

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: 1500
FRAME: 112M	ENCL: TEFC	FLAMPS: 14.4/8.3	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7HS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 128/74	FULL LOAD (lb-ft.): 19.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 365	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 420	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.9	FULL LOAD: 77.4
3/4 LOAD: 89.9	3/4 LOAD: 71.8
1/2 LOAD: 88.2	1/2 LOAD: 60.6

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).
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CERTIFIED BY: Zichao Xie

DATE: 10/18/2019

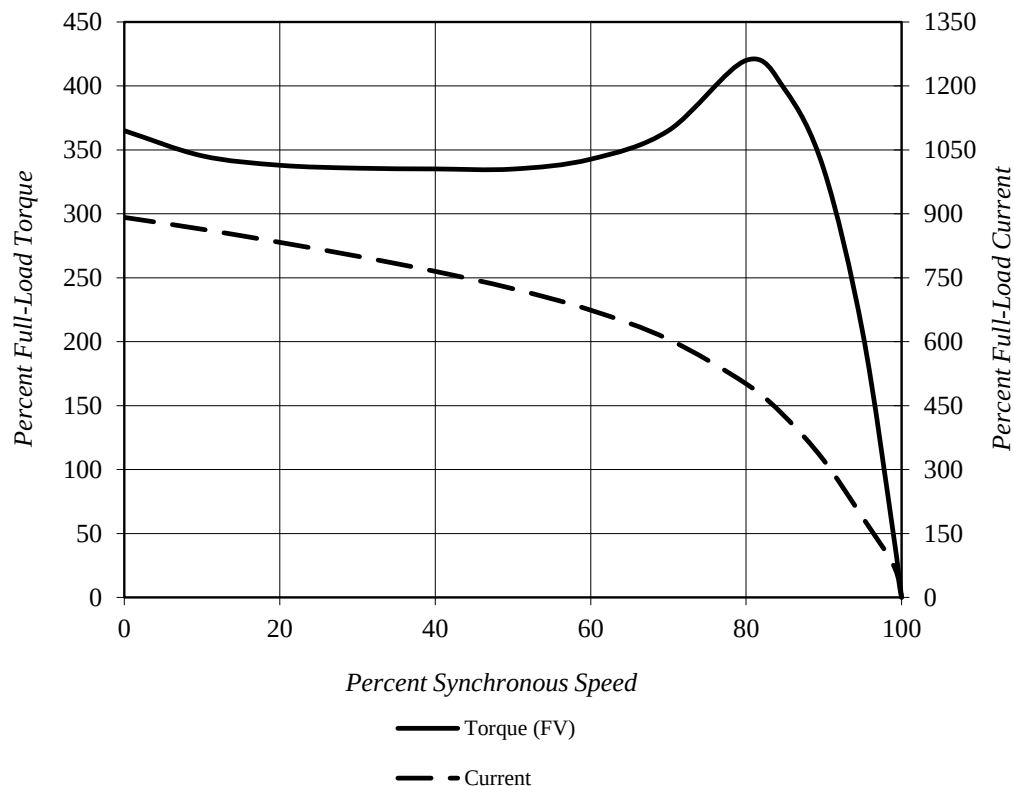
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0044SDMV7HS-PL			FLAmps:	14.4/8.3
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4004 (4kW)

Locked Rotor Amps:	128/74 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	420%	Accel. Time:	N/A
Rated Torque:	19.4 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4004 (4kW)

Prepared by: Zichao Xie

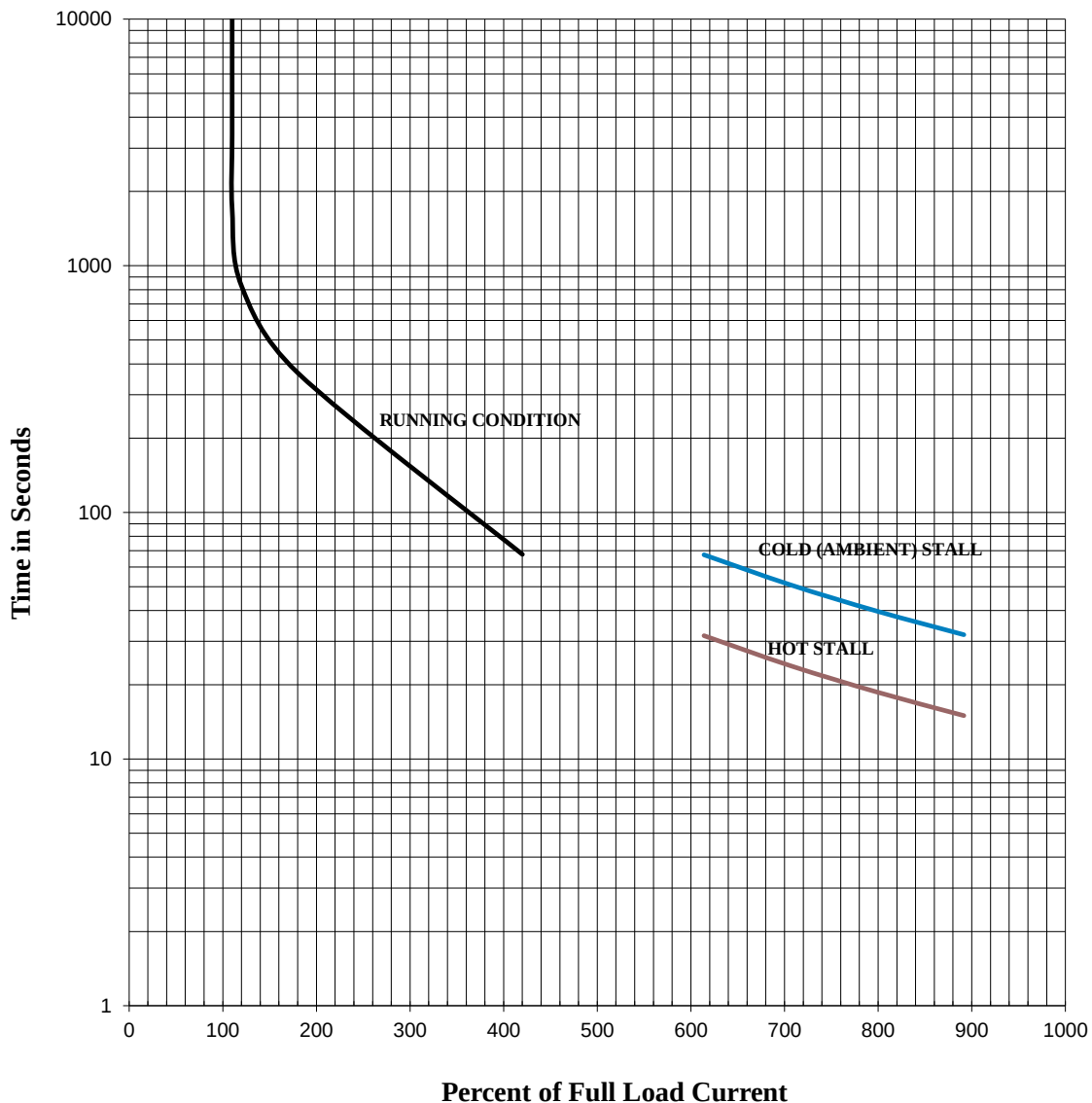
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0044SDMV7HS-PL			FLAmps:	14.4/8.3
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4004 (4kW)



Comments: PROJECT -

D.E.Curve #: GH4004 (4kW)

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: 1500
FRAME: 112M	ENCL: TEFC	FLAMPS: 14.4/8.3	FLRPM: 1460
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7HS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.74	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 133/77	FULL LOAD (lb-ft.): 19.4	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 400	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 450	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.2	FULL LOAD: 74.5
3/4 LOAD: 89.9	3/4 LOAD: 67.9
1/2 LOAD: 88.2	1/2 LOAD: 59.7

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: 10/18/2019

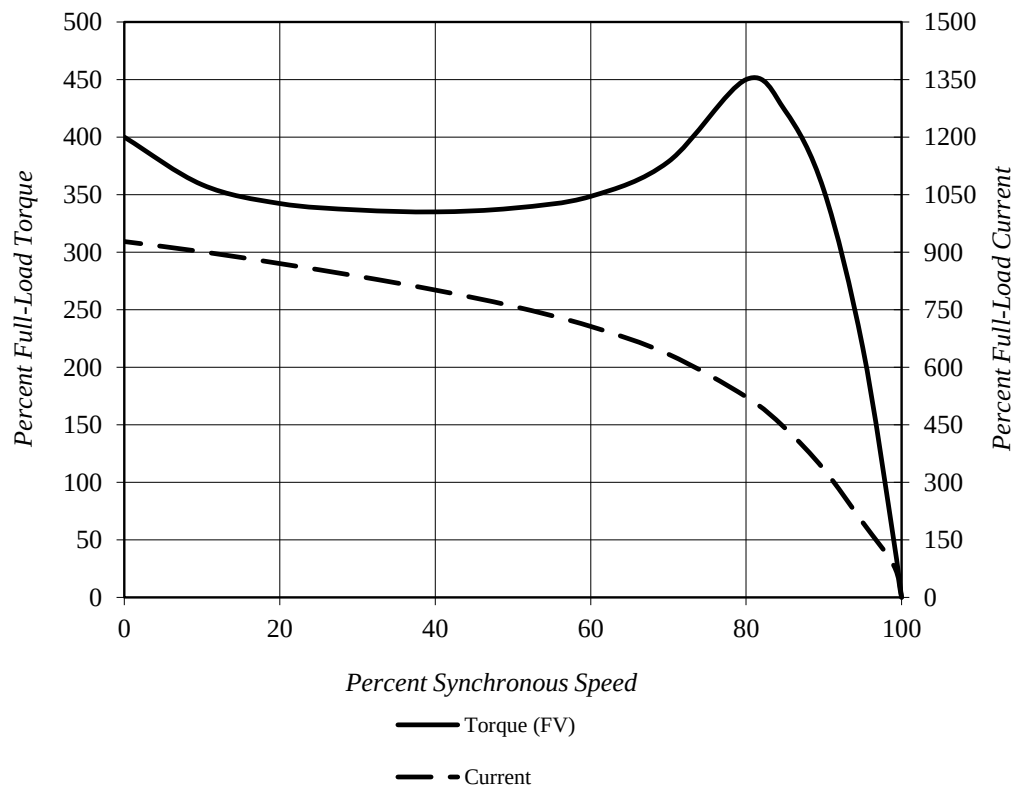
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0044SDMV7HS-PL			FLAmps:	14.4/8.3
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4004 (4kW)

Locked Rotor Amps:	133/77 A	Load Type:	N/A
Locked Rotor Torque:	400%	Starting at:	N/A
Breakdown Torque:	450%	Accel. Time:	N/A
Rated Torque:	19.4 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4004 (4kW)

Prepared by: Zichao Xie

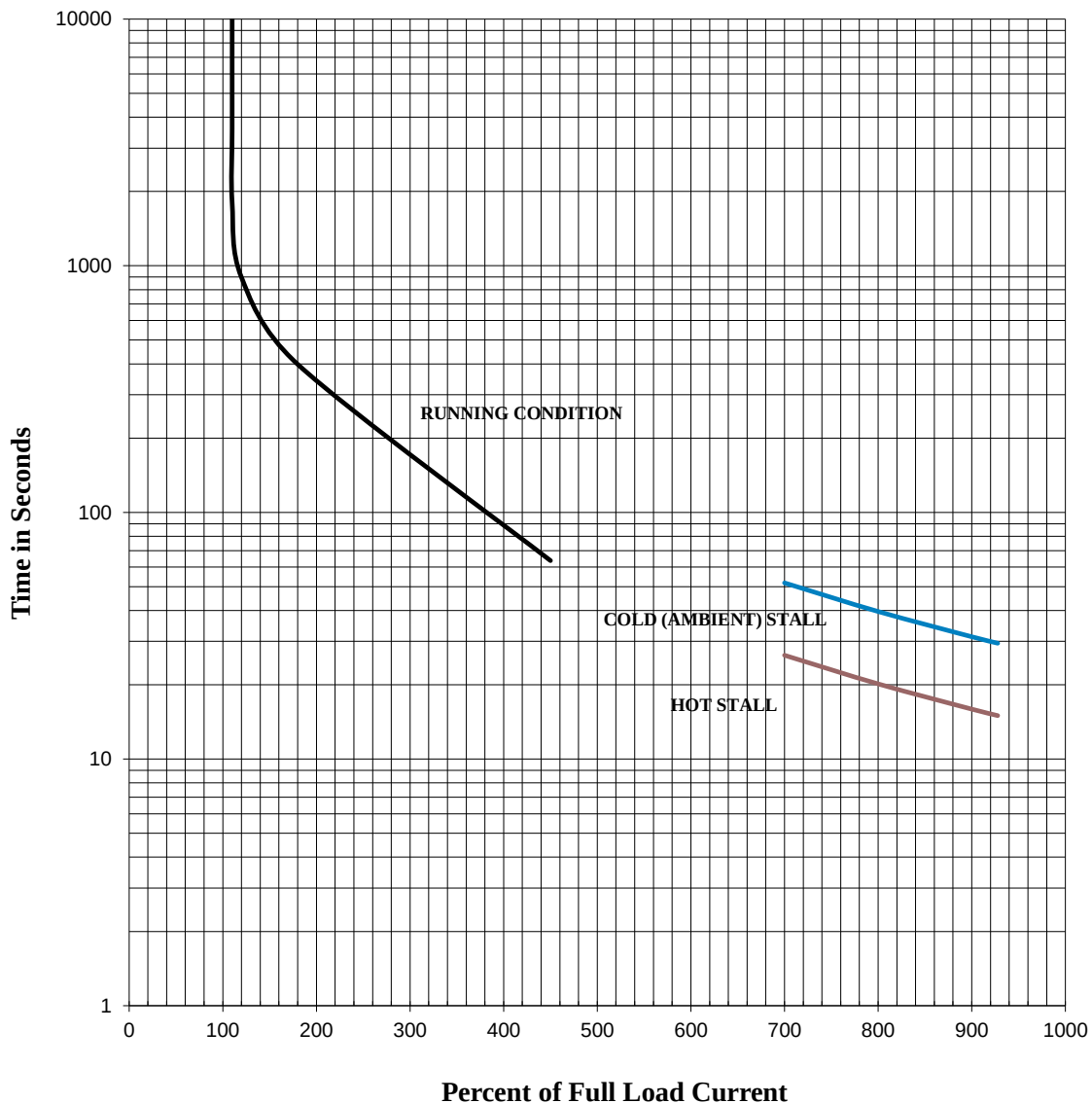
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0044SDMV7HS-PL			FLAmps:	14.4/8.3
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1460	Load Inertia:	N/A	File:	GH4004 (4kW)



Comments: PROJECT -

D.E.Curve #: GH4004 (4kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 112M	ENCL: TEFC	FLAMPS: 14.5/8.4	FLRPM: 1455
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0044SDMV7HS-PL		kW: 4	
NOM. EFF.: 88.6	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 120/69	FULL LOAD (lb-ft.): 19.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 320	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 380	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.5	FULL LOAD: 80.5
3/4 LOAD: 89.8	3/4 LOAD: 76.3
1/2 LOAD: 88.6	1/2 LOAD: 66.9

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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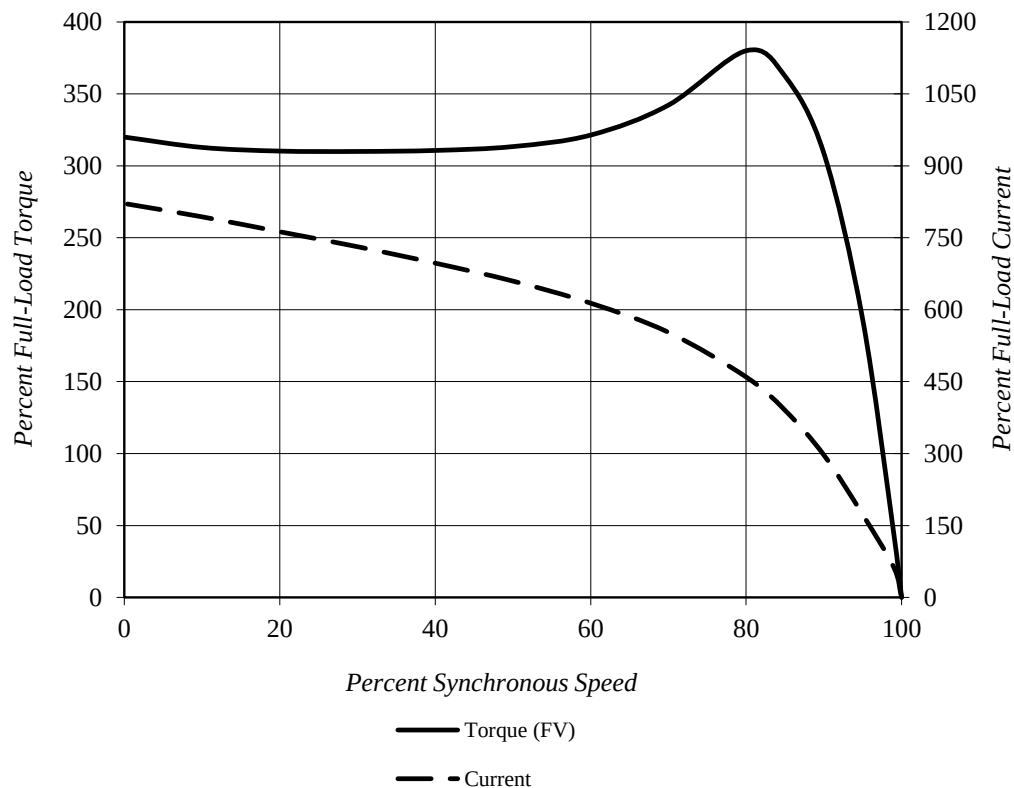
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0044SDMV7HS-PL			FLAmps:	14.5/8.4
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1455	Load Inertia:	N/A	File:	GH4004 (4kW)

Locked Rotor Amps:	120/69 A	Load Type:	N/A
Locked Rotor Torque:	320%	Starting at:	N/A
Breakdown Torque:	380%	Accel. Time:	N/A
Rated Torque:	19.5 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4004 (4kW)

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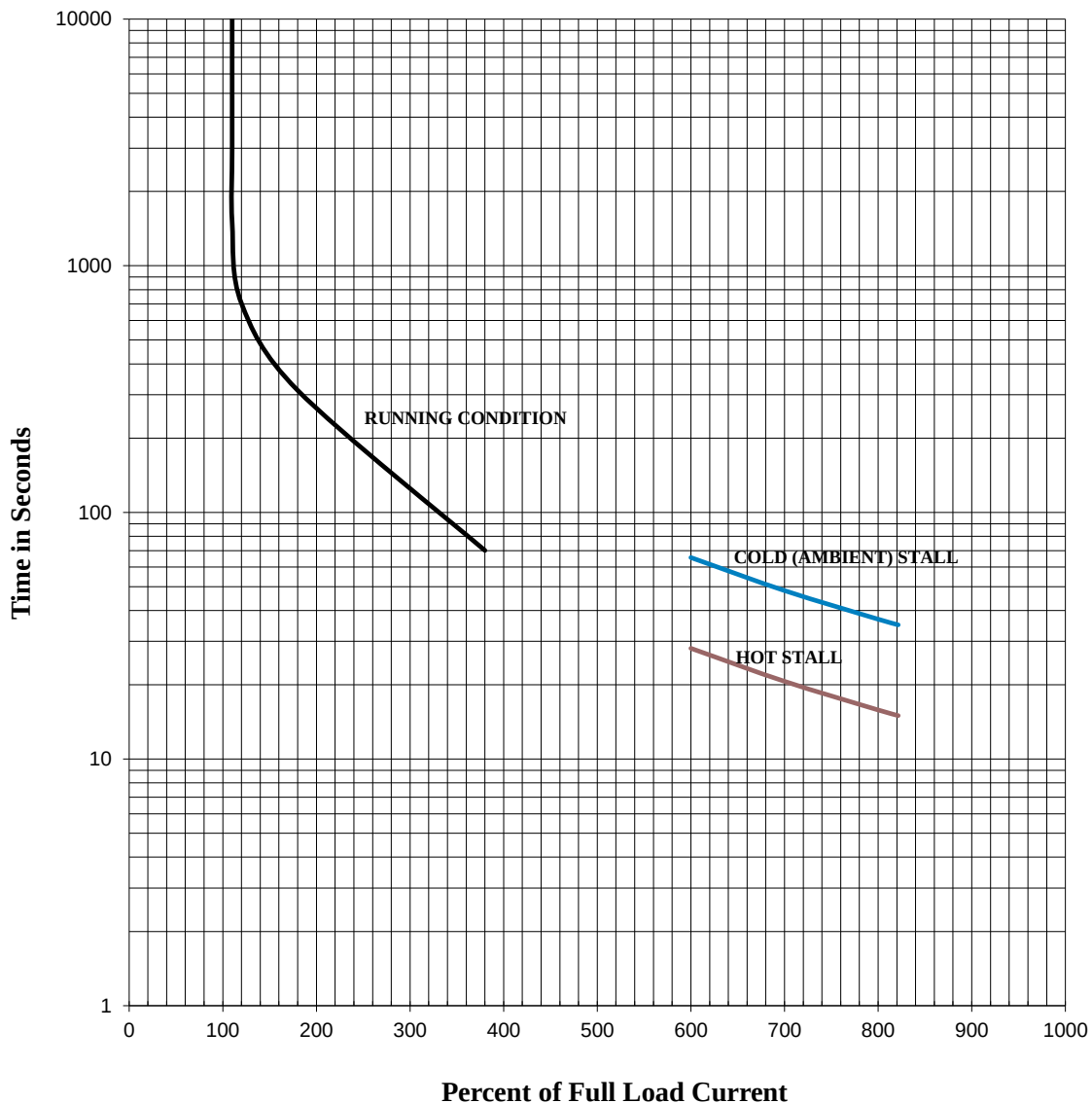
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0044SDMV7HS-PL			FLAmps:	14.5/8.4
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	4	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1455	Load Inertia:	N/A	File:	GH4004 (4kW)



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D.E.Curve #: GH4004 (4kW)

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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 5.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 112M	ENCL: TEFC	FLAMPS: 7.3	FLRPM: 1765
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: 0044SDMV7HS-PL		kW: 4	
NOM. EFF.: 89.5	MIN. EFF.: -	P.F.: 75.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 75	FULL LOAD (lb-ft.): 16.0	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 445	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 480	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.3	FULL LOAD: 75.6
3/4 LOAD: 90.7	3/4 LOAD: 69.9
1/2 LOAD: 88.4	1/2 LOAD: 58.8

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).
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DATE: 10/18/2019

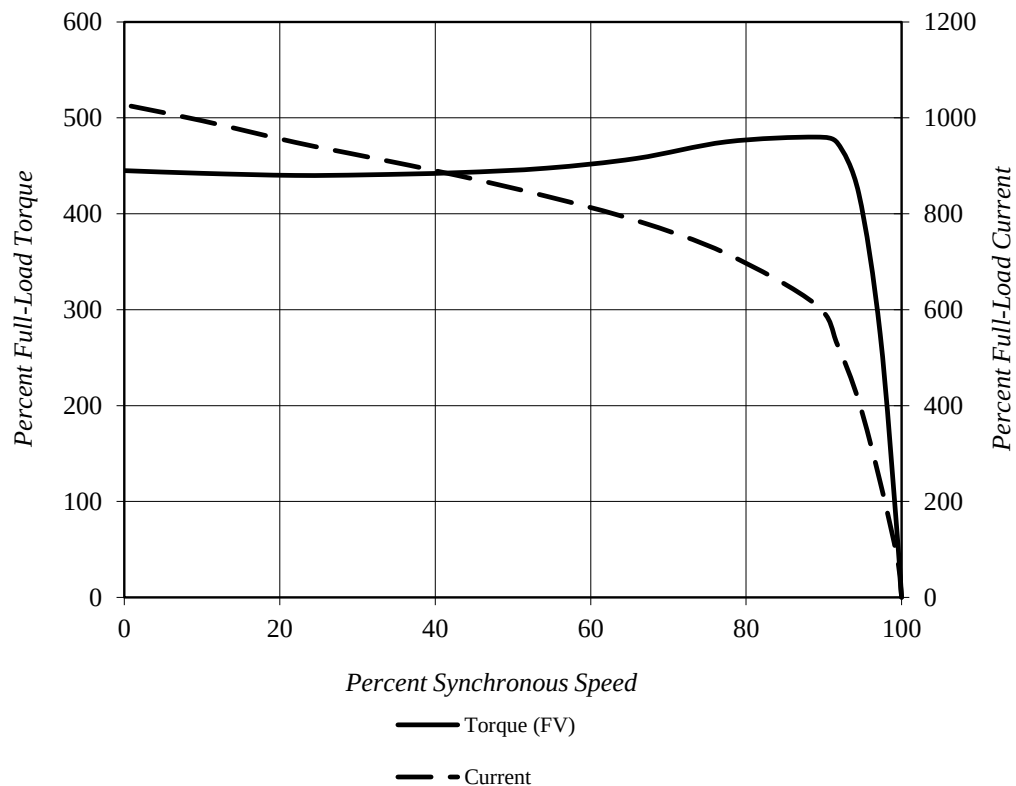
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0044SDMV7HS-PL			FLAmps:	7.3
Enclosure:	TEFC	Voltage:	460 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	5.5	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1765	Load Inertia:	N/A	File:	GH4004 (4kW)

Locked Rotor Amps:	75 A	Load Type:	N/A
Locked Rotor Torque:	445%	Starting at:	N/A
Breakdown Torque:	480%	Accel. Time:	N/A
Rated Torque:	16 lb-ft		

Design Values



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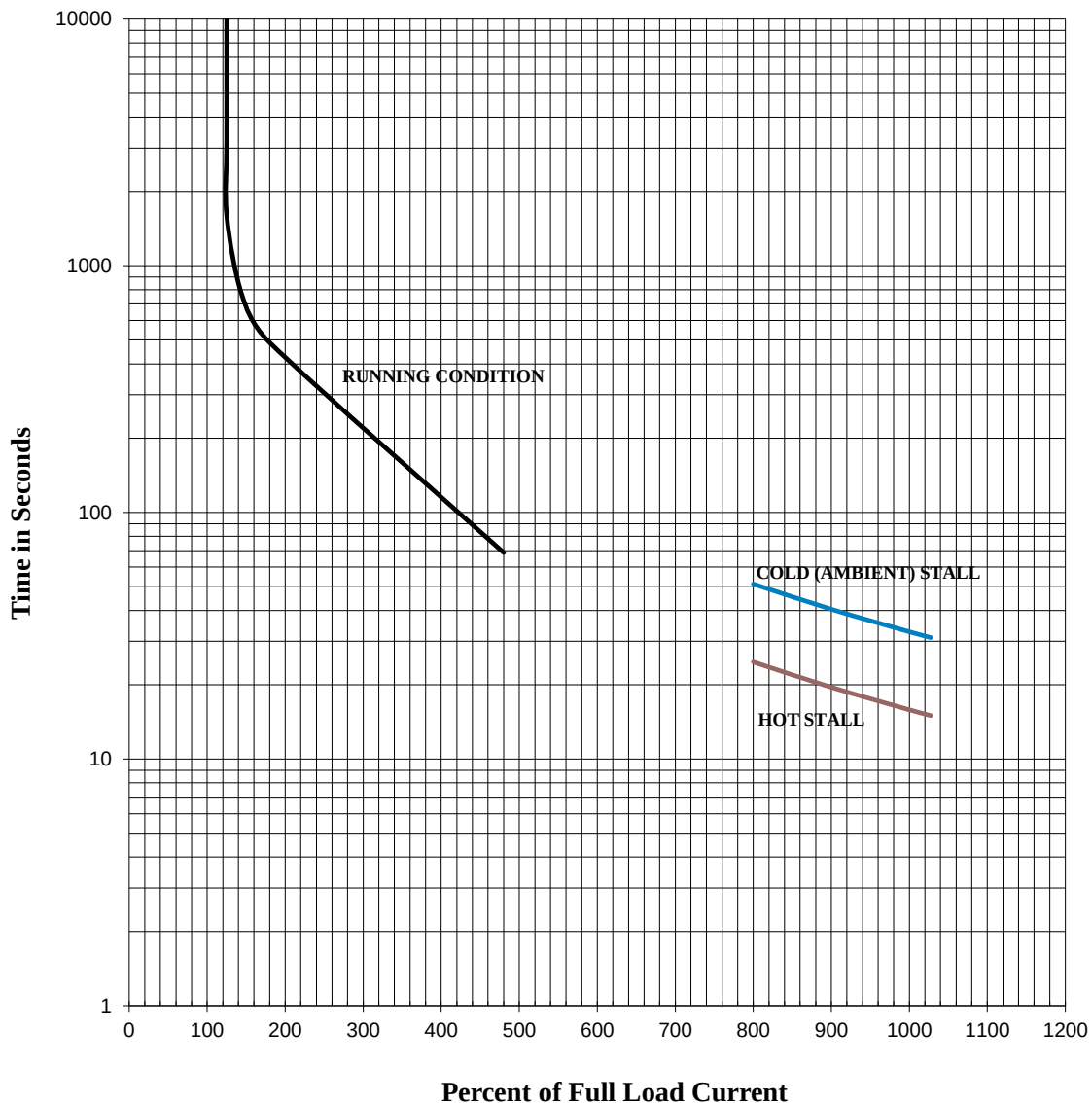
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0044SDMV7HS-PL			FLAmps:	7.3
Enclosure:	TEFC	Voltage:	460 V	Frame:	112M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	5.5	Rotor Inertia:	0.57 lb-ft ²	Date:	10/18/2019
FLRPM:	1765	Load Inertia:	N/A	File:	GH4004 (4kW)



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