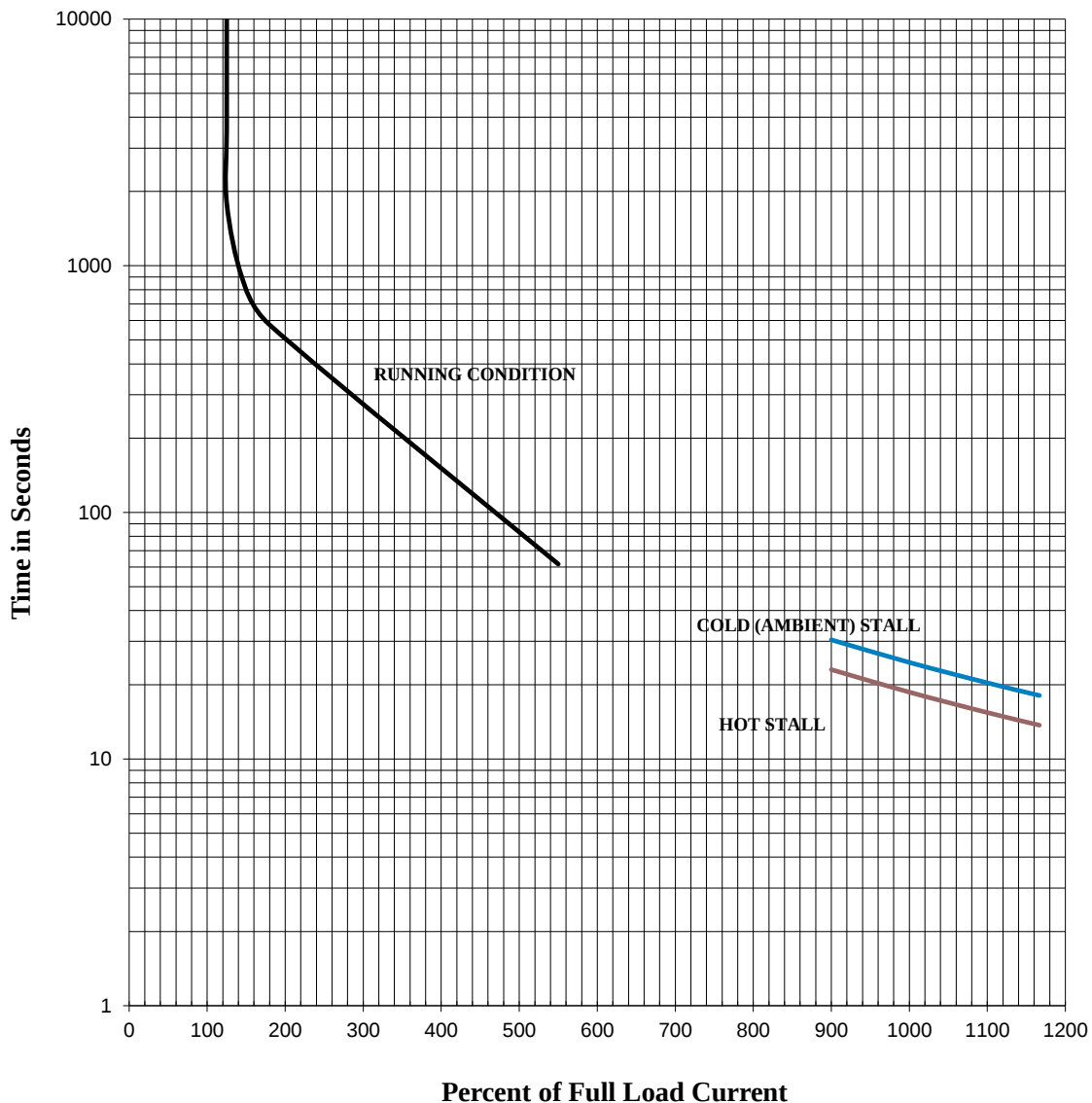
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y112SDMV7GS-P			FLAmps:	1.8
Enclosure:	TEFC	Voltage:	460 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1.5	Rotor Inertia:	0.05 lb-ft ²	Date:	12/26/2019
FLRPM:	3505	Load Inertia:	N/A	File:	GH2Y11 (1.1kW)



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