

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: 200L	ENCL: TEFC	FLAMPS: 42	FLRPM: 980
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0226SDMW7FS-P		kW: 22	
NOM. EFF.: 92.2	MIN. EFF.: -	cosØ 0.81	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 287	FULL LOAD (lb-ft.): 158	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 335	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.0	FULL LOAD: 81.0
3/4 LOAD: 92.9	3/4 LOAD: 76.4
1/2 LOAD: 91.7	1/2 LOAD: 66.5

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: 9/14/2020

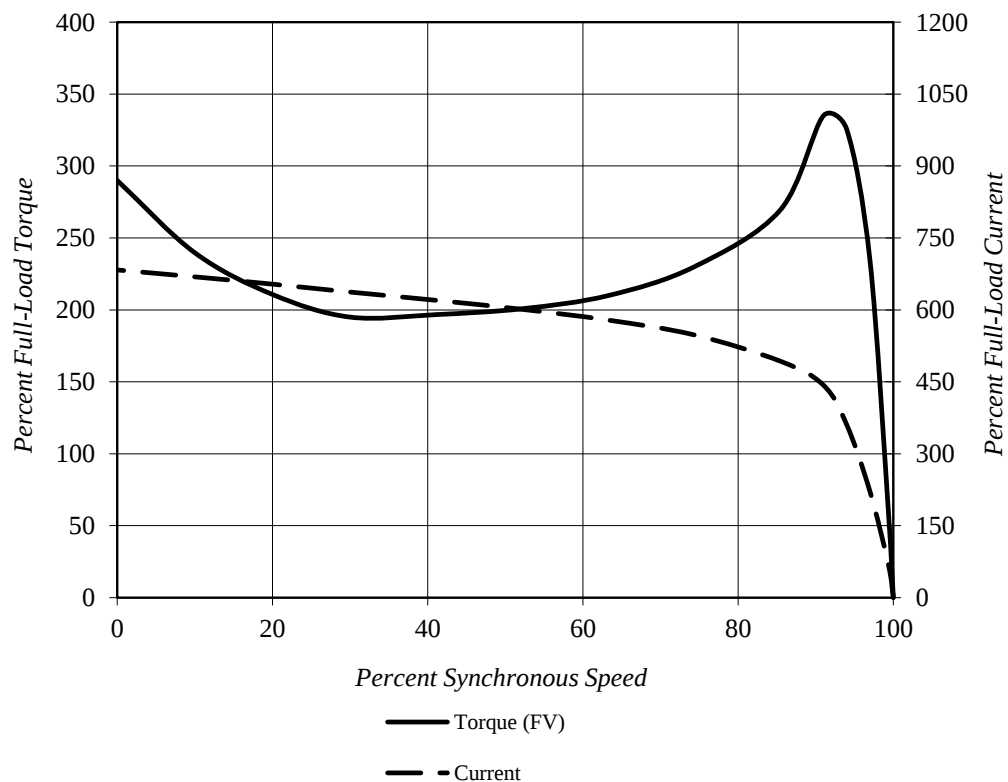
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0226SDMW7FS-P			FLAmps:	42
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	980	Load Inertia:	N/A	File:	GH6022 (22kW)

Locked Rotor Amps:	287 A	Load Type:	N/A
Locked Rotor Torque:	290%	Starting at:	N/A
Breakdown Torque:	335%	Accel. Time:	N/A
Rated Torque:	158 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6022 (22kW)

Prepared by: Zichao Xie

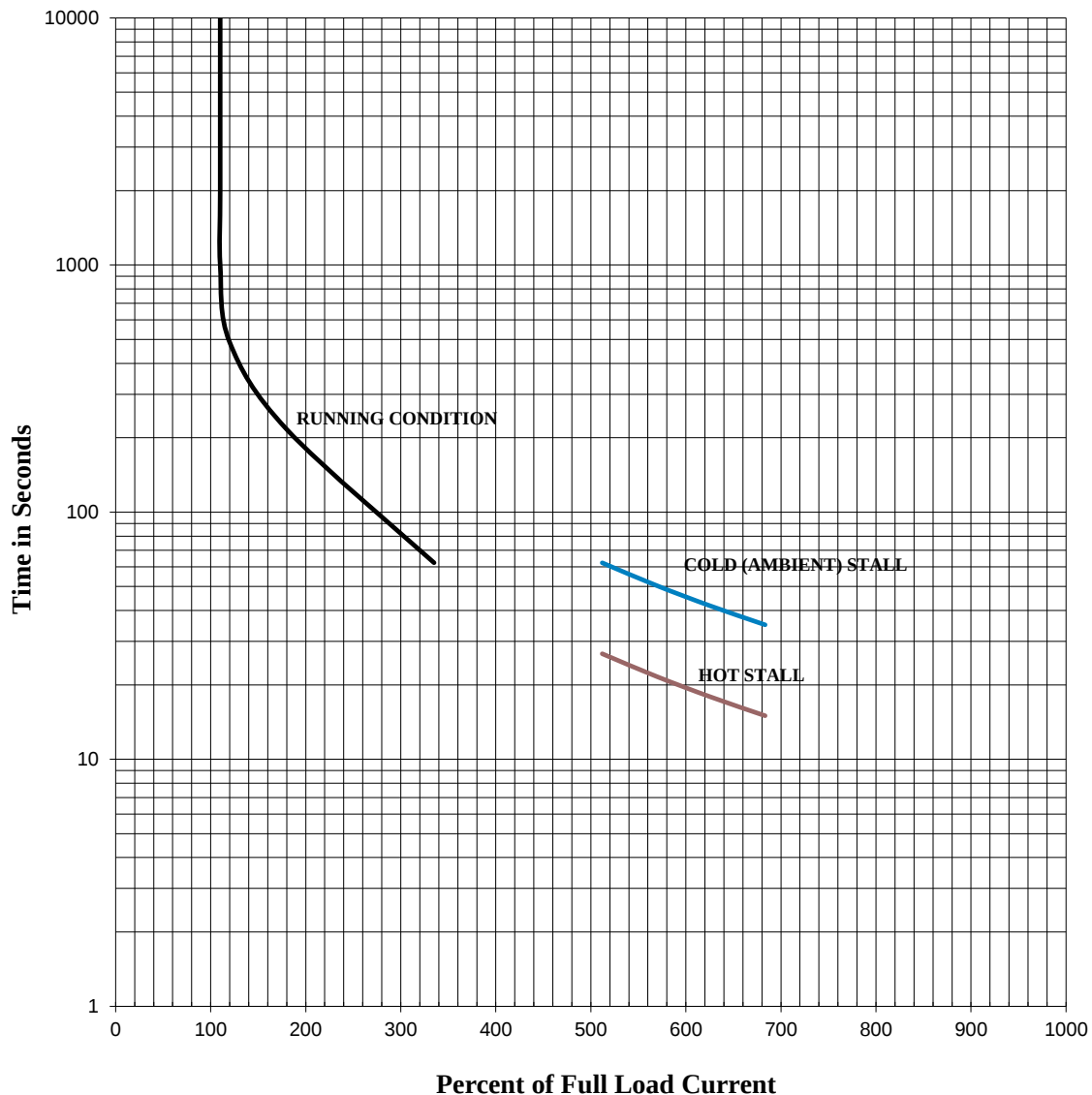
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0226SDMW7FS-P			FLAmps:	42
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	980	Load Inertia:	N/A	File:	GH6022 (22kW)



Comments: PROJECT -

D.E.Curve #: GH6022 (22kW)

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Checked by:

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 200L	ENCL: TEFC	FLAMPS: 41	FLRPM: 980
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0226SDMW7FS-P		kW: 22	
NOM. EFF.: 92.2	MIN. EFF.: -	cosØ 0.79	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 300	FULL LOAD (lb-ft.): 158	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 315	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 355	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.3	FULL LOAD: 79.7
3/4 LOAD: 93.0	3/4 LOAD: 74.4
1/2 LOAD: 91.6	1/2 LOAD: 63.7

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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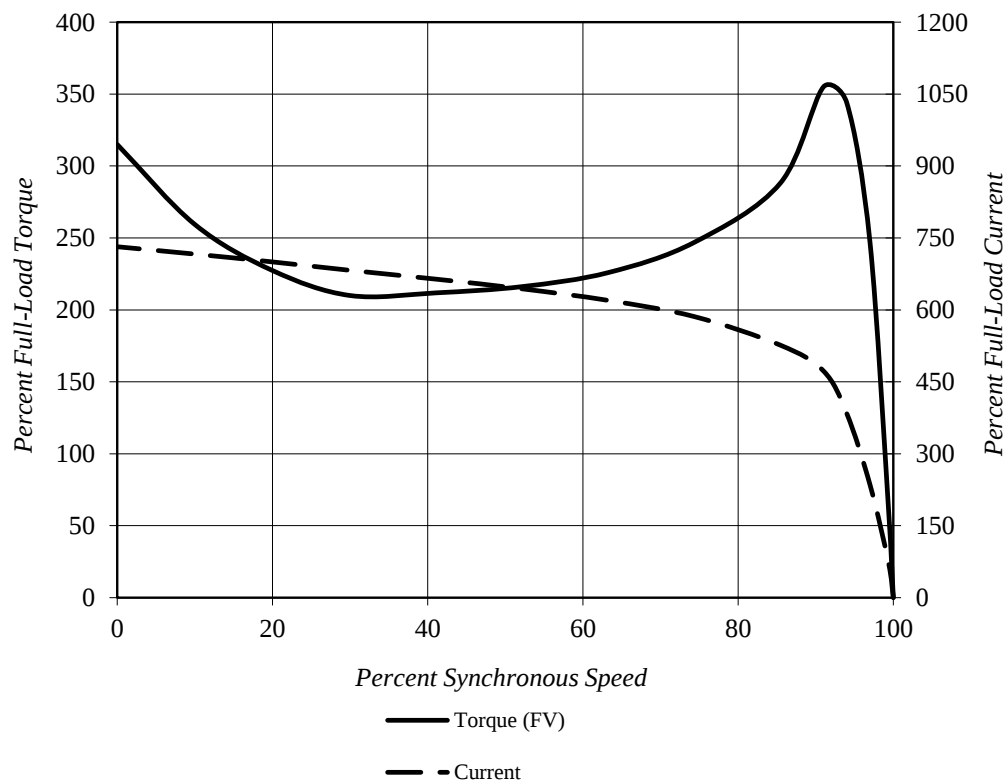
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0226SDMW7FS-P			FLAmps:	41
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	980	Load Inertia:	N/A	File:	GH6022 (22kW)

Locked Rotor Amps:	300 A	Load Type:	N/A
Locked Rotor Torque:	315%	Starting at:	N/A
Breakdown Torque:	355%	Accel. Time:	N/A
Rated Torque:	158 lb-ft		

Design Values



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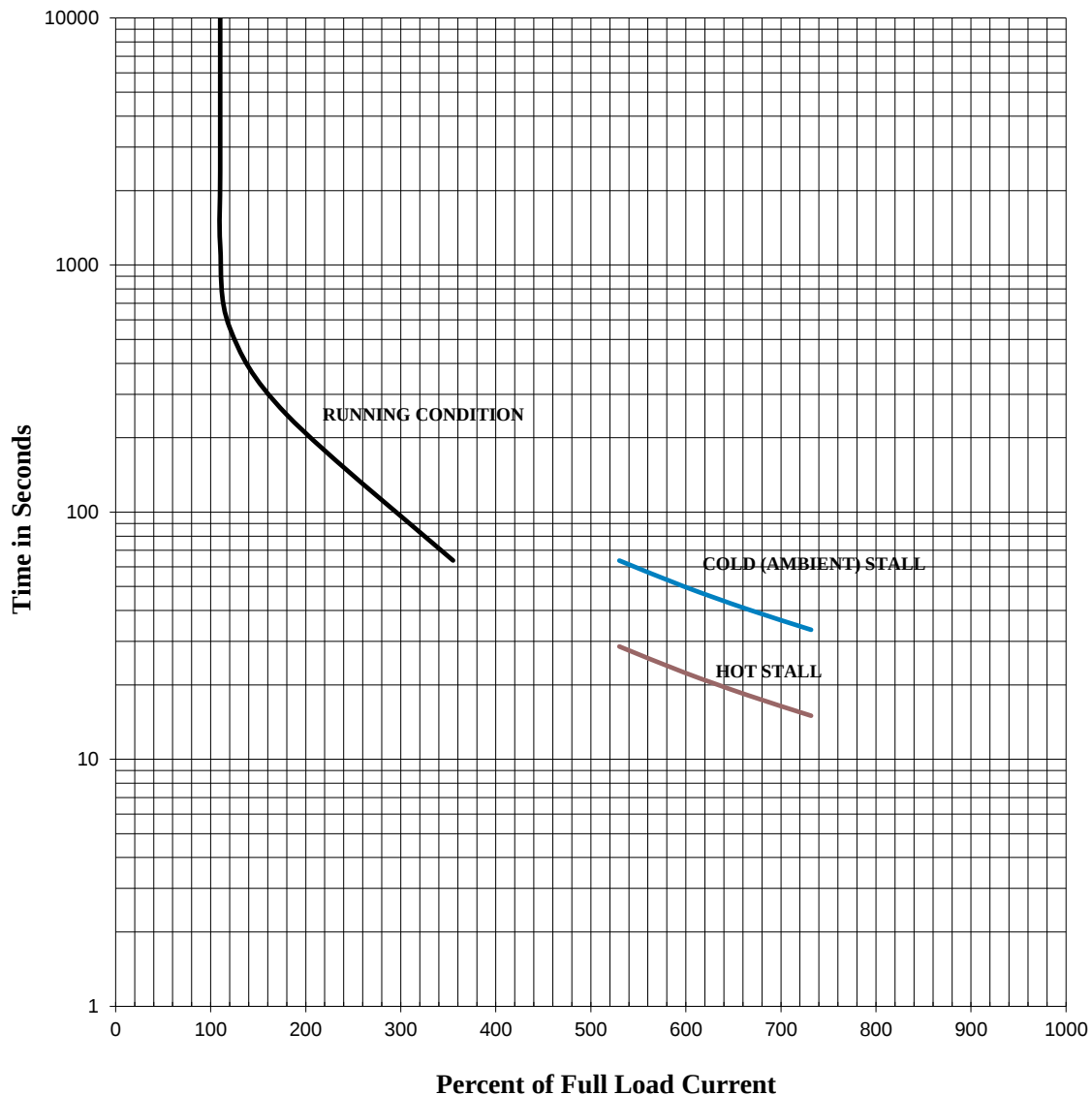
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0226SDMW7FS-P			FLAmps:	41
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	980	Load Inertia:	N/A	File:	GH6022 (22kW)



Comments: PROJECT -

D.E.Curve #: GH6022 (22kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA				
H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1000	
FRAME: 200L	ENCL: TEFC	FLAMPS: 44	FLRPM: 975	
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F	
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.	
MODEL No.: 0226SDMW7FS-P		kW: 22		
NOM. EFF.: 92.2	MIN. EFF.: -	cosØ 0.82		

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 270	FULL LOAD (lb-ft.): 159	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 255	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 305	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.6	FULL LOAD: 82.0
3/4 LOAD: 92.7	3/4 LOAD: 78.2
1/2 LOAD: 91.8	1/2 LOAD: 69.3

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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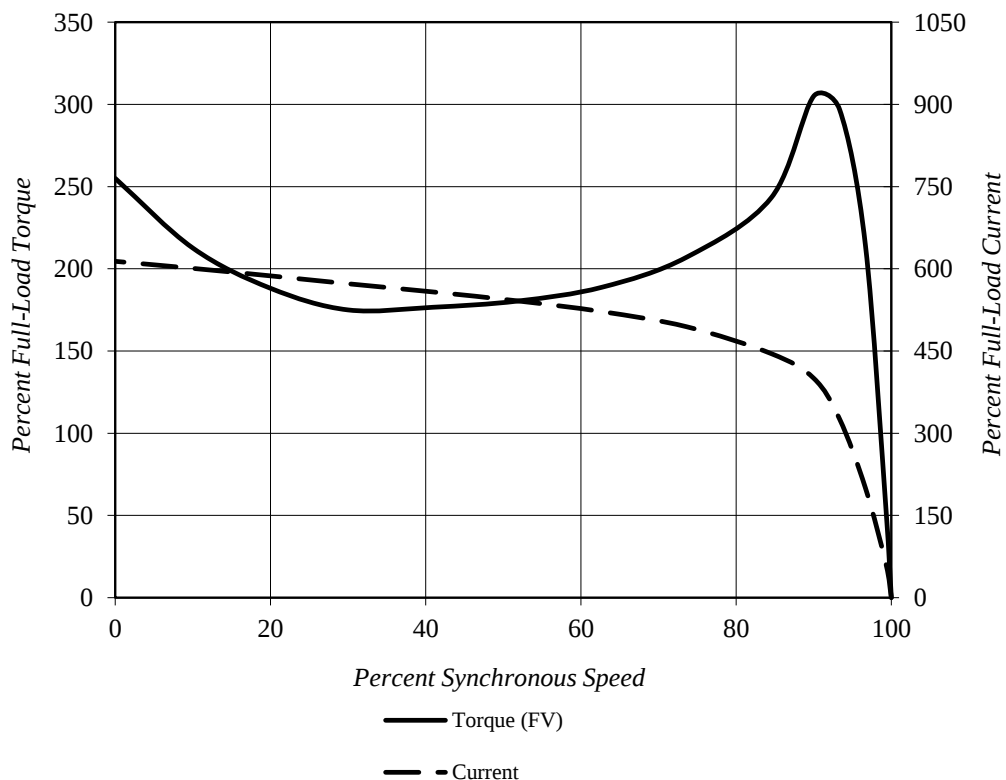
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0226SDMW7FS-P			FLAmps:	44
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6022 (22kW)

Locked Rotor Amps:	270 A	Load Type:	N/A
Locked Rotor Torque:	255%	Starting at:	N/A
Breakdown Torque:	305%	Accel. Time:	N/A
Rated Torque:	159 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6022 (22kW)

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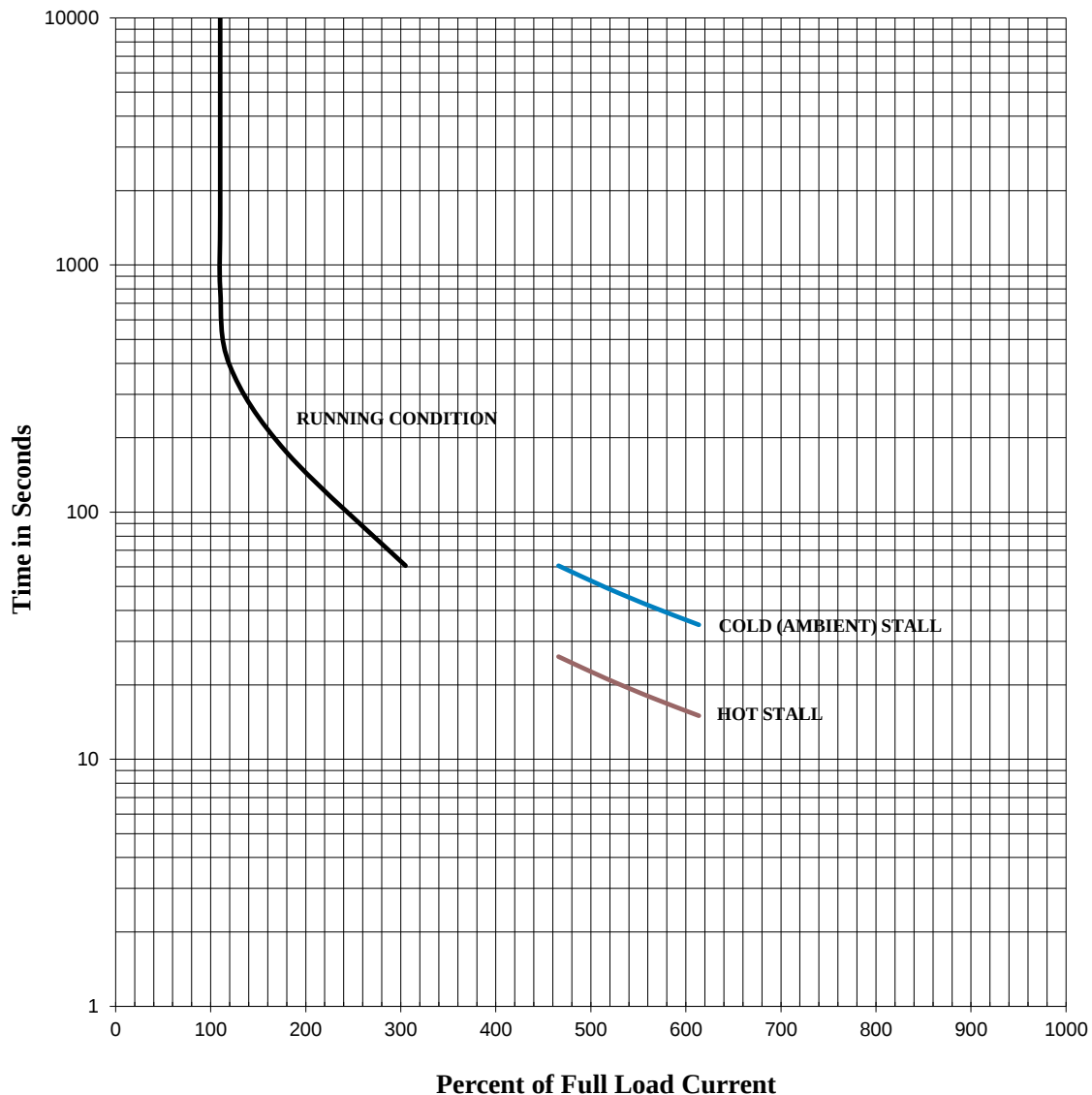
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0226SDMW7FS-P			FLAmps:	44
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	22	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	975	Load Inertia:	N/A	File:	GH6022 (22kW)



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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 30	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 200L	ENCL: TEFC	FLAMPS: 37	FLRPM: 1180
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: 0226SDMW7FS-P		kW: 22	
NOM. EFF.: 93.0	MIN. EFF.: -	P.F.: 78.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 294	FULL LOAD (lb-ft.): 131	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 345	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 360	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.0	FULL LOAD: 78.7
3/4 LOAD: 93.6	3/4 LOAD: 73.5
1/2 LOAD: 91.9	1/2 LOAD: 62.8

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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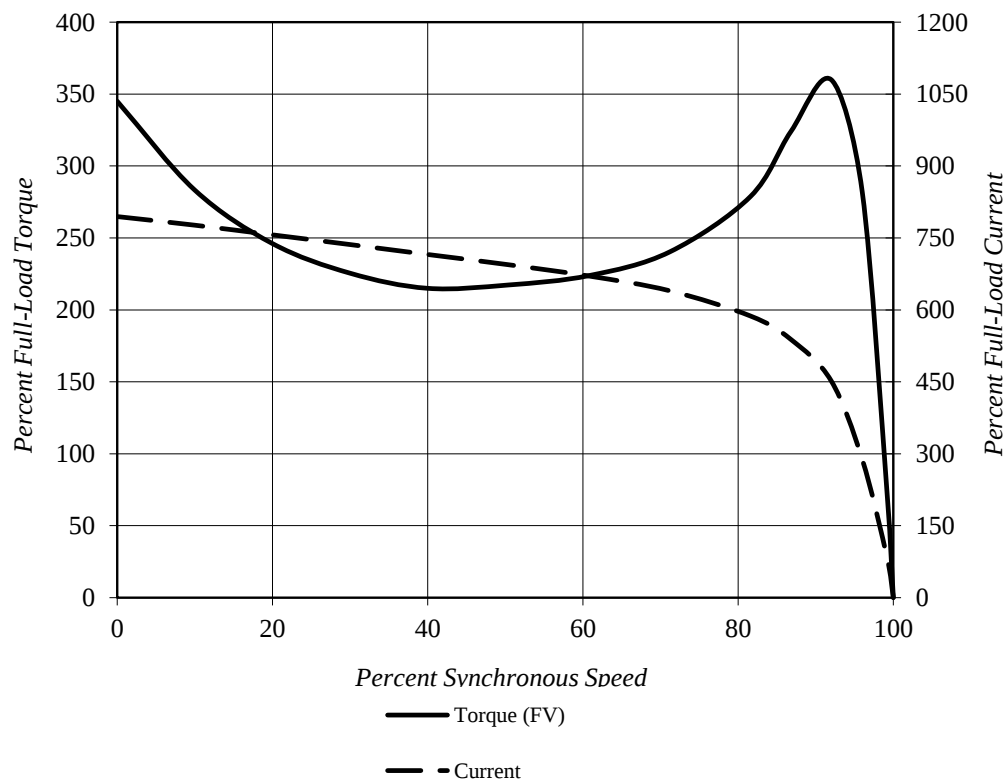
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0226SDMW7FS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	1180	Load Inertia:	N/A	File:	GH6022 (22kW)

Locked Rotor Amps:	294 A	Load Type:	N/A
Locked Rotor Torque:	345%	Starting at:	N/A
Breakdown Torque:	360%	Accel. Time:	N/A
Rated Torque:	131 lb-ft		

Design Values



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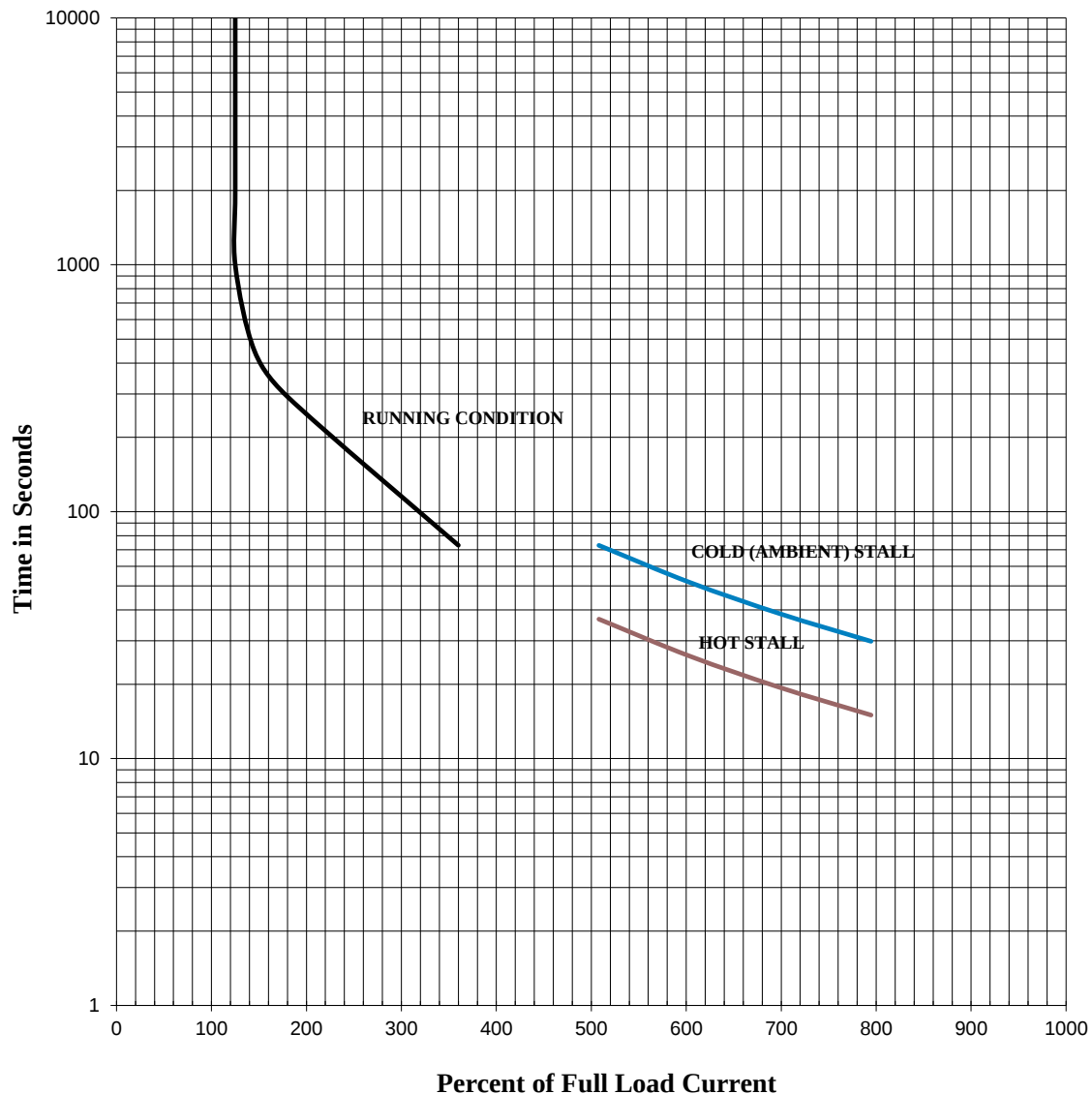
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0226SDMW7FS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	12.8 lb-ft ²	Date:	9/14/2020
FLRPM:	1180	Load Inertia:	N/A	File:	GH6022 (22kW)



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