

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
3HFN000263
TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TYPE: 6P - 400V
FRAME: 100L

TOLERANCES	
X.	± 2.0
X.X	± 0.5
X.XX	± 0.1
MAXIMUM MOTOR WEIGHT	
- lbs.	
- kgs.	

NO	REVISION	DRAWN BY	DATE	CHECK

EQP Global SD
XT SERIES

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: 1000
FRAME: 100L	ENCL: TEFC	FLAMPS: 6.6/3.8	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y156SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 82.5	MIN. EFF.: -	cosØ 0.66	

AMPERAGE

LOCKED ROTOR: 48/28

TORQUES

FULL LOAD (lb-ft.): 10.8
LOCKED ROTOR (%): 325
BREAK DOWN (%): 485

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 86.7
3/4 LOAD: 85.7
1/2 LOAD: 82.2

POWER FACTOR

FULL LOAD: 66.1
3/4 LOAD: 58.3
1/2 LOAD: 46.1

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).

CERTIFIED BY: Zichao Xie

DATE: 6/25/2020

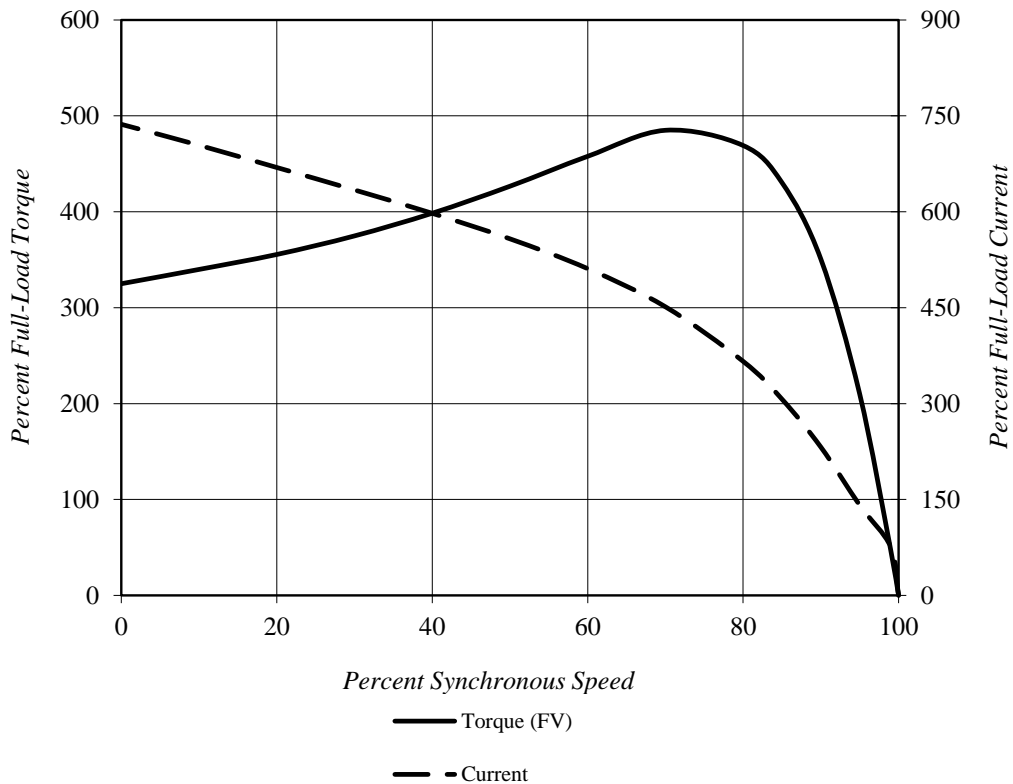
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)

Locked Rotor Amps:	48/28 A	Load Type:	N/A
Locked Rotor Torque:	325%	Starting at:	N/A
Breakdown Torque:	485%	Accel. Time:	N/A
Rated Torque:	10.8 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

Prepared by: Zichao Xie

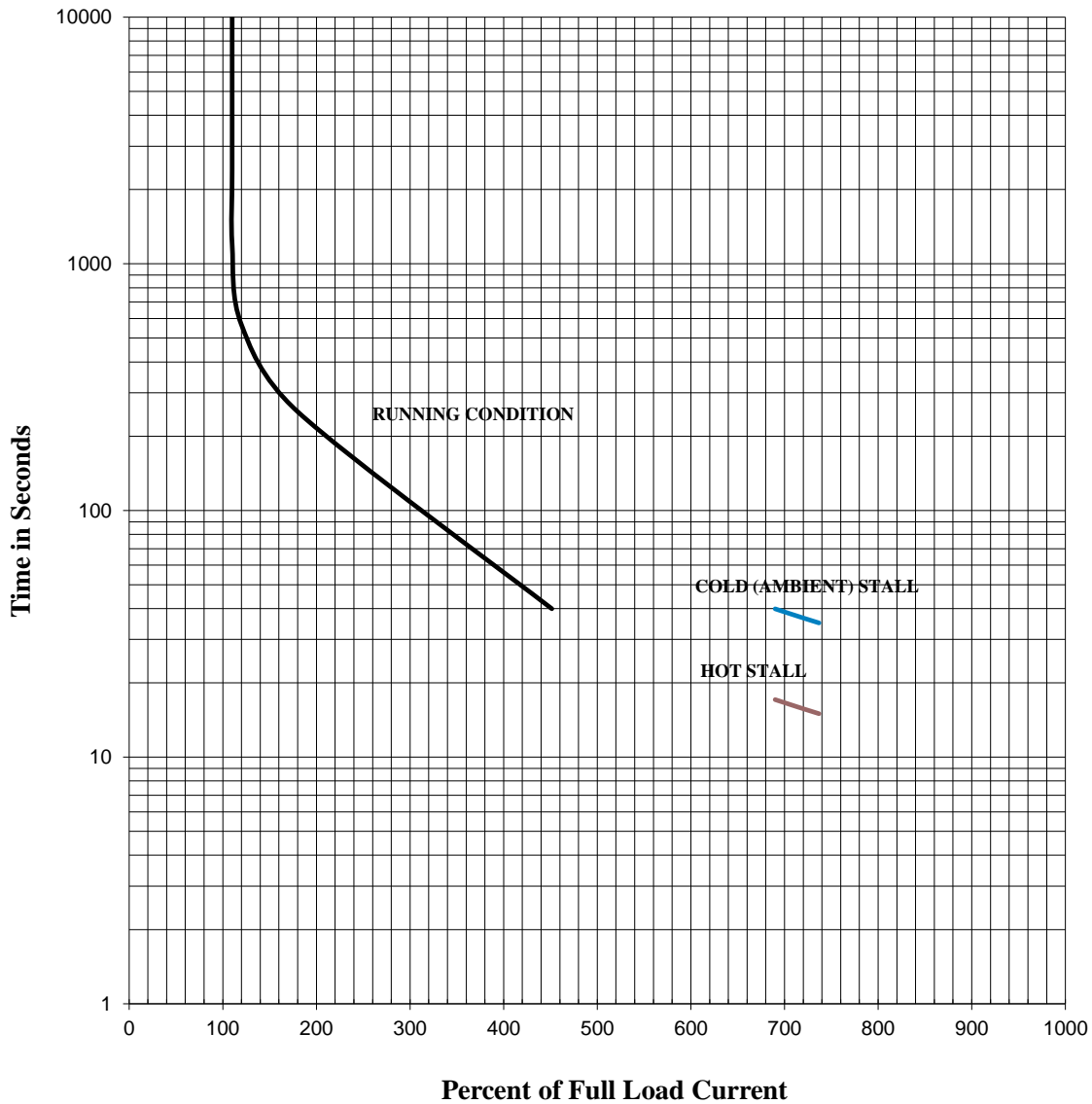
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	230/400 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

Prepared by: Zichao Xie

Checked by:

TOSHIBA INTERNATIONAL CORPORATION
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: 1000
FRAME: 100L	ENCL: TEFC	FLAMPS: 6.6/3.8	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y156SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 82.5	MIN. EFF.: -	cosØ 0.63	

AMPERAGE

LOCKED ROTOR: 50/29

TORQUES

FULL LOAD (lb-ft.): 10.8
 LOCKED ROTOR (%): 355
 BREAK DOWN (%): 520

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 86.8
 3/4 LOAD: 85.5
 1/2 LOAD: 82.5

POWER FACTOR

FULL LOAD: 63.6
 3/4 LOAD: 55.3
 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).

CERTIFIED BY: Zichao Xie

DATE: 6/25/2020

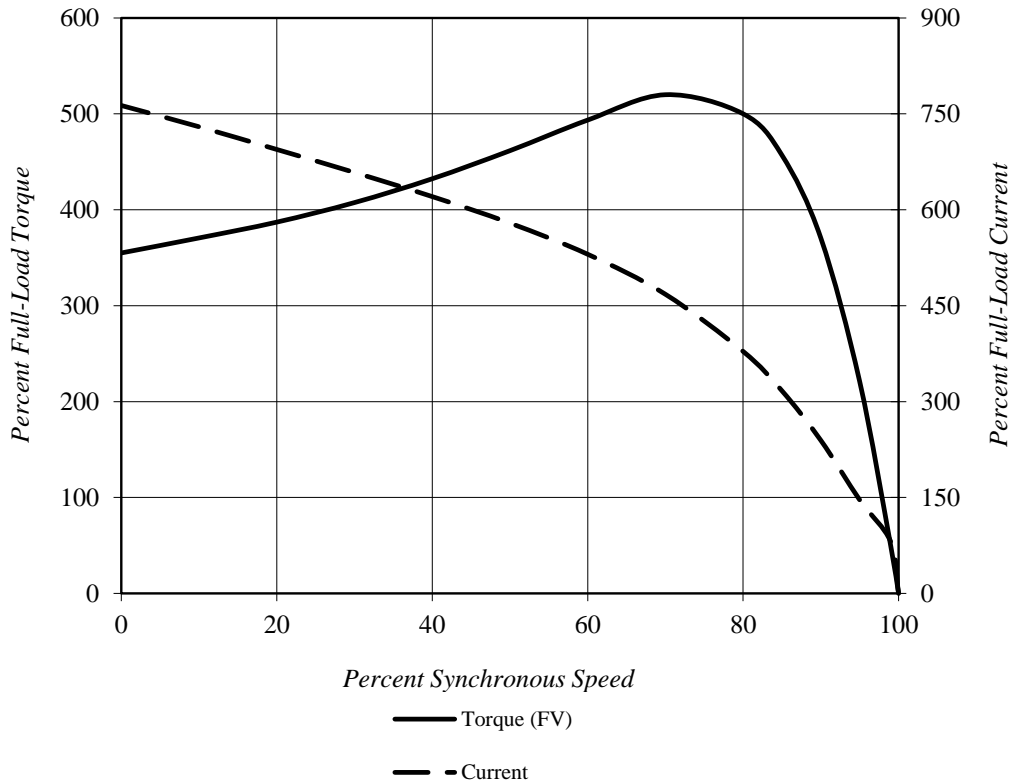
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)

Locked Rotor Amps:	50/29 A	Load Type:	N/A
Locked Rotor Torque:	355%	Starting at:	N/A
Breakdown Torque:	520%	Accel. Time:	N/A
Rated Torque:	10.8 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

Prepared by: Zichao Xie

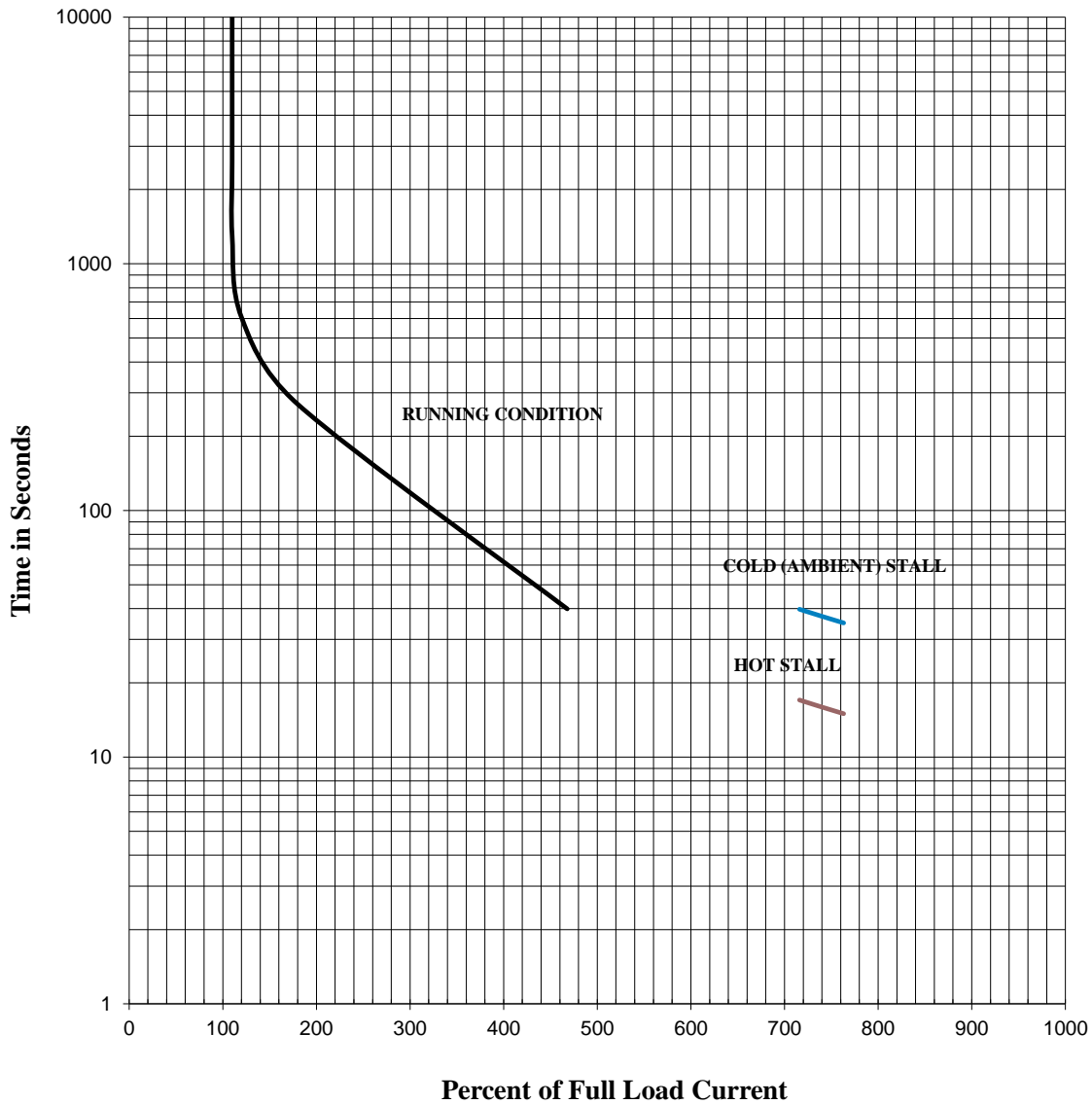
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	240/415 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)



Comments: PROJECT -

D.E.Curve #: GH6Y15 (1.5kW)

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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: 1000
FRAME: 100L	ENCL: TEFC	FLAMPS: 6.6/3.8	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y156SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 82.5	MIN. EFF.: -	cosØ 0.69	

AMPERAGE

LOCKED ROTOR: 45/26

TORQUES

FULL LOAD (lb-ft.): 10.9
LOCKED ROTOR (%): 280
BREAK DOWN (%): 445

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 86.5
3/4 LOAD: 86.0
1/2 LOAD: 83.1

POWER FACTOR

FULL LOAD: 69.0
3/4 LOAD: 61.8
1/2 LOAD: 49.9

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).

CERTIFIED BY: Zichao Xie

DATE: 6/25/2020

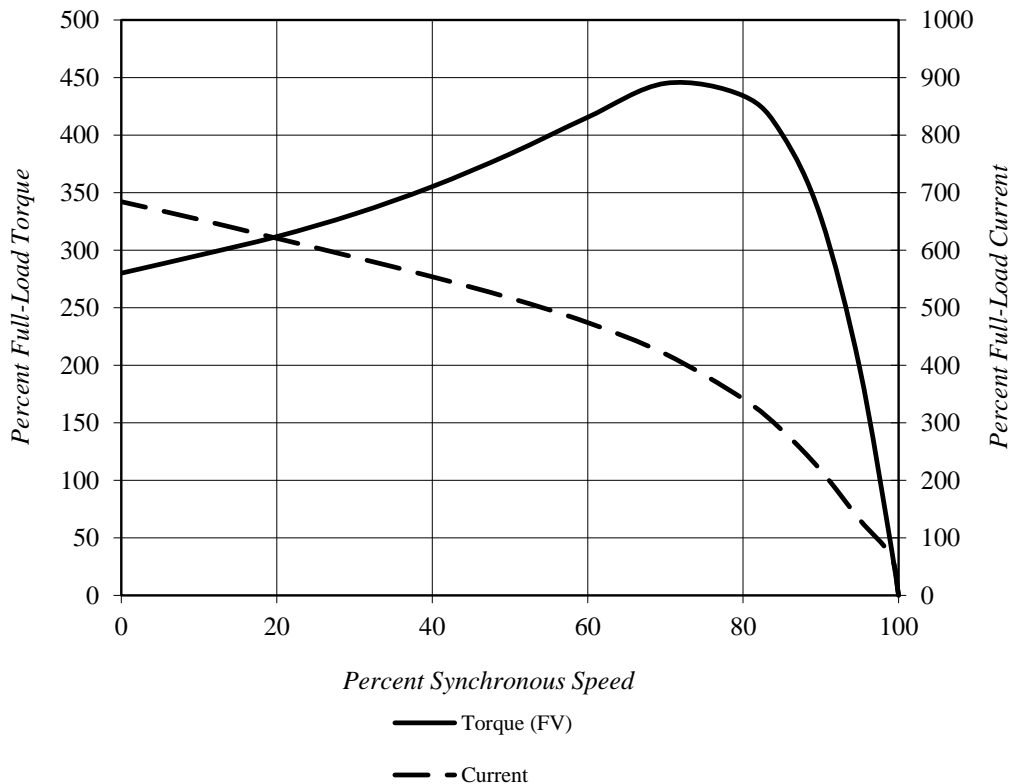
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)

Locked Rotor Amps:	45/26 A	Load Type:	N/A
Locked Rotor Torque:	280%	Starting at:	N/A
Breakdown Torque:	445%	Accel. Time:	N/A
Rated Torque:	10.9 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y15 (1.5kW)

Prepared by: Zichao Xie

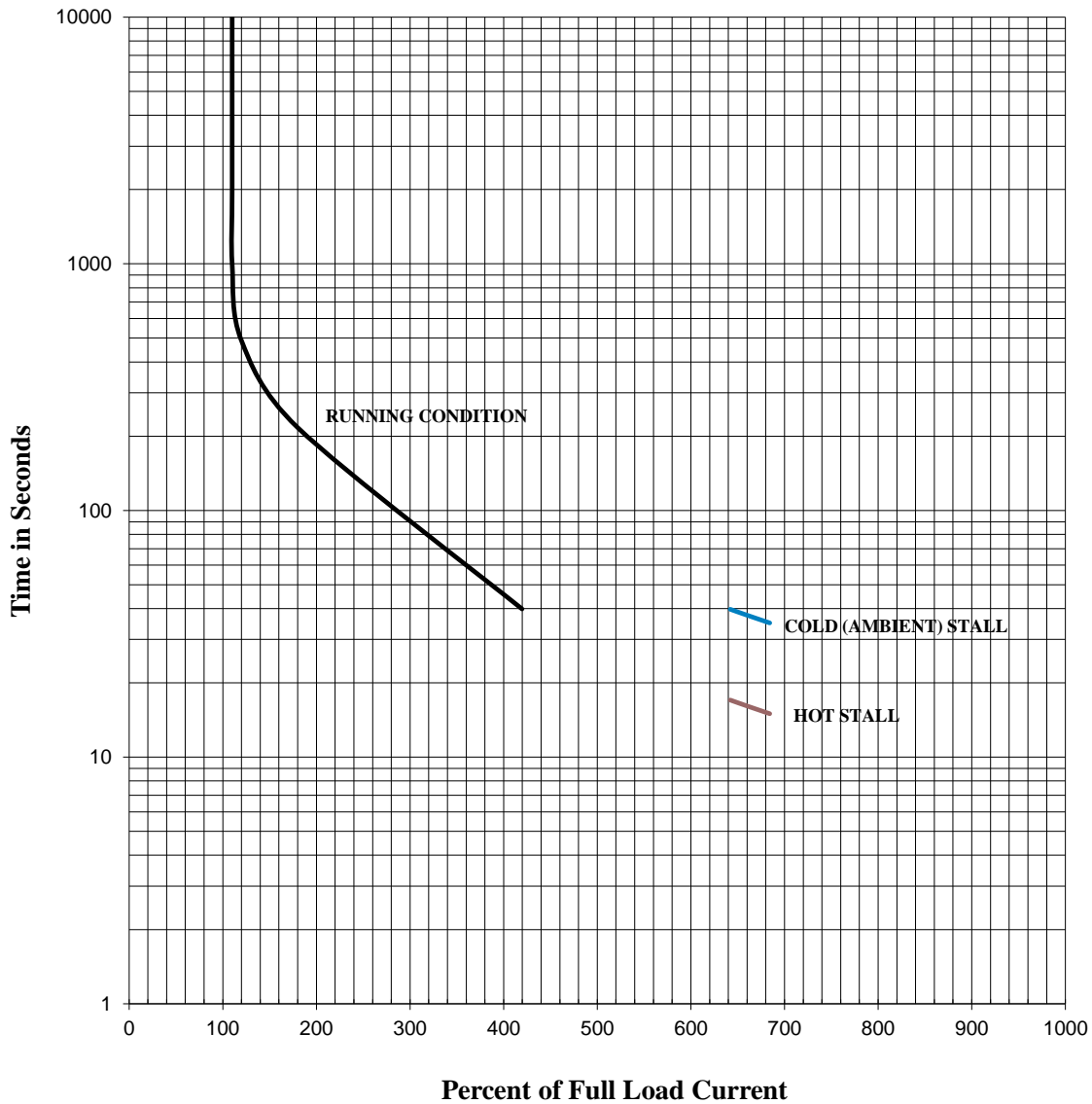
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y156SDMV7FS-PL			FLAmps:	6.6/3.8
Enclosure:	TEFC	Voltage:	220/380 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	1.5	Rotor Inertia:	0.39 lb-ft ²	Date:	6/25/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 2	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 100L	ENCL: TEFC	FLAMPS: 3.4	FLRPM: 1175
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: Y156SDMV7FS-PL		kW: 1.5	
NOM. EFF.: 88.5	MIN. EFF.: -	P.F.: 62.0	

AMPERAGE

LOCKED ROTOR: 27

TORQUES

FULL LOAD (lb-ft.): 8.9
LOCKED ROTOR (%): 375
BREAK DOWN (%): 520

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 87.8
3/4 LOAD: 86.2
1/2 LOAD: 82.1

POWER FACTOR

FULL LOAD: 62.4
3/4 LOAD: 54.4
1/2 LOAD: 42.6

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).

CERTIFIED BY: Zichao Xie

DATE: 6/9/2020

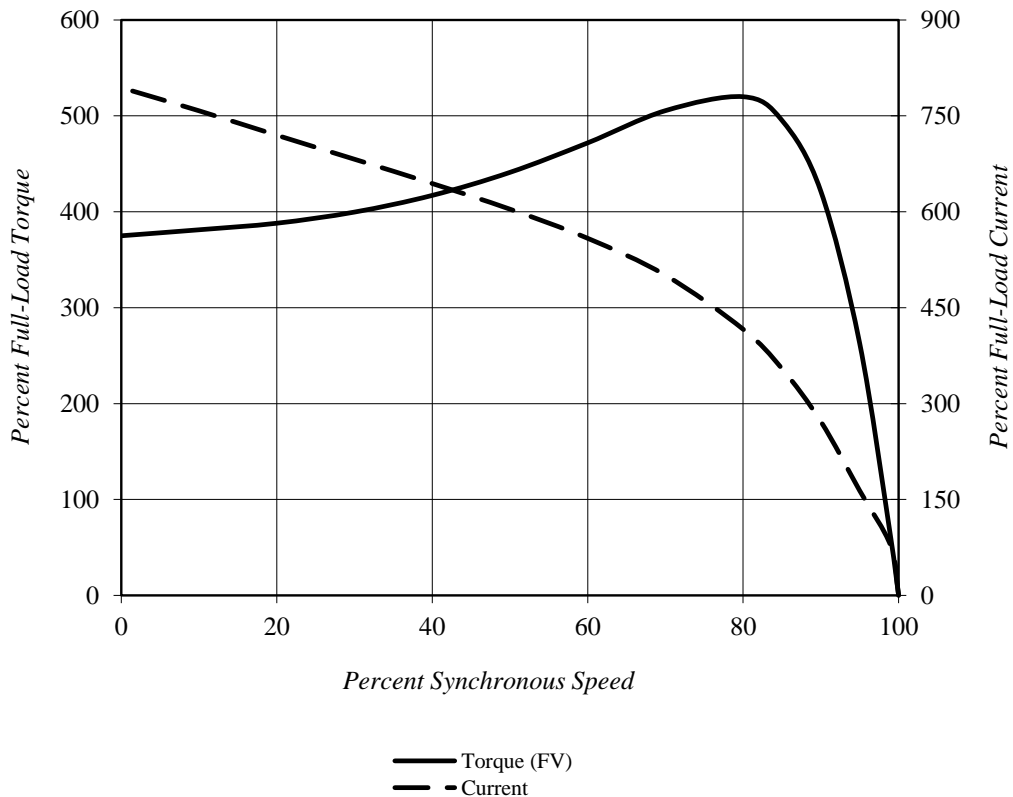
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y156SDMV7FS-PL			FLAmps:	3.4
Enclosure:	TEFC	Voltage:	460 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	2	Rotor Inertia:	0.39 lb-ft ²	Date:	6/9/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)

Locked Rotor Amps:	27 A	Load Type:	N/A
Locked Rotor Torque:	375%	Starting at:	N/A
Breakdown Torque:	520%	Accel. Time:	N/A
Rated Torque:	8.9 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

Prepared by: Zichao Xie

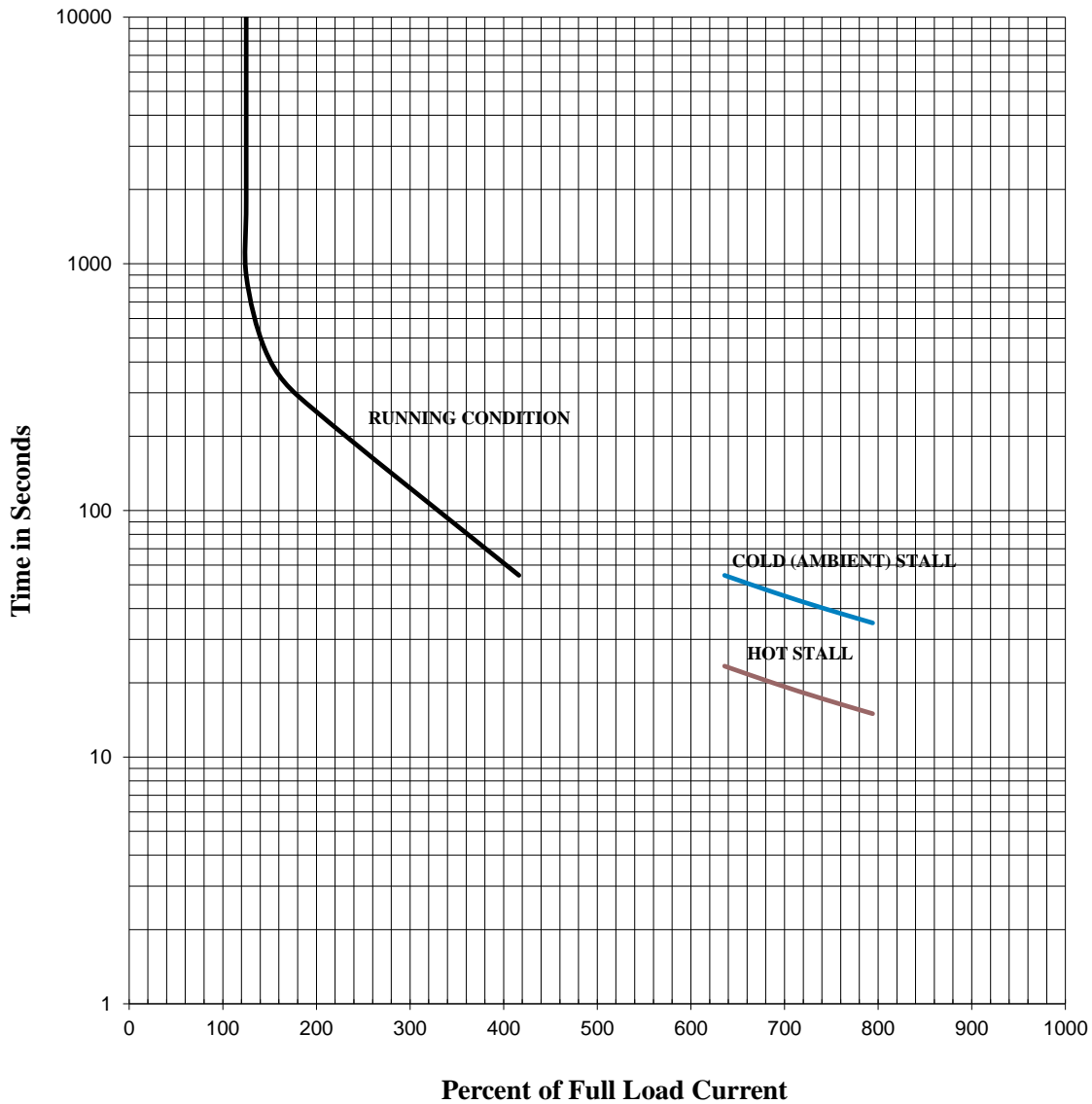
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y156SDMV7FS-PL			FLAmps:	3.4
Enclosure:	TEFC	Voltage:	460 V	Frame:	100L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	2	Rotor Inertia:	0.39 lb-ft ²	Date:	6/9/2020
FLRPM:	1175	Load Inertia:	N/A	File:	GH6Y15 (1.5kW)



Comments: PROJECT -

D.E. Curve #: GH6Y15 (1.5kW)

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Checked by: