

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: 90L	ENCL: TEFC	FLAMPS: 4.9/2.8	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y116SDMV7KS-PL		kW: 1.1	
NOM. EFF.: 81.0	MIN. EFF.: -	cosØ 0.64	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 38/22	FULL LOAD (lb-ft.): 8.2	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 395	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 425	

EFFICIENCY	POWER FACTOR
FULL LOAD: 87.2	FULL LOAD: 64.5
3/4 LOAD: 86.8	3/4 LOAD: 58.0
1/2 LOAD: 83.9	1/2 LOAD: 47.0

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: 6/25/2020

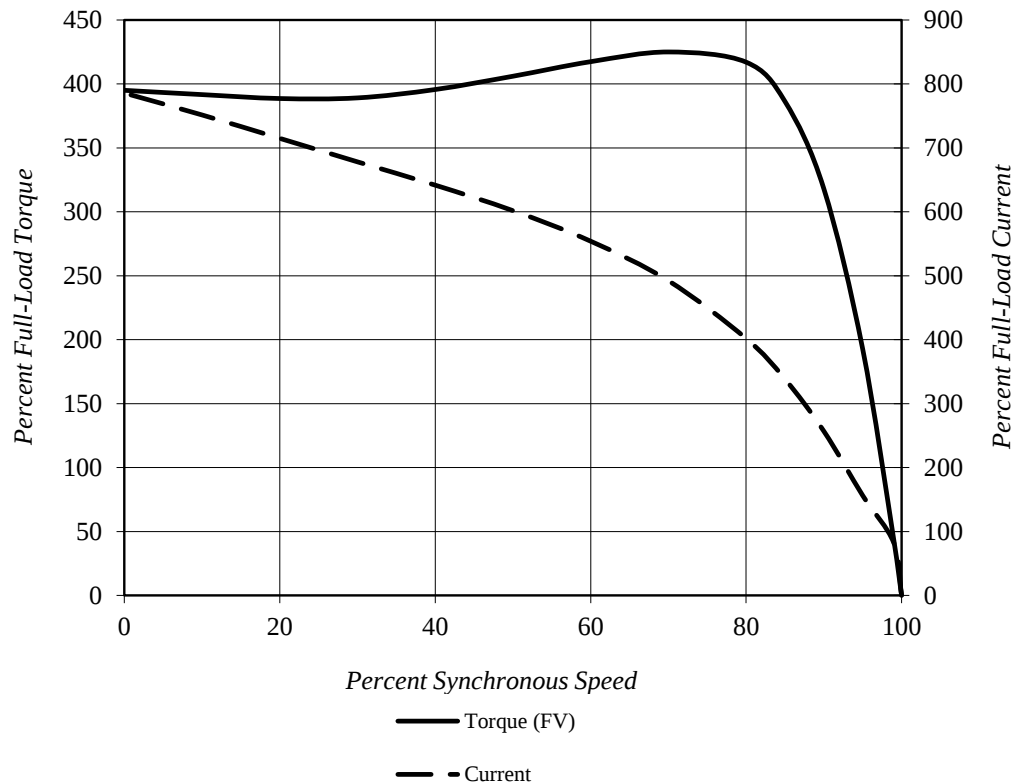
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y116SDMV7KS-PL			FLAmps:	4.9/2.8
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)

Locked Rotor Amps:	38/22 A	Load Type:	N/A
Locked Rotor Torque:	395%	Starting at:	N/A
Breakdown Torque:	425%	Accel. Time:	N/A
Rated Torque:	8.2 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

Prepared by: Zichao Xie

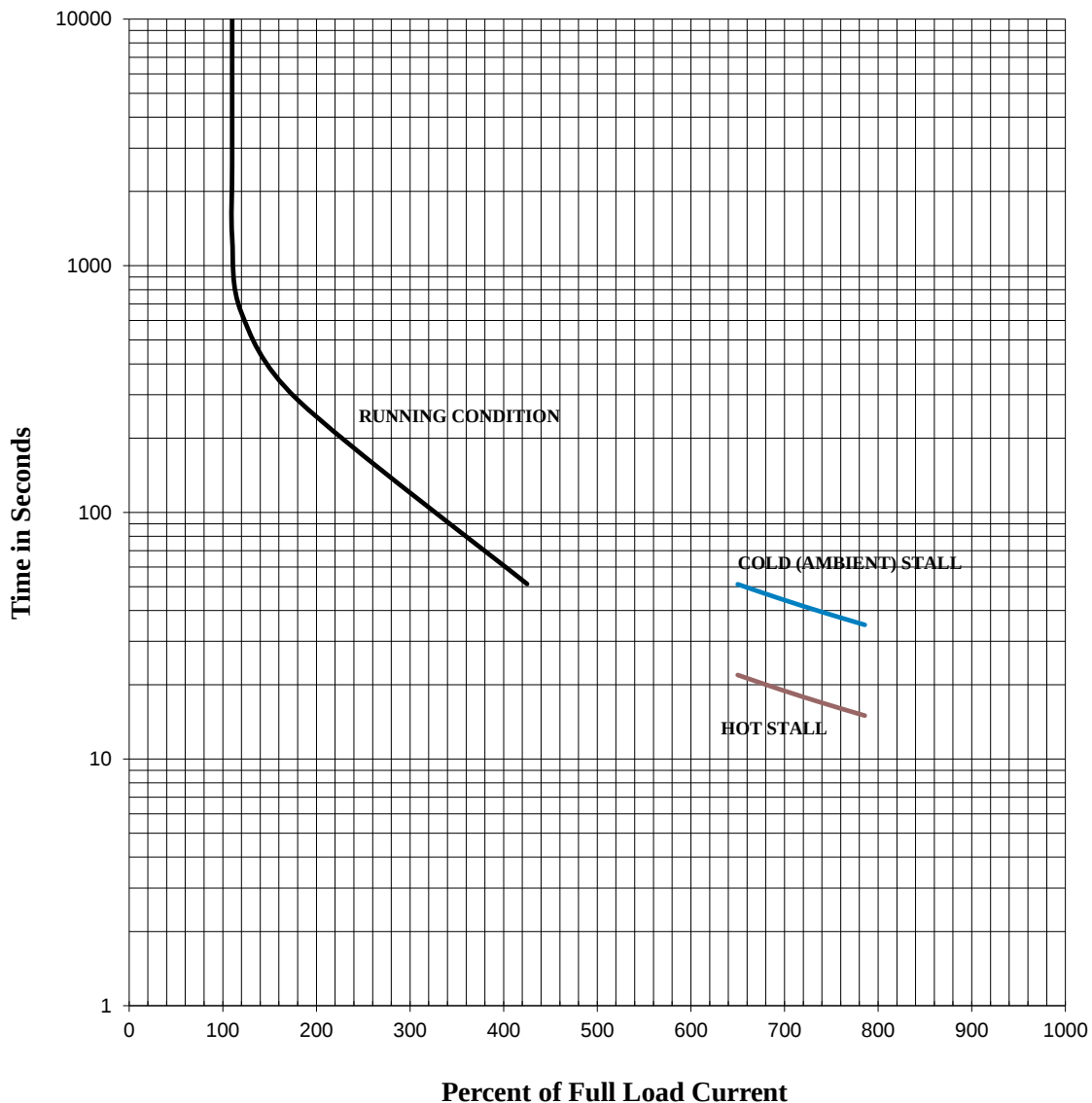
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y116SDMV7KS-PL			FLAmps:	4.9/2.8
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)



Comments: PROJECT -

D.E.Curve #: GH6Y11 (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: 1000
FRAME: 90L	ENCL: TEFC	FLAMPS: 4.8/2.8	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y116SDMV7KS-PL		kW: 1.1	
NOM. EFF.: 81.0	MIN. EFF.: -	cosØ 0.63	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 40/23	FULL LOAD (lb-ft.): 8.1	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 435	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 455	

EFFICIENCY	POWER FACTOR
FULL LOAD: 87.4	FULL LOAD: 63.0
3/4 LOAD: 86.6	3/4 LOAD: 56.0
1/2 LOAD: 83.3	1/2 LOAD: 44.9

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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DATE: 6/25/2020

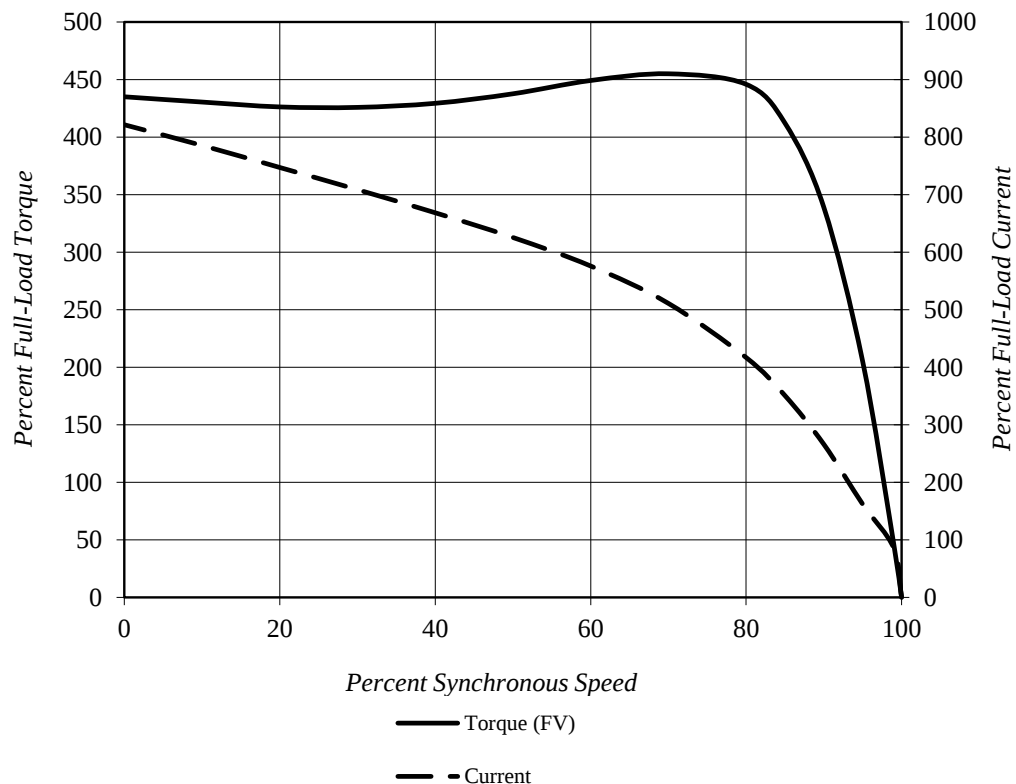
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y116SDMV7KS-PL			FLAmps:	4.8/2.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)

Locked Rotor Amps:	40/23 A	Load Type:	N/A
Locked Rotor Torque:	435%	Starting at:	N/A
Breakdown Torque:	455%	Accel. Time:	N/A
Rated Torque:	8.1 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

Prepared by: Zichao Xie

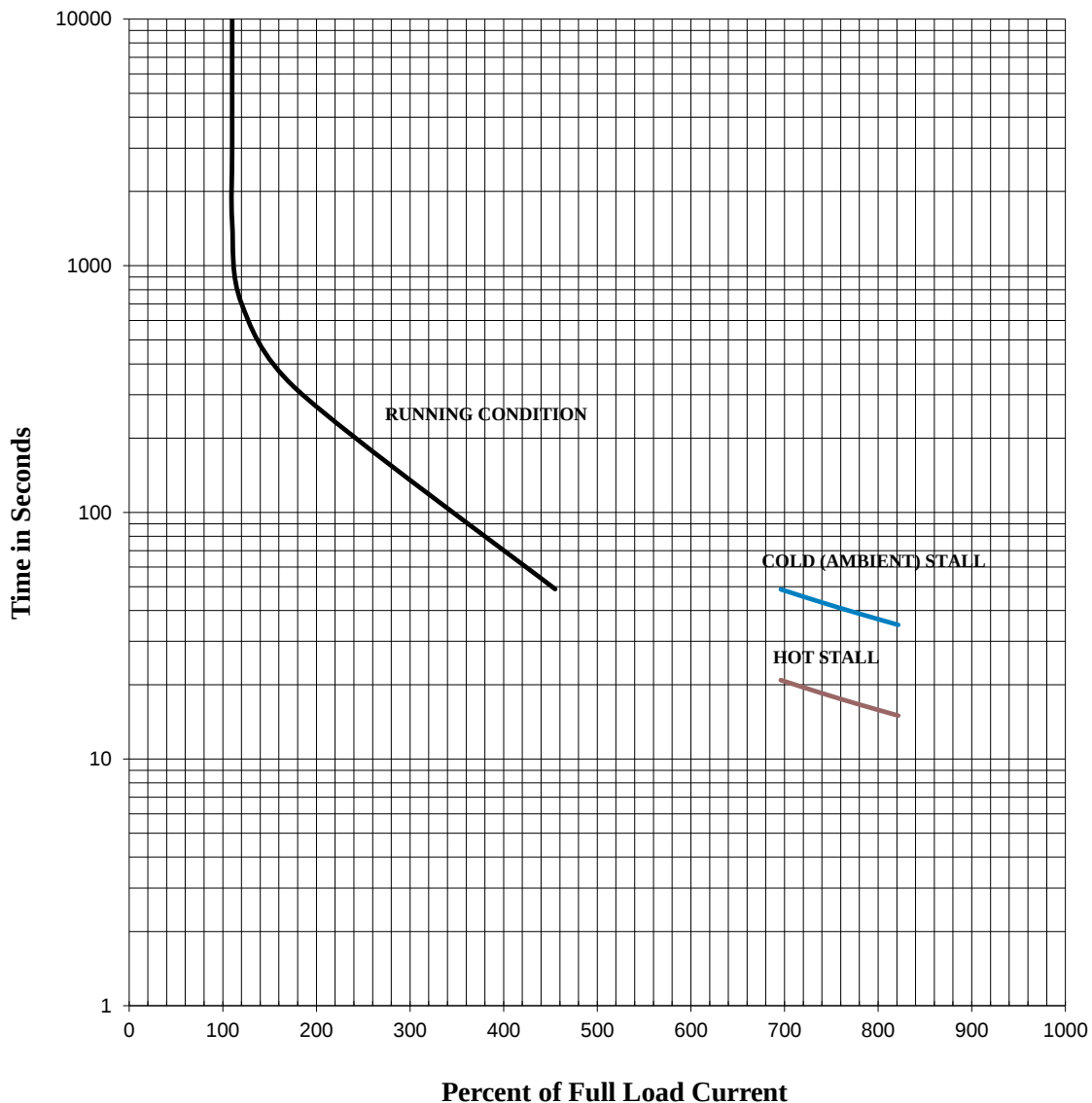
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y116SDMV7KS-PL			FLAmps:	4.8/2.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

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Checked by:

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.0/2.9	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y116SDMV7KS-PL		kW: 1.1	
NOM. EFF.: 81.0	MIN. EFF.: -	cosØ 0.66	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 36/21	FULL LOAD (lb-ft.): 8.2	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 345	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 385	

EFFICIENCY	POWER FACTOR
FULL LOAD: 86.8	FULL LOAD: 66.4
3/4 LOAD: 86.9	3/4 LOAD: 60.6
1/2 LOAD: 84.6	1/2 LOAD: 50.0

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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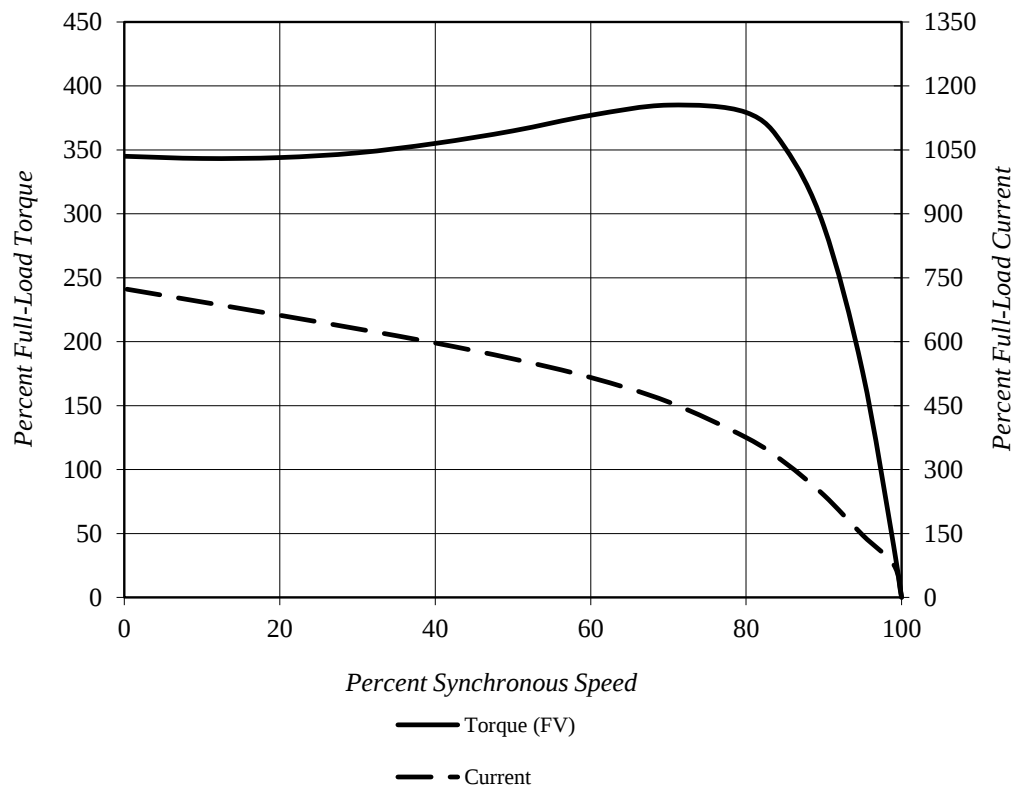
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y116SDMV7KS-PL			FLAmps:	5.0/2.9
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)

Locked Rotor Amps:	36/21 A	Load Type:	N/A
Locked Rotor Torque:	345%	Starting at:	N/A
Breakdown Torque:	385%	Accel. Time:	N/A
Rated Torque:	8.2 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

Prepared by: Zichao Xie

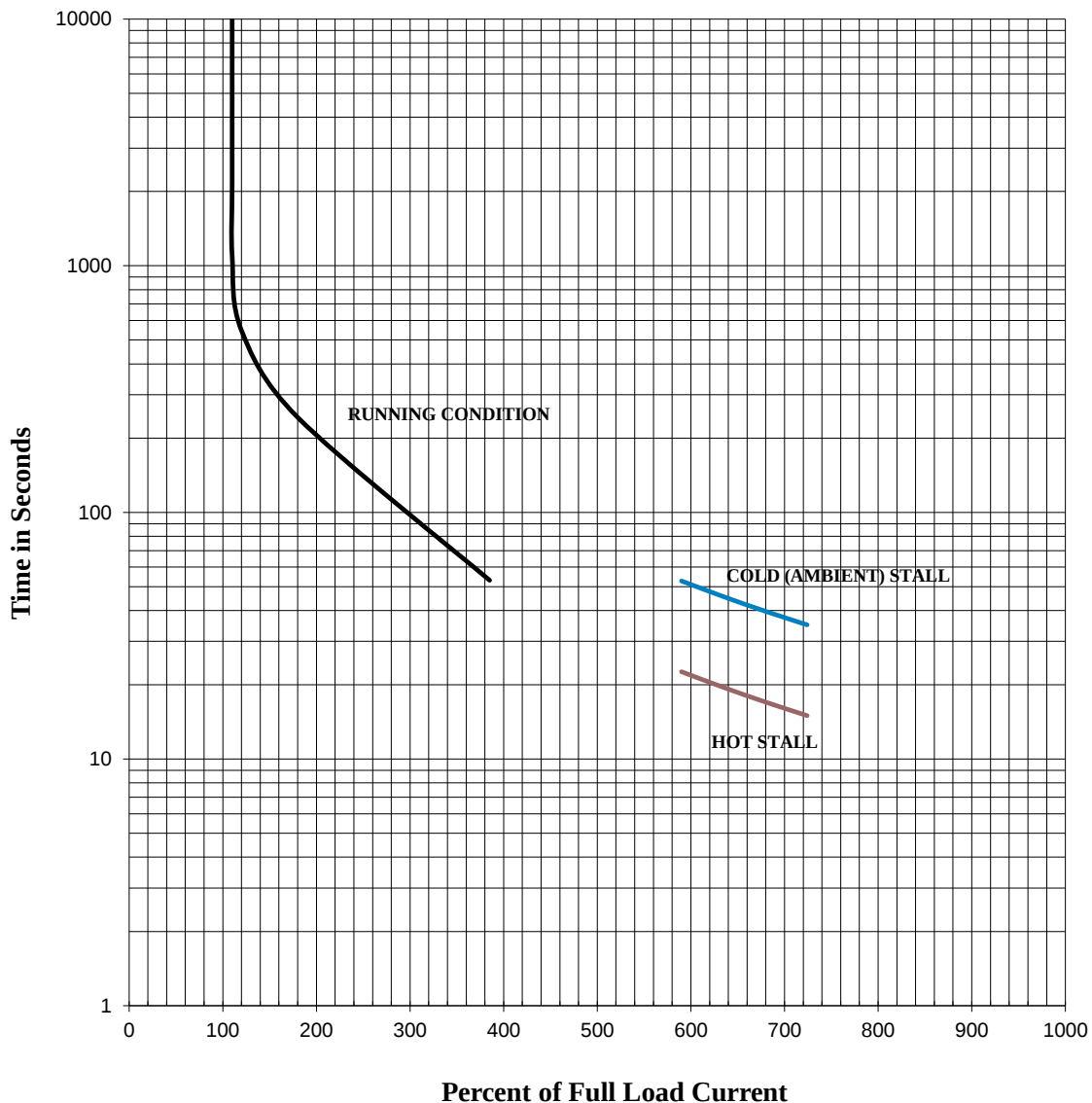
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y116SDMV7KS-PL			FLAmps:	5.0/2.9
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.1	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)



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D.E.Curve #: GH6Y11 (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: 1200
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.6	FLRPM: 1175
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: N	DUTY: Cont.
MODEL No.: Y116SDMV7KS-PL		kW: 1.1	
NOM. EFF.: 87.5	MIN. EFF.: -	P.F.: 59.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 22	FULL LOAD (lb-ft.): 6.7	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 305	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 455	

EFFICIENCY	POWER FACTOR
FULL LOAD: 87.8	FULL LOAD: 59.5
3/4 LOAD: 86.6	3/4 LOAD: 52.7
1/2 LOAD: 82.9	1/2 LOAD: 42.1

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: 6/25/2020

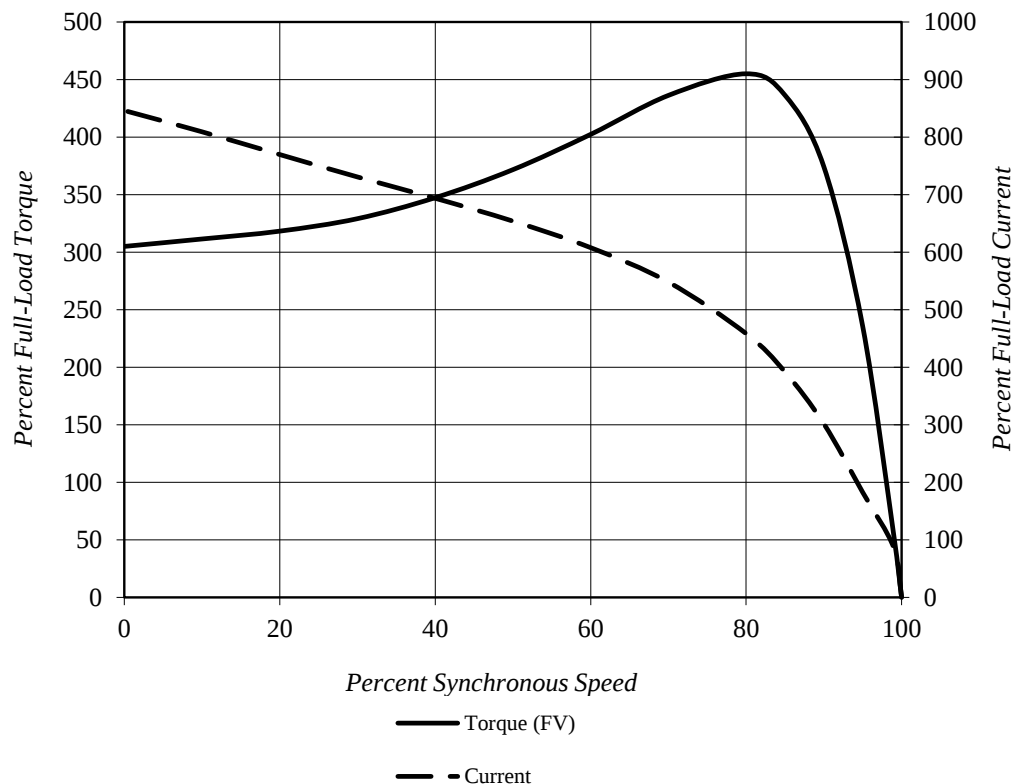
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y116SDMV7KS-PL			FLAmps:	2.6
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1.5	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)

Locked Rotor Amps:	22 A	Load Type:	N/A
Locked Rotor Torque:	305%	Starting at:	N/A
Breakdown Torque:	455%	Accel. Time:	N/A
Rated Torque:	6.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

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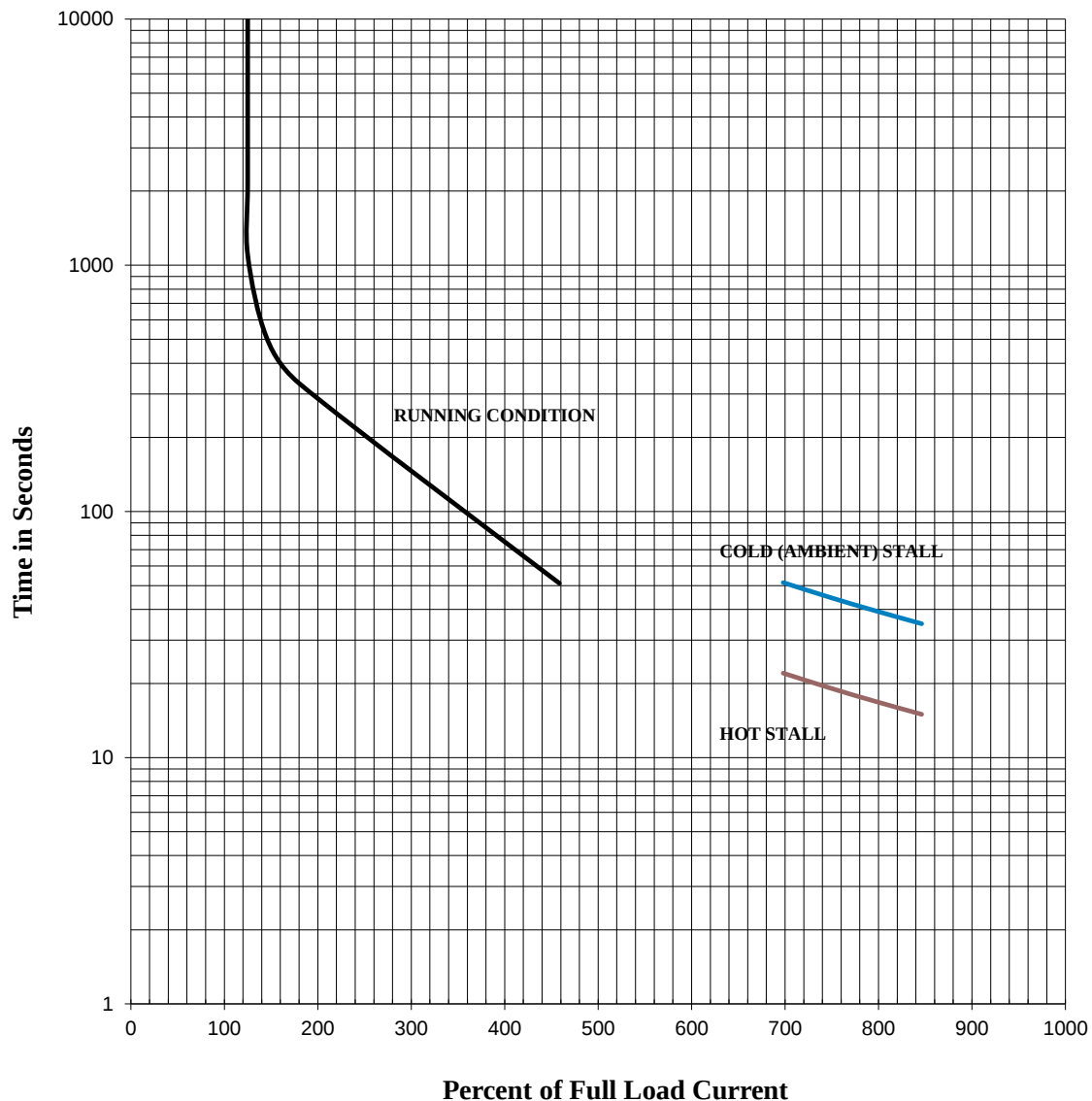
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y116SDMV7KS-PL			FLAmps:	2.6
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1.5	Rotor Inertia:	0.34 lb-ft ²	Date:	6/25/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y11 (1.1kW)



Comments: PROJECT -

D.E.Curve #: GH6Y11 (1.1kW)

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