

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: 2.8/1.6	FLRPM: 2865
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X752SDMV7FS-P		kW: 0.75	
NOM. EFF.: 80.7	MIN. EFF.: -	cosØ 0.86	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 16/9.5	FULL LOAD (lb-ft.): 1.8	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 195	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 300	

EFFICIENCY	POWER FACTOR
FULL LOAD: 80.0	FULL LOAD: 86.6
3/4 LOAD: 80.8	3/4 LOAD: 79.8
1/2 LOAD: 78.4	1/2 LOAD: 67.8

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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CERTIFIED BY: Zichao Xie

DATE: 12/26/2019

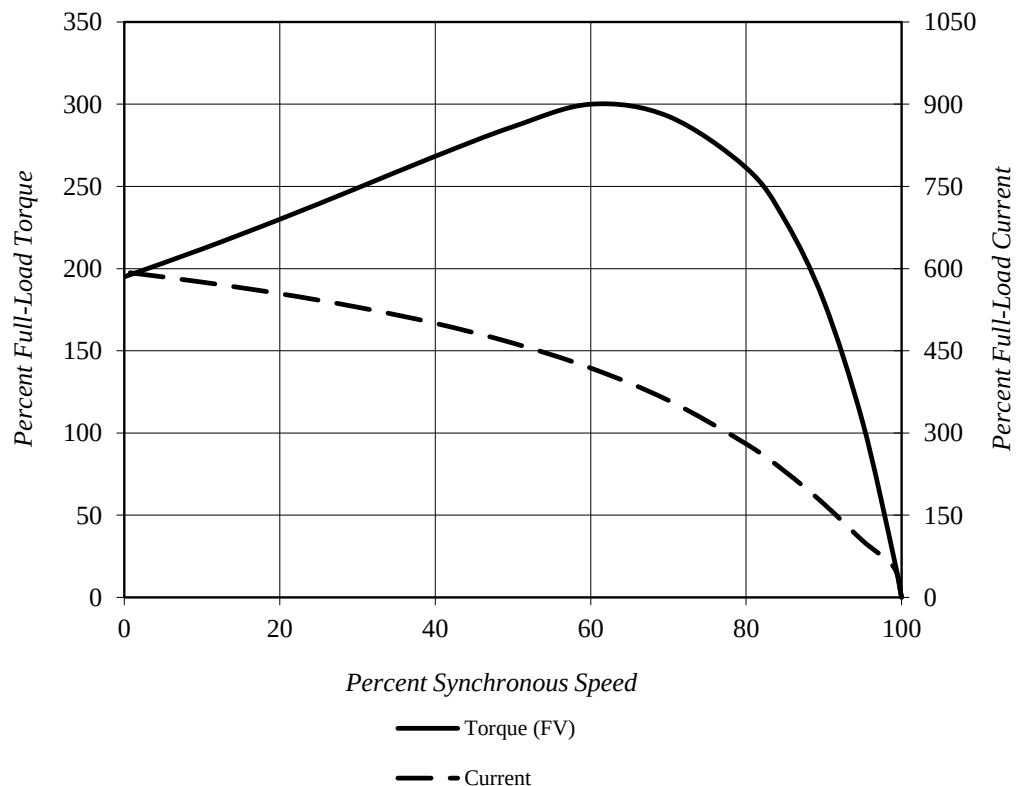
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	X752SDMV7FS-P			FLAmps:	2.8/1.6
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2865	Load Inertia:	N/A	File:	H2X75 (0.75kW)

Locked Rotor Amps:	16/9.5 A	Load Type:	N/A
Locked Rotor Torque:	195%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	1.8 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: H2X75 (0.75kW)

Prepared by: Zichao Xie

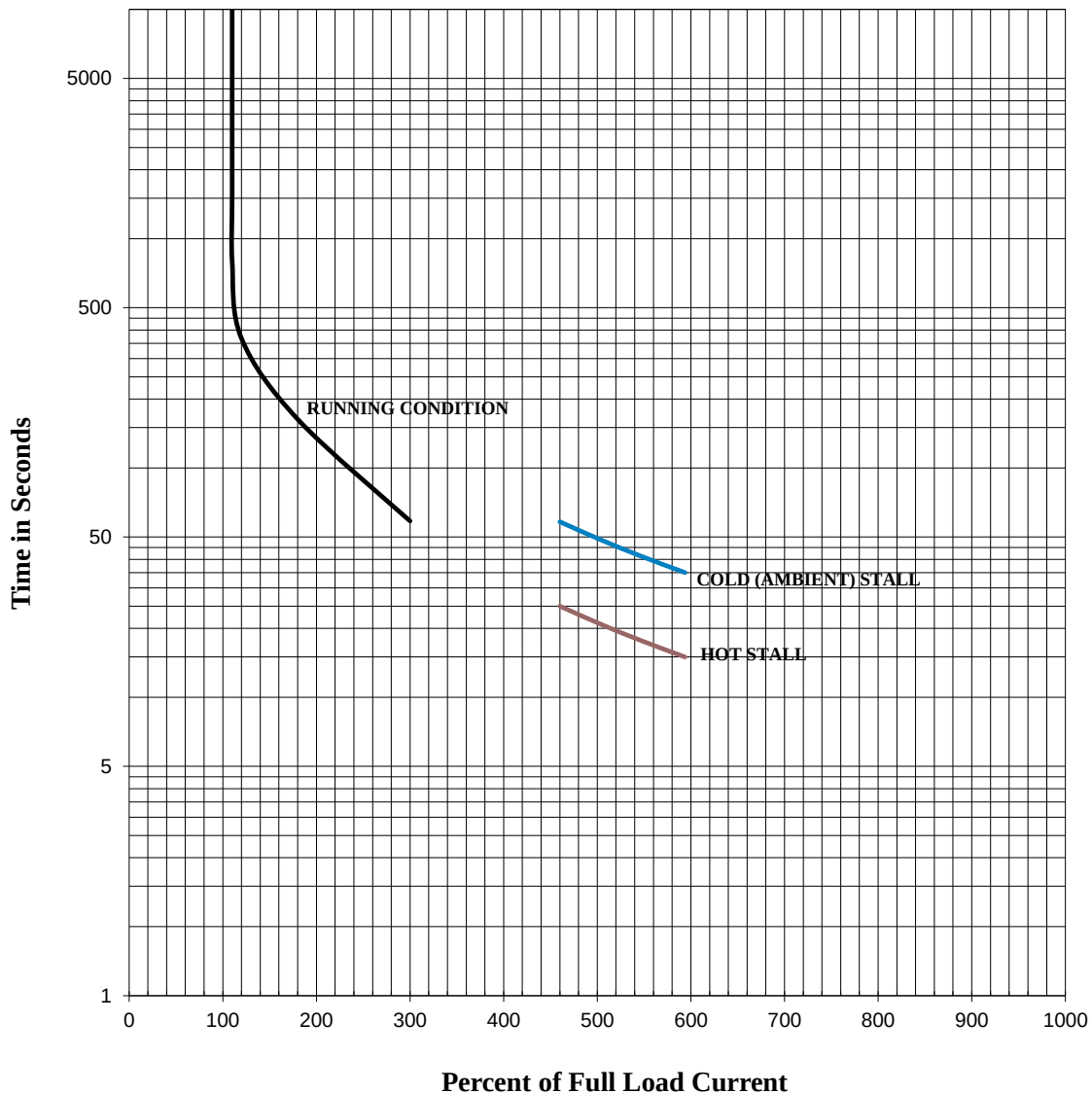
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	X752SDMV7FS-P			FLAmps:	2.8/1.6
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2865	Load Inertia:	N/A	File:	H2X75 (0.75kW)



Comments: PROJECT -

D.E.Curve #: H2X75 (0.75kW)

Prepared by: Zichao Xie

Checked by:

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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 80M	ENCL: TEFC	FLAMPS: 2.6/1.5	FLRPM: 2885
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X752SDMV7FS-P		kW: 0.75	
NOM. EFF.: 80.7	MIN. EFF.: -	cosØ 0.85	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 16/9.2	FULL LOAD (lb-ft.): 1.8	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 200	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 320	

EFFICIENCY	POWER FACTOR
FULL LOAD: 81.1	FULL LOAD: 85.2
3/4 LOAD: 81.2	3/4 LOAD: 77.4
1/2 LOAD: 77.9	1/2 LOAD: 64.0

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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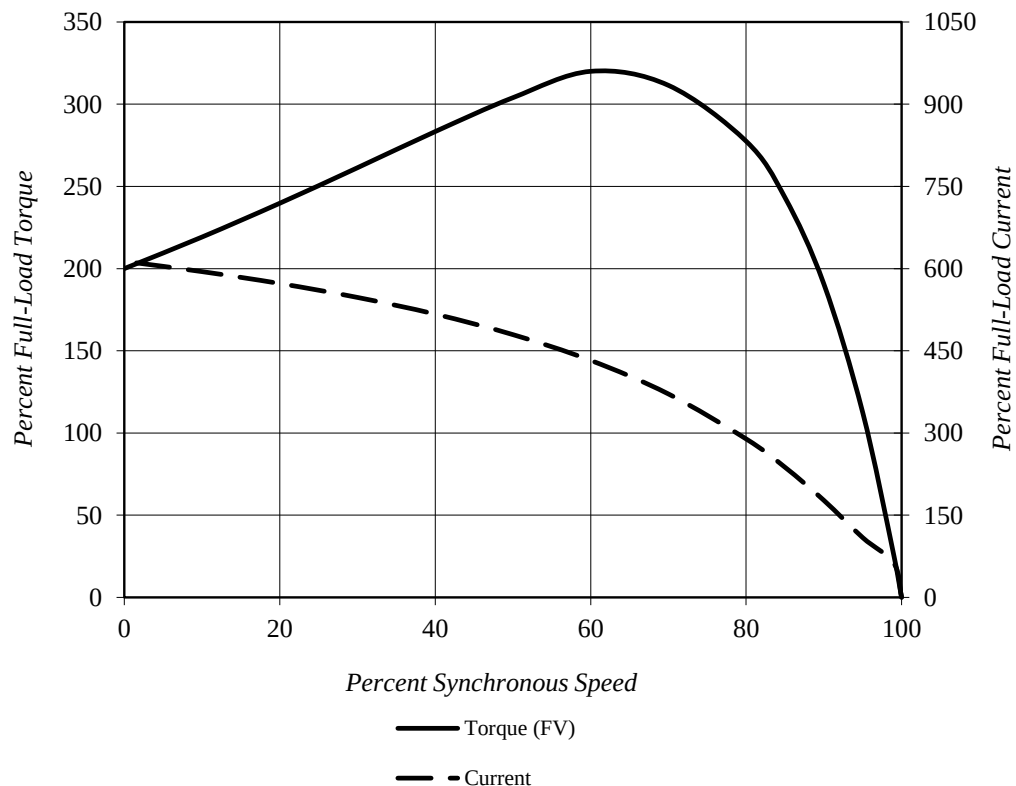
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	X752SDMV7FS-P			FLAmps:	2.6/1.5
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2885	Load Inertia:	N/A	File:	H2X75 (0.75kW)

Locked Rotor Amps:	16/9.2 A	Load Type:	N/A
Locked Rotor Torque:	200%	Starting at:	N/A
Breakdown Torque:	320%	Accel. Time:	N/A
Rated Torque:	1.8 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: H2X75 (0.75kW)

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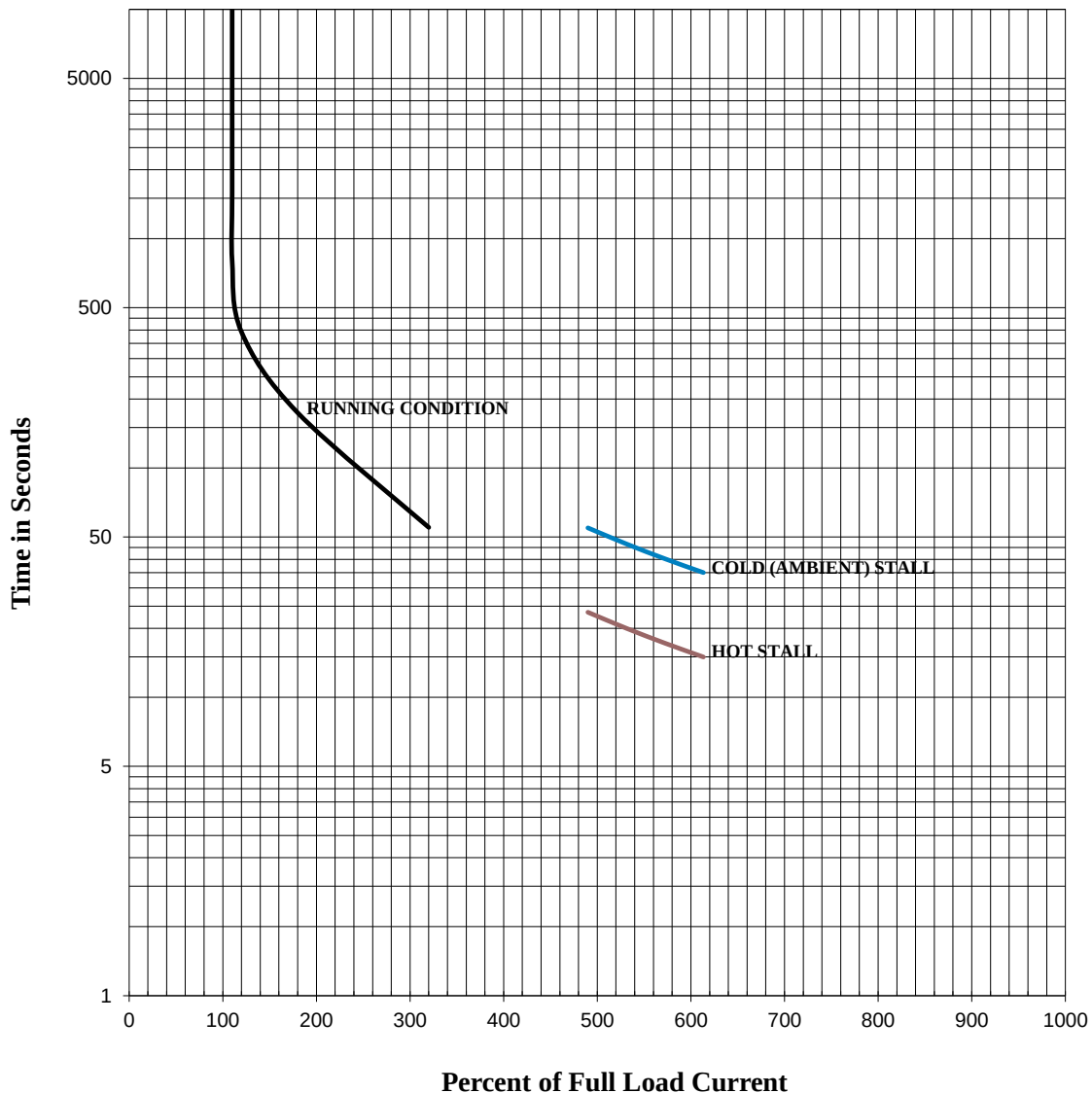
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	X752SDMV7FS-P			FLAmps:	2.6/1.5
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2885	Load Inertia:	N/A	File:	H2X75 (0.75kW



Comments: PROJECT -

D.E.Curve #: H2X75 (0.75kW

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 80M	ENCL: TEFC	FLAMPS: 2.8/1.6	FLRPM: 2850
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: X752SDMV7FS-P		kW: 0.75	
NOM. EFF.: 80.7	MIN. EFF.: -	cosØ 0.88	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 16/9.0	FULL LOAD (lb-ft.): 1.9	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 175	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 270	

EFFICIENCY	POWER FACTOR
FULL LOAD: 79.3	FULL LOAD: 89.8
3/4 LOAD: 81.1	3/4 LOAD: 84.8
1/2 LOAD: 79.9	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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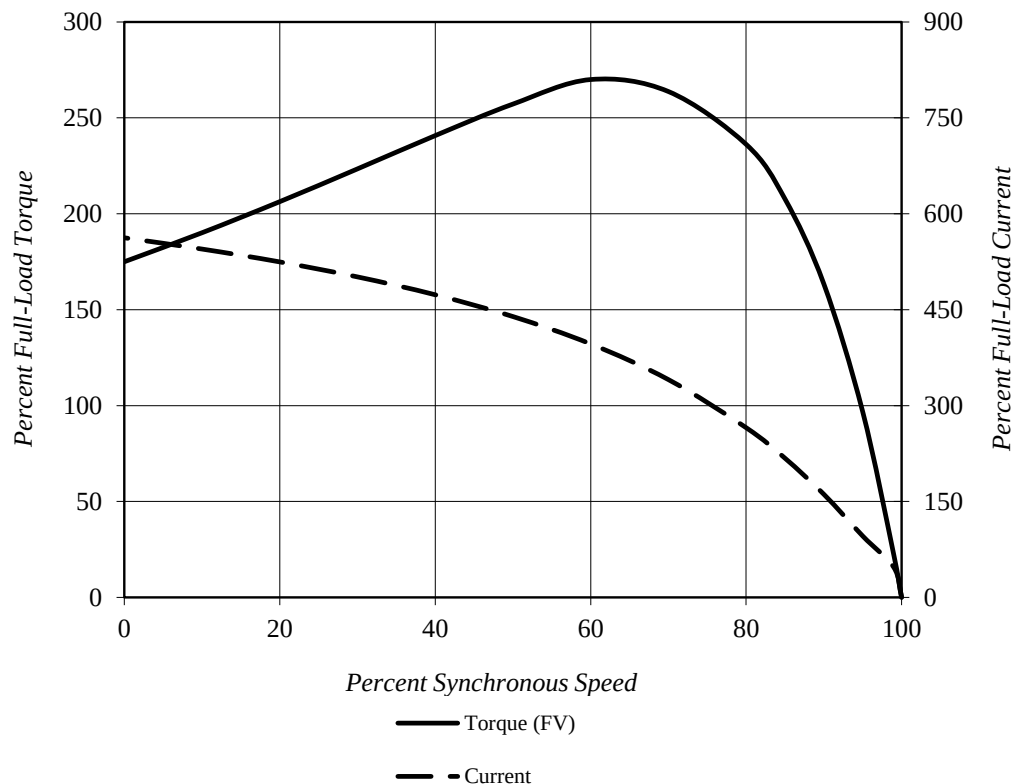
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	X752SDMV7FS-P			FLAmps:	2.8/1.6
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2850	Load Inertia:	N/A	File:	H2X75 (0.75kW)

Locked Rotor Amps:	16/9.0 A	Load Type:	N/A
Locked Rotor Torque:	175%	Starting at:	N/A
Breakdown Torque:	270%	Accel. Time:	N/A
Rated Torque:	1.9 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: H2X75 (0.75kW)

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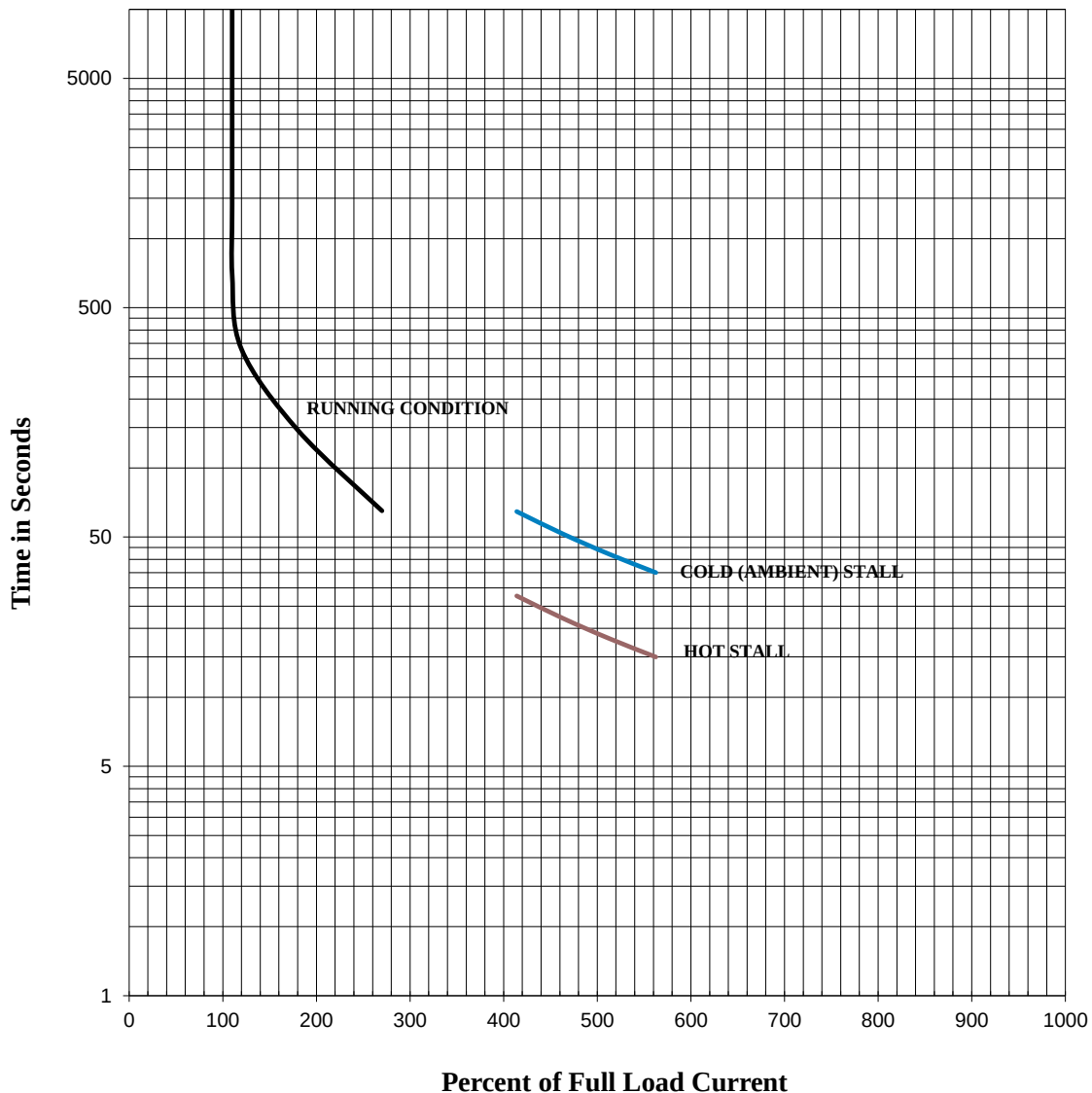
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	X752SDMV7FS-P			FLAmps:	2.8/1.6
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	0.75	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	2850	Load Inertia:	N/A	File:	H2X75 (0.75kW)



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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 1	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 80M	ENCL: TEFC	FLAMPS: 1.3	FLRPM: 3495
FORM: FCK1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: J	DUTY: Cont.
MODEL No.: X752SDMV7FS-P		kW: 0.75	
NOM. EFF.: 77.0	MIN. EFF.: -	P.F.: 84.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 9.8	FULL LOAD (lb-ft.): 1.5	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 250	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 325	

EFFICIENCY	POWER FACTOR
FULL LOAD: 83.5	FULL LOAD: 84.9
3/4 LOAD: 83.0	3/4 LOAD: 78.4
1/2 LOAD: 79.5	1/2 LOAD: 66.4

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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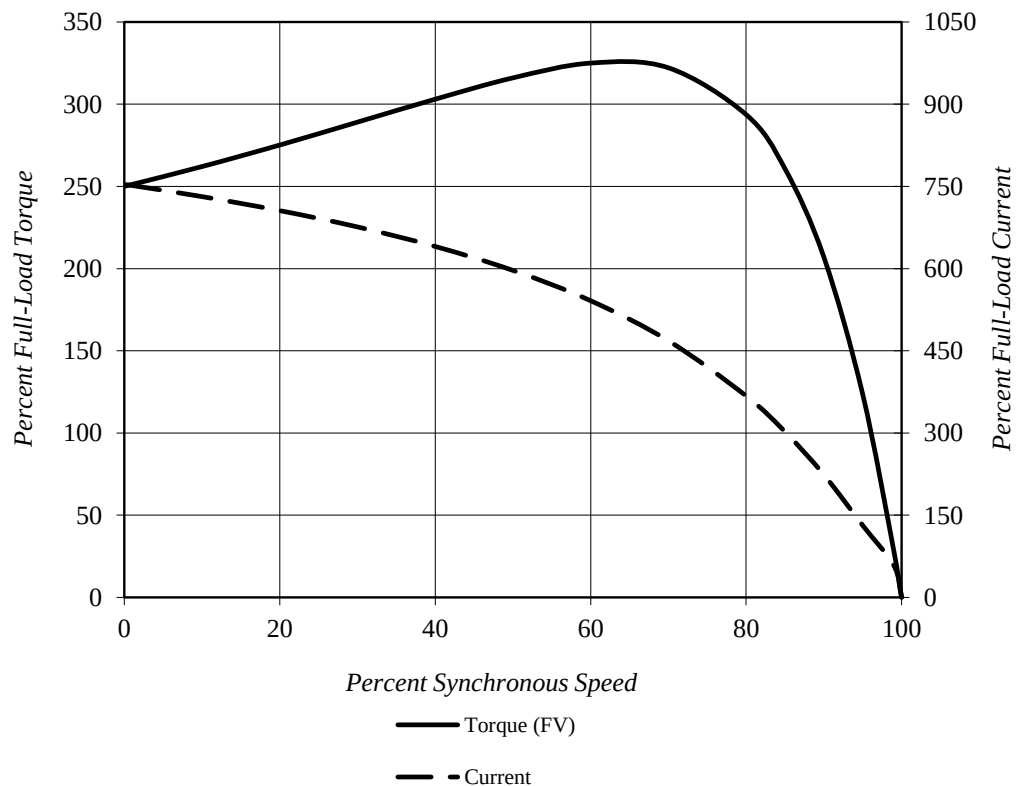
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	X752SDMV7FS-P			FLAmps:	1.3
Enclosure:	TEFC	Voltage:	460 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	3495	Load Inertia:	N/A	File:	H2X75 (0.75kW)

Locked Rotor Amps:	9.8 A	Load Type:	N/A
Locked Rotor Torque:	250%	Starting at:	N/A
Breakdown Torque:	325%	Accel. Time:	N/A
Rated Torque:	1.5 lb-ft		

Design Values



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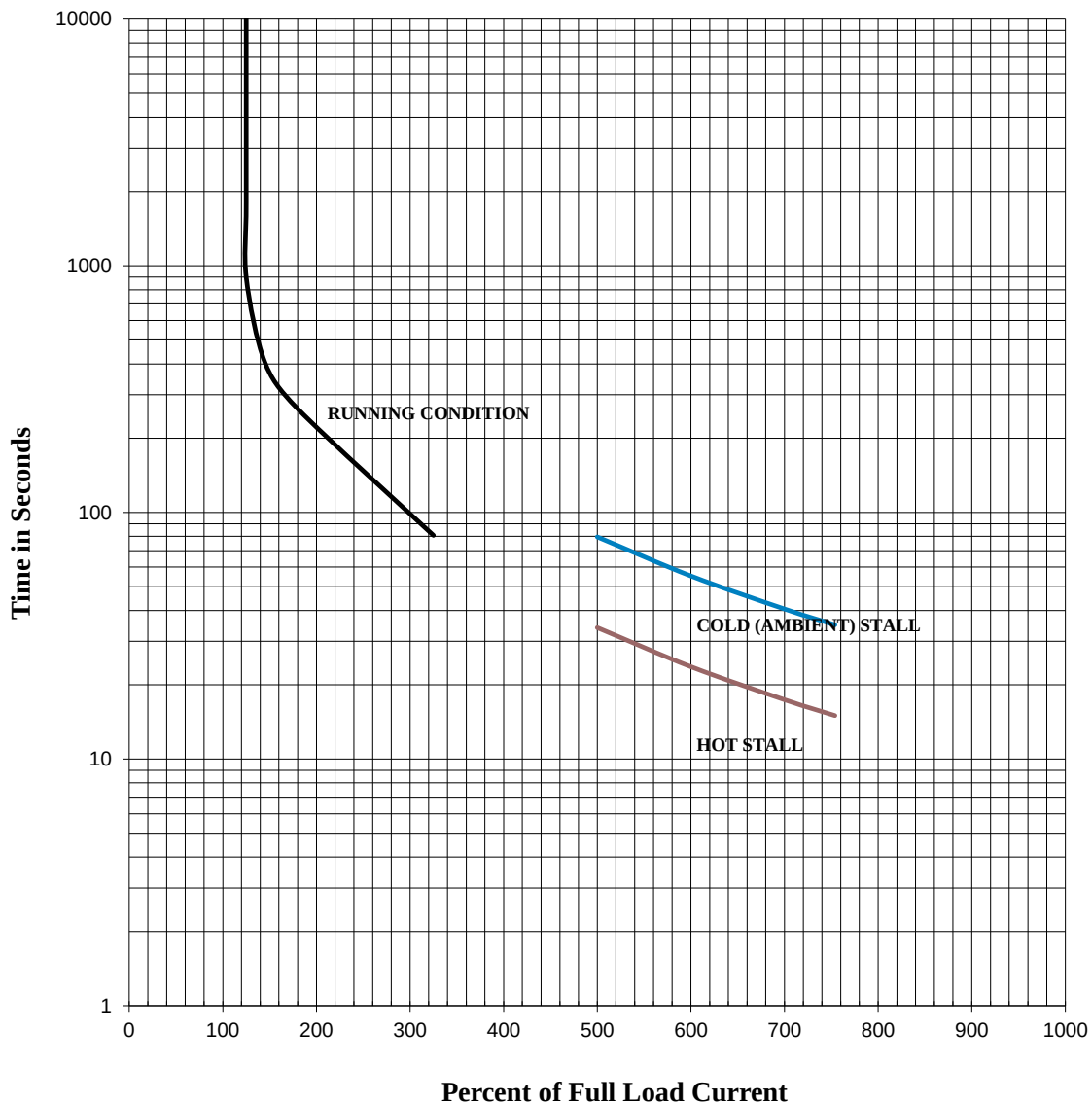
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	X752SDMV7FS-P			FLAmps:	1.3
Enclosure:	TEFC	Voltage:	460 V	Frame:	80M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	1	Rotor Inertia:	0.03 lb-ft ²	Date:	12/26/2019
FLRPM:	3495	Load Inertia:	N/A	File:	H2X75 (0.75kW)



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