

ROTATION:
CCW
VIEW FROM:
ODE

UNIT: mm

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

B3 FOOT MOUNTED MOTOR
DL DRAWING IEC GLOBAL
TYPE: 2-4-6P - 400V
FRAME: 90L

3HFN000151

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES				
X.	±2.0			
X.X	±0.5			
X.XX	±0.1			
MAXIMUM MOTOR WEIGHT				
	- lbs.			
	- kgs.			
NO	REVISION	DRAWN BY	DATE	CHECK



DRAWN BY: HIEN. NGUYEN
CHECK BY: B.X.QUYNH
APPROVED BY: JAY BUGBEE
www.toshiba.com/ind

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: 90L	ENCL: TEFC	FLAMPS: 5.2/3.0	FLRPM: 2875
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.85	

AMPERAGE

LOCKED ROTOR: 38/22

TORQUES

FULL LOAD (lb-ft.): 3.7
 LOCKED ROTOR (%): 315
 BREAK DOWN (%): 275

****BEARINGS:**

DRIVE END: REFER TO NP
 OPPOSITE DRIVE END: REFER TO NP

EFFICIENCY

FULL LOAD: 84.1
 3/4 LOAD: 84.6
 1/2 LOAD: 83.1

POWER FACTOR

FULL LOAD: 85.4
 3/4 LOAD: 80.6
 1/2 LOAD: 70.4

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).

CERTIFIED BY: Zichao Xie

DATE: 1/7/2020

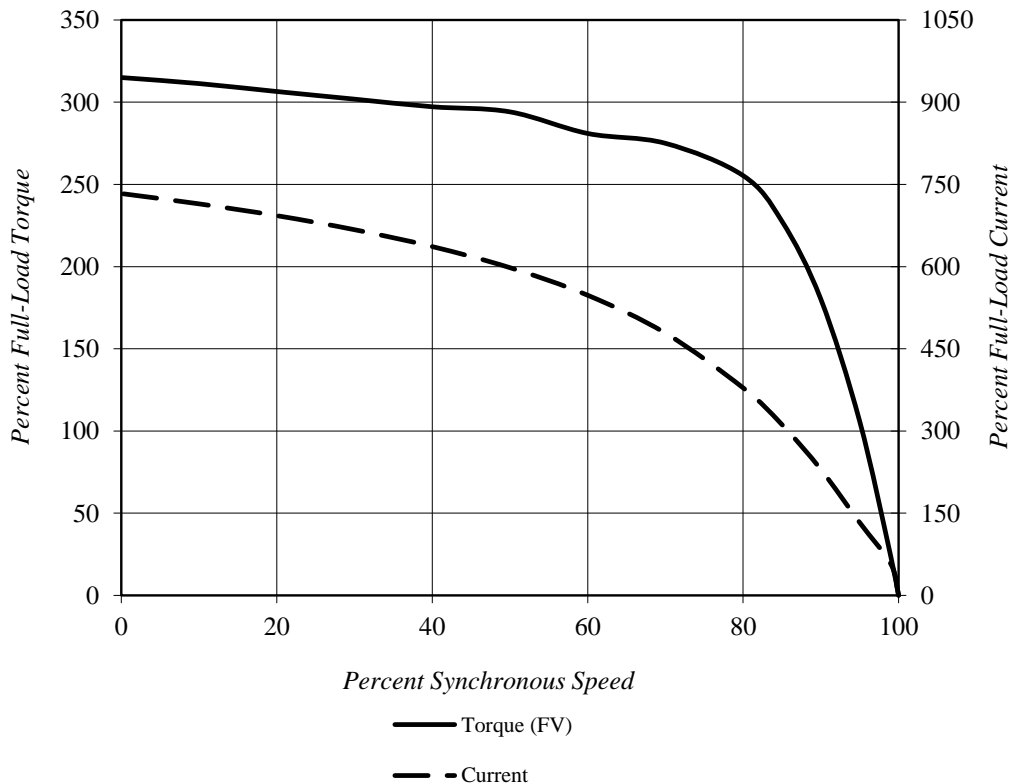
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y152SDMV7FS-PL			FLAmps:	5.2/3.0
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2875	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)

Locked Rotor Amps:	38/22 A	Load Type:	N/A
Locked Rotor Torque:	315%	Starting at:	N/A
Breakdown Torque:	275%	Accel. Time:	N/A
Rated Torque:	3.7 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y15 (1.5kW)

Prepared by: Zichao Xie

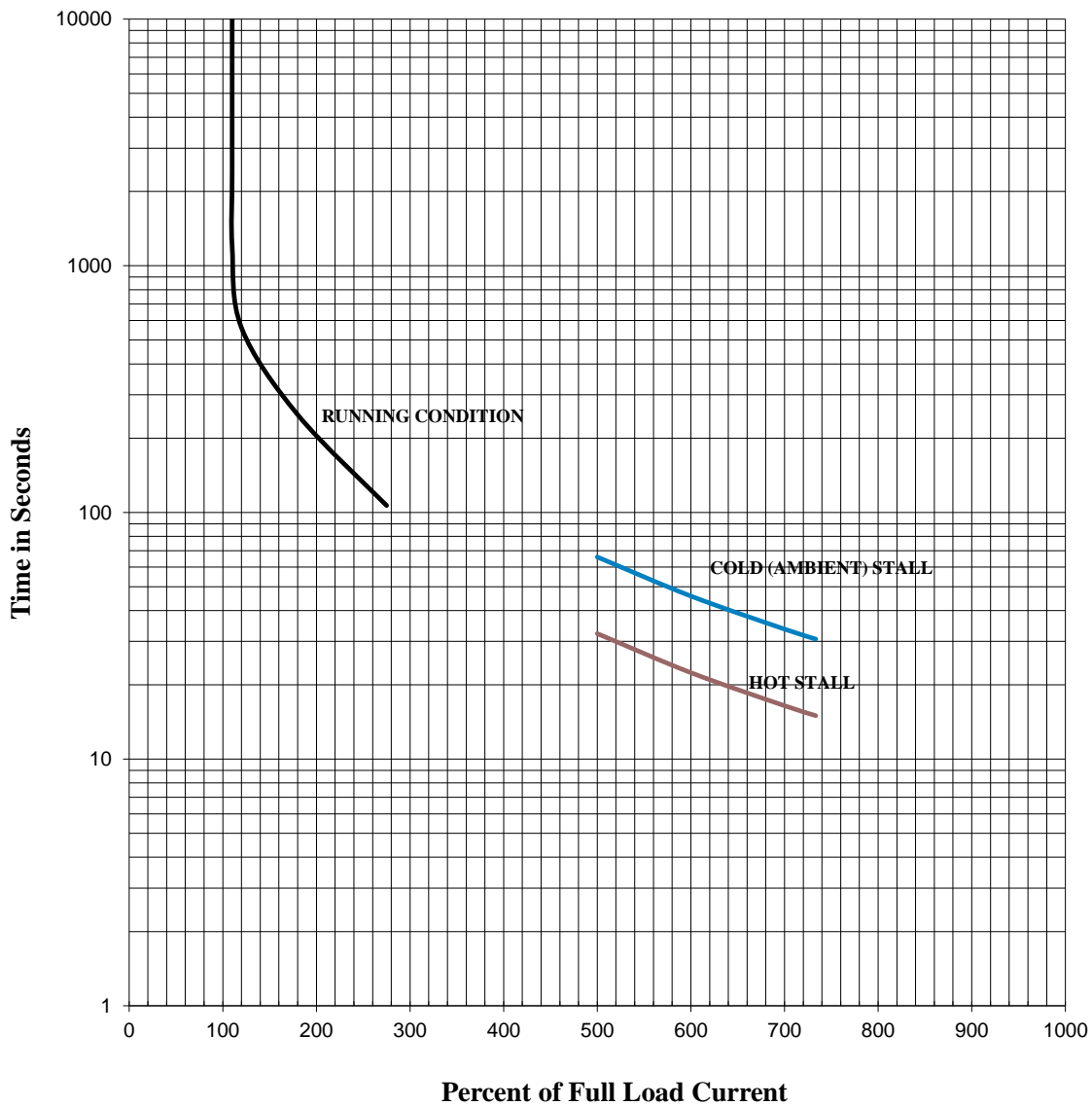
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y152SDMV7FS-PL			FLAmps:	5.2/3.0
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2875	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)



Comments: PROJECT -

D.E. Curve #: GH2Y15 (1.5kW)

Prepared by: Zichao Xie

Checked by:

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Industrial Division / Houston Motor Plant

SQUIRREL CAGE INDUCTION MOTOR
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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 240/415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.2/3.0	FLRPM: 2875
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.81	

AMPERAGE

LOCKED ROTOR: 40/23

TORQUES

FULL LOAD (lb-ft.): 3.6
LOCKED ROTOR (%): 390
BREAK DOWN (%): 295

****BEARINGS:**

DRIVE END: REFER TO NP
OPPOSITE DRIVE END: REFER TO NP

EFFICIENCY

FULL LOAD: 84.1
3/4 LOAD: 84.1
1/2 LOAD: 82.1

POWER FACTOR

FULL LOAD: 81.7
3/4 LOAD: 75.7
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).

CERTIFIED BY: Zichao Xie

DATE: 1/7/2020

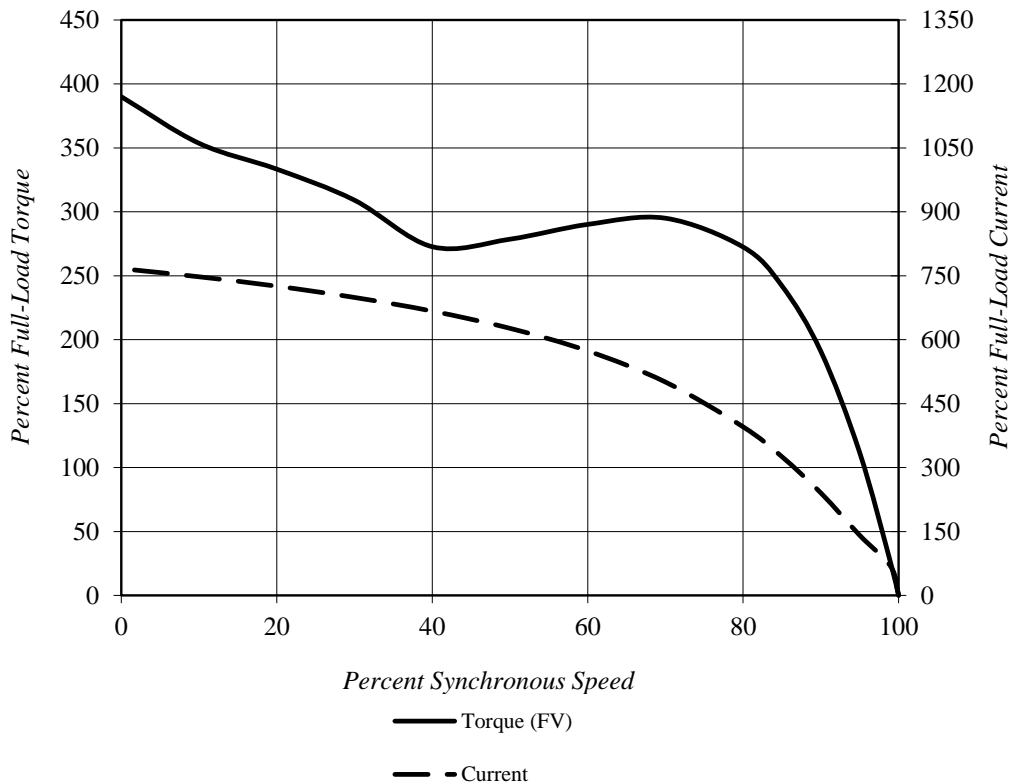
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y152SDMV7FS-PL			FLAmps:	5.2/3.0
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2875	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)

Locked Rotor Amps:	40/23 A	Load Type:	N/A
Locked Rotor Torque:	390%	Starting at:	N/A
Breakdown Torque:	295%	Accel. Time:	N/A
Rated Torque:	3.6 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y15 (1.5kW)

Prepared by: Zichao Xie

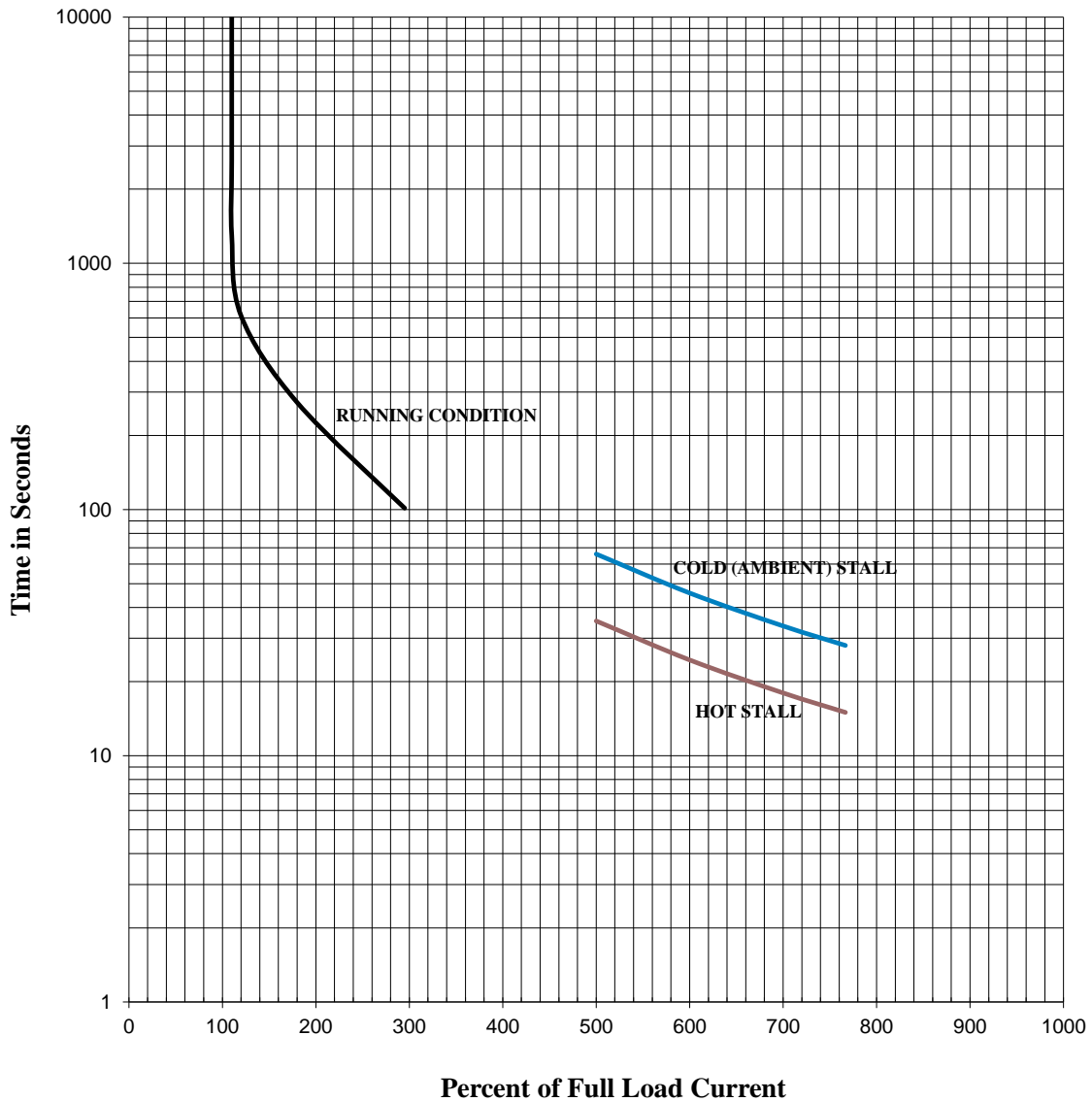
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y152SDMV7FS-PL			FLAmps:	5.2/3.0
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2875	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)



Comments: PROJECT _____

D.E. Curve #: GH2Y15 (1.5kW)

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Checked by: _____

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APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.5/3.2	FLRPM: 2850
FORM: FCK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.87	

AMPERAGE

LOCKED ROTOR: 36/21

TORQUES

FULL LOAD (lb-ft.): 3.7
LOCKED ROTOR (%): 315
BREAK DOWN (%): 250

****BEARINGS:**

DRIVE END: REFER TO NP
OPPOSITE DRIVE END: REFER TO NP

EFFICIENCY

FULL LOAD: 82.6
3/4 LOAD: 83.7
1/2 LOAD: 82.9

POWER FACTOR

FULL LOAD: 87.6
3/4 LOAD: 84.3
1/2 LOAD: 76.2

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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DATE: 1/7/2020

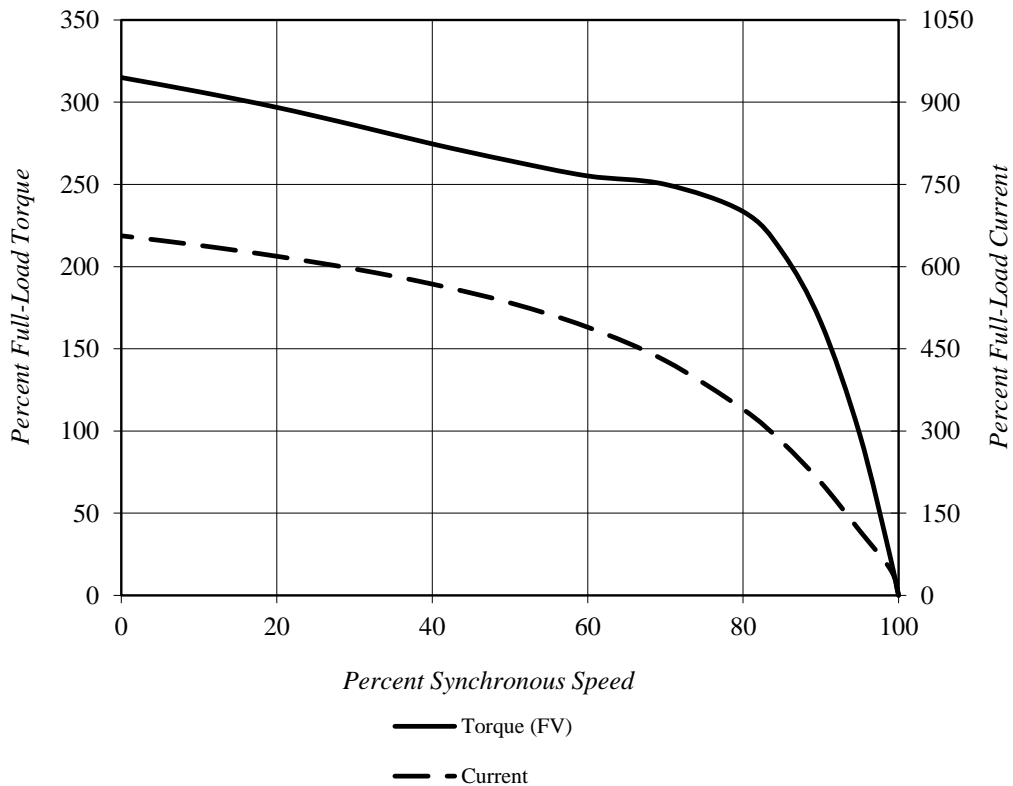
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y152SDMV7FS-PL			FLAmps:	5.5/3.2
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2850	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)

Locked Rotor Amps:	36/21 A	Load Type:	N/A
Locked Rotor Torque:	315%	Starting at:	N/A
Breakdown Torque:	250%	Accel. Time:	N/A
Rated Torque:	3.7 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH2Y15 (1.5kW)

Prepared by: Zichao Xie

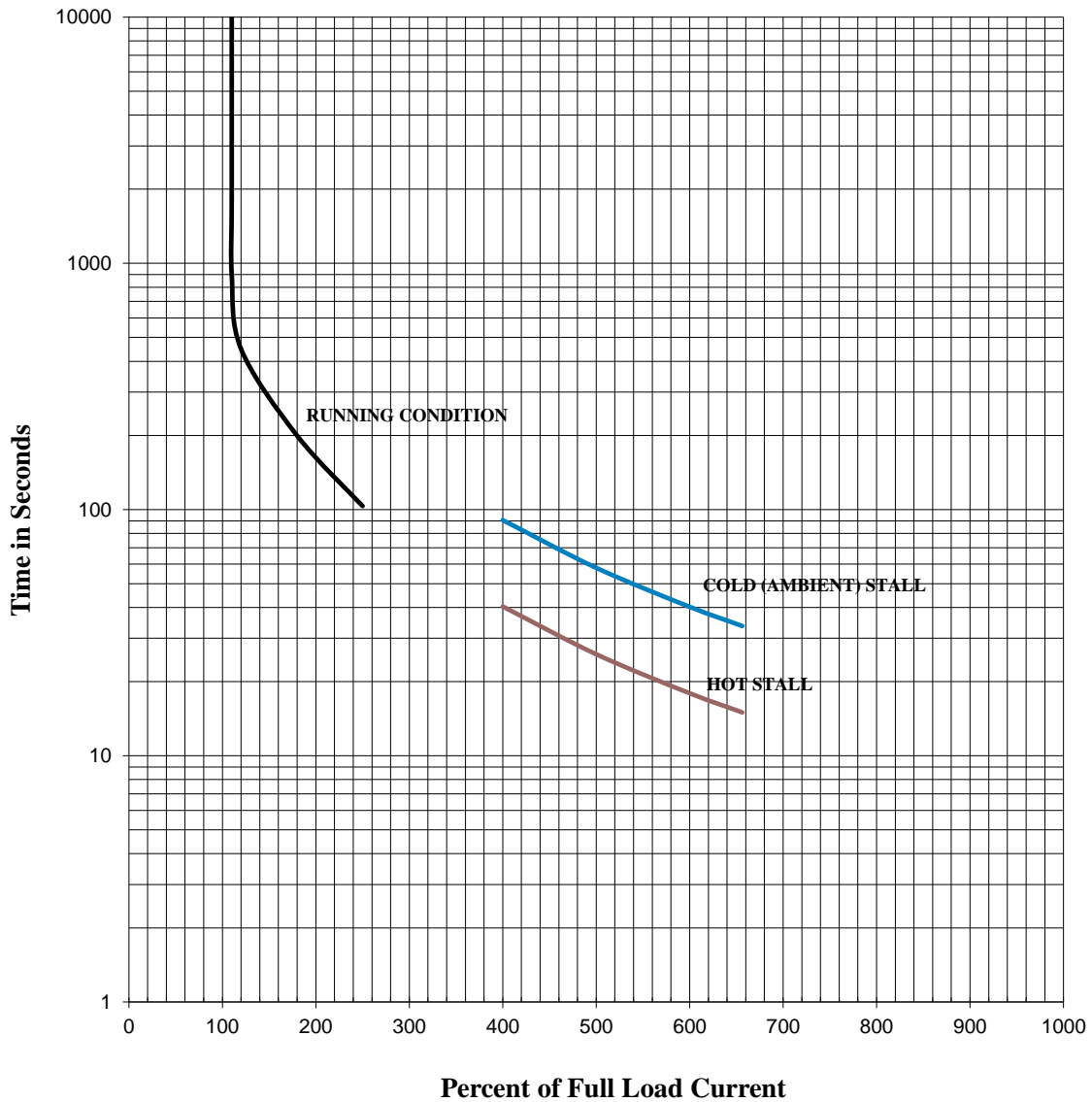
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y152SDMV7FS-PL			FLAmps:	5.5/3.2
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	2850	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)



Comments: PROJECT -

D.E. Curve #: GH2Y15 (1.5kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 2	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.6	FLRPM: 3495
FORM: FCK1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: Y152SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 85.5	MIN. EFF.: -	P.F.: 84.0	

AMPERAGE

LOCKED ROTOR: 24

TORQUES

FULL LOAD (lb-ft.): 3.0
LOCKED ROTOR (%): 365
BREAK DOWN (%): 315

****BEARINGS:**

DRIVE END: REFER TO NP
OPPOSITE DRIVE END: REFER TO NP

EFFICIENCY

FULL LOAD: 86.8
3/4 LOAD: 86.5
1/2 LOAD: 84.2

POWER FACTOR

FULL LOAD: 84.2
3/4 LOAD: 79.4
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
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** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

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DATE: 1/7/2020

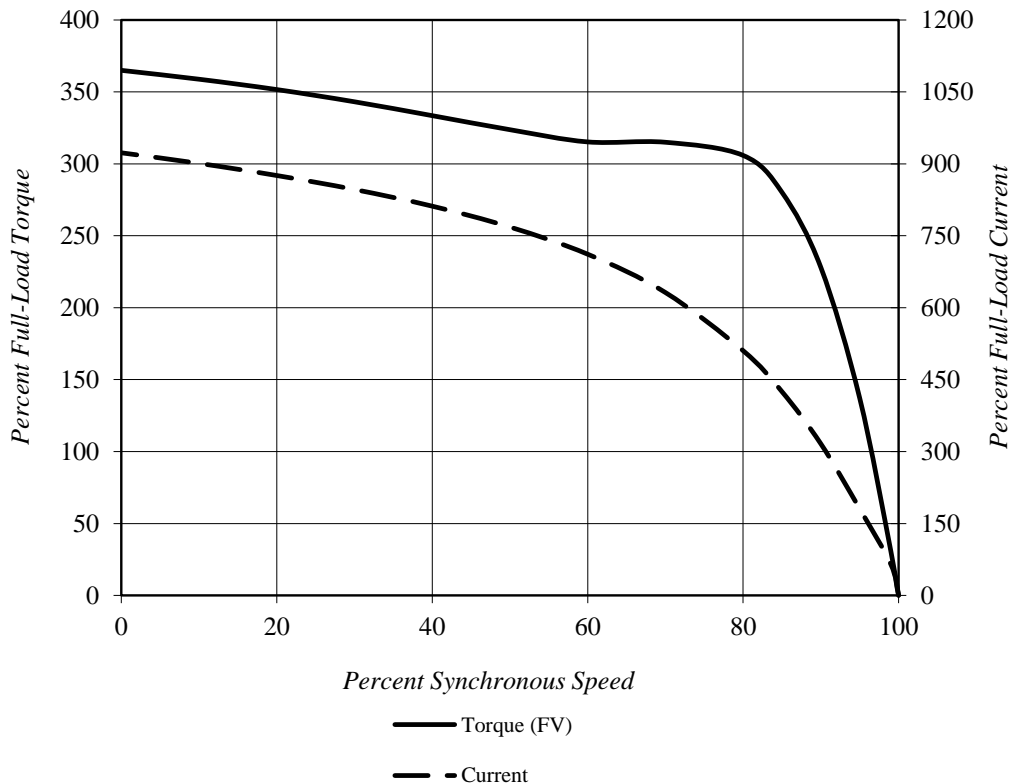
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y152SDMV7FS-PL			FLAmps:	2.6
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	2	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	3495	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)

Locked Rotor Amps:	24 A	Load Type:	N/A
Locked Rotor Torque:	365%	Starting at:	N/A
Breakdown Torque:	315%	Accel. Time:	N/A
Rated Torque:	3 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2Y15 (1.5kW)

Prepared by: Zichao Xie

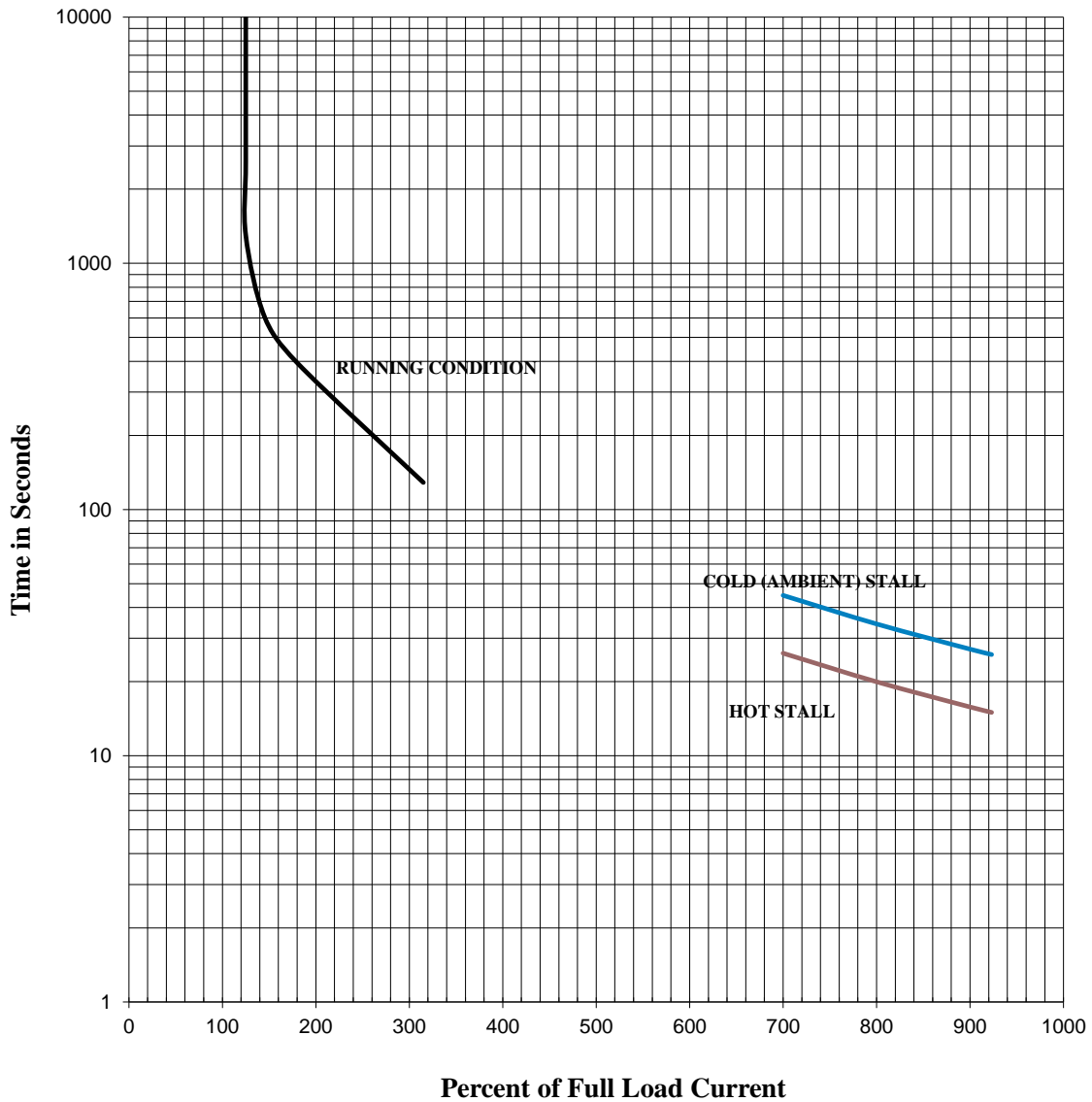
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y152SDMV7FS-PL			FLAmps:	2.6
Enclosure:	TEFC	Voltage:	460 V	Frame:	90L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	2	Rotor Inertia:	0.07 lb-ft ²	Date:	1/7/2020
FLRPM:	3495	Load Inertia:	N/A	File:	GH2Y15 (1.5kW)



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