

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
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P
400V

TOLERANCES
X. ±2.0
X.X ±0.5
X.XX ±0.1

3HFN000155P001

FRAME: 160M

MAXIMUM
MOTOR WEIGHT
- lbs.
- kgs.

EQP Global SD
XT SERIES

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

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

NO	REVISION	DRAWN BY	DATE	CHECK

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: 160M	ENCL: TEFC	FLAMPS: 15.4	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7FS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.78	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 105	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 295	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.0	FULL LOAD: 78.0
3/4 LOAD: 90.1	3/4 LOAD: 73.7
1/2 LOAD: 88.7	1/2 LOAD: 63.9

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: 9/10/2020

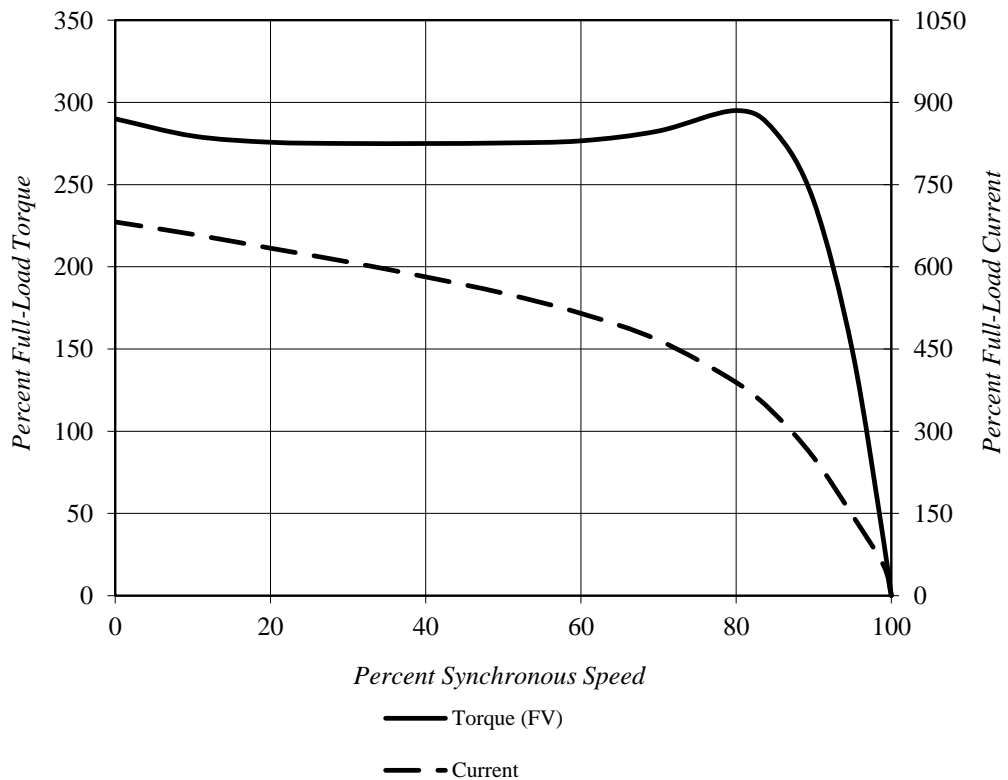
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7FS-PL			FLAmps:	15.4
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)

Locked Rotor Amps:	105 A	Load Type:	N/A
Locked Rotor Torque:	290%	Starting at:	N/A
Breakdown Torque:	295%	Accel. Time:	N/A
Rated Torque:	55 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

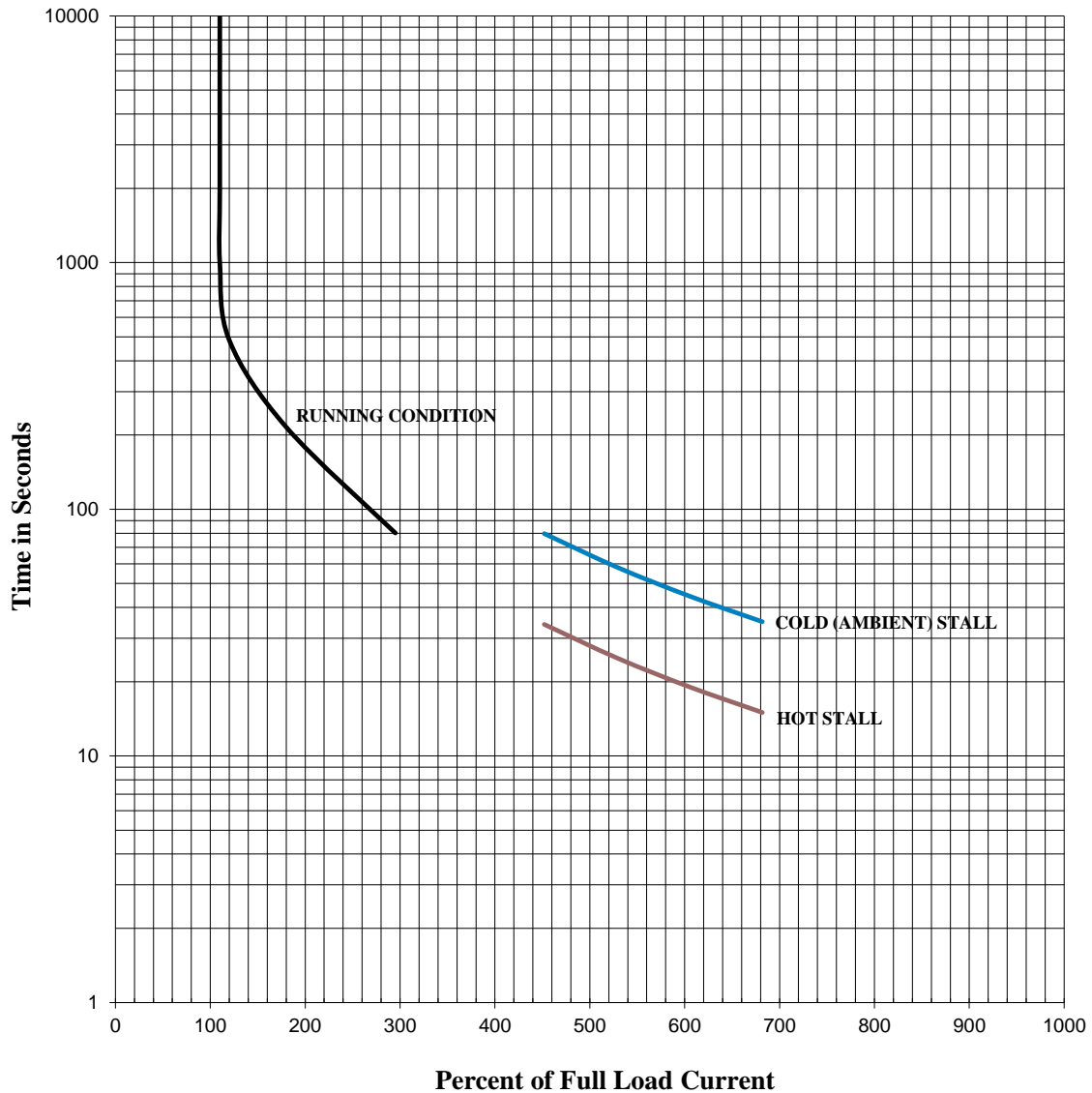
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7FS-PL			FLAmps:	15.4
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

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: 160M	ENCL: TEFC	FLAMPS: 14.9	FLRPM: 970
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7FS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 109	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 315	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 315	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.6	FULL LOAD: 77.5
3/4 LOAD: 90.5	3/4 LOAD: 72.2
1/2 LOAD: 88.8	1/2 LOAD: 61.4

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.
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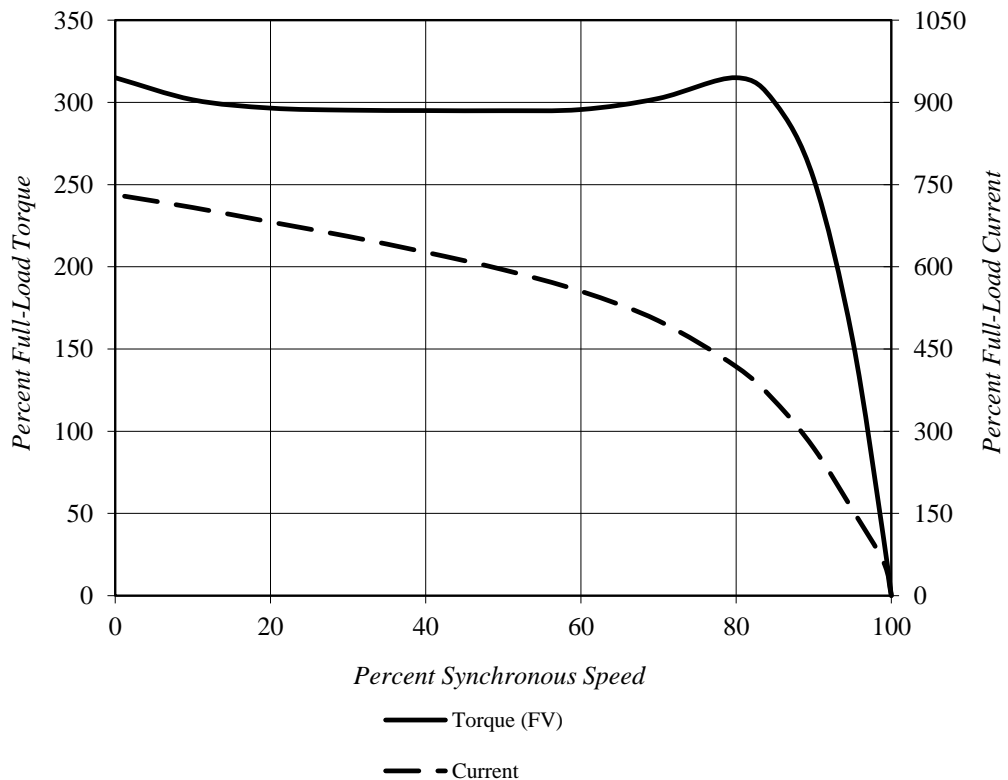
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7FS-PL			FLAmps:	14.9
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)

Locked Rotor Amps:	109 A	Load Type:	N/A
Locked Rotor Torque:	315%	Starting at:	N/A
Breakdown Torque:	315%	Accel. Time:	N/A
Rated Torque:	55 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

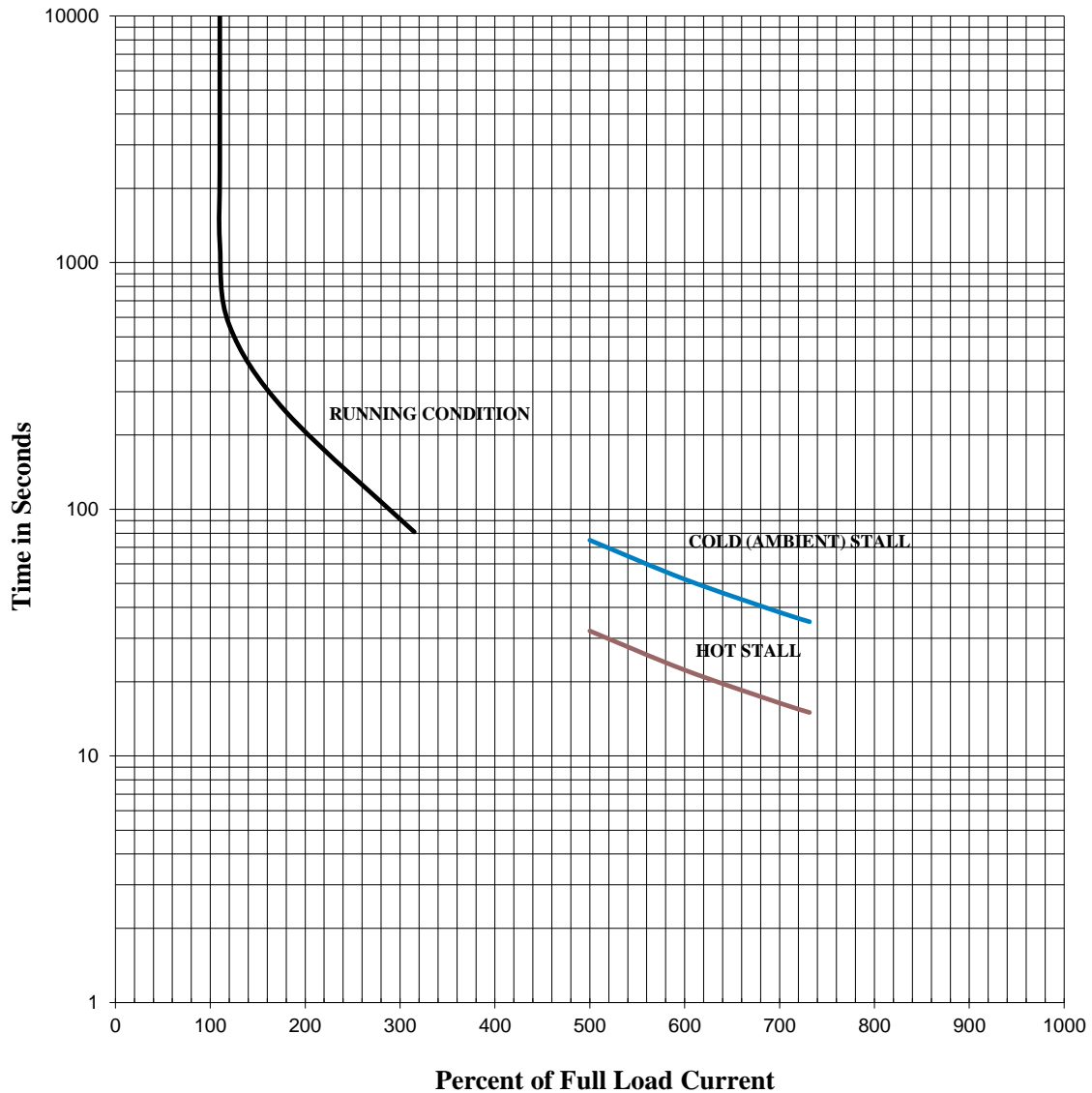
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7FS-PL			FLAmps:	14.9
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	970	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 160M	ENCL: TEFC	FLAMPS: 15.9	FLRPM: 965
FORM: FBK1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y756SDMW7FS-PL		kW: 7.5	
NOM. EFF.: 89.1	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 98	FULL LOAD (lb-ft.): 55	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 250	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 270	

EFFICIENCY	POWER FACTOR
FULL LOAD: 89.5	FULL LOAD: 80.1
3/4 LOAD: 89.9	3/4 LOAD: 76.5
1/2 LOAD: 89.0	1/2 LOAD: 67.8

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE, FREQUENCY AND SINEWAVE POWER INPUT.
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DATE: 9/10/2020

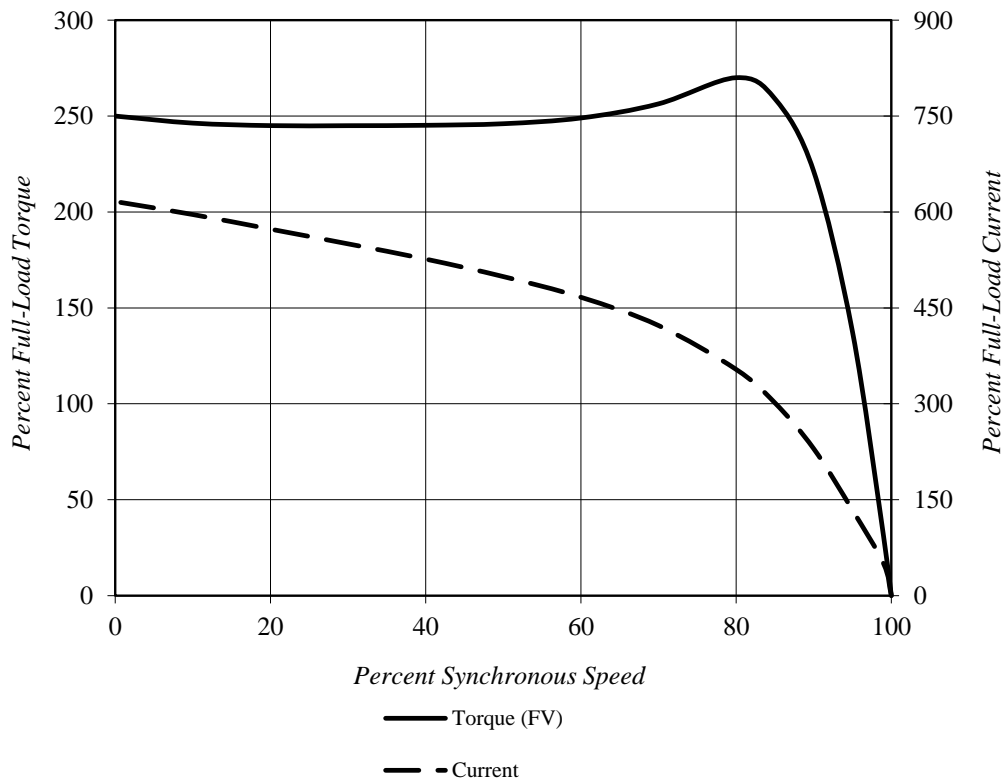
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7FS-PL			FLAmps:	15.9
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)

Locked Rotor Amps:	98 A	Load Type:	N/A
Locked Rotor Torque:	250%	Starting at:	N/A
Breakdown Torque:	270%	Accel. Time:	N/A
Rated Torque:	55 lb-ft		

Design Values



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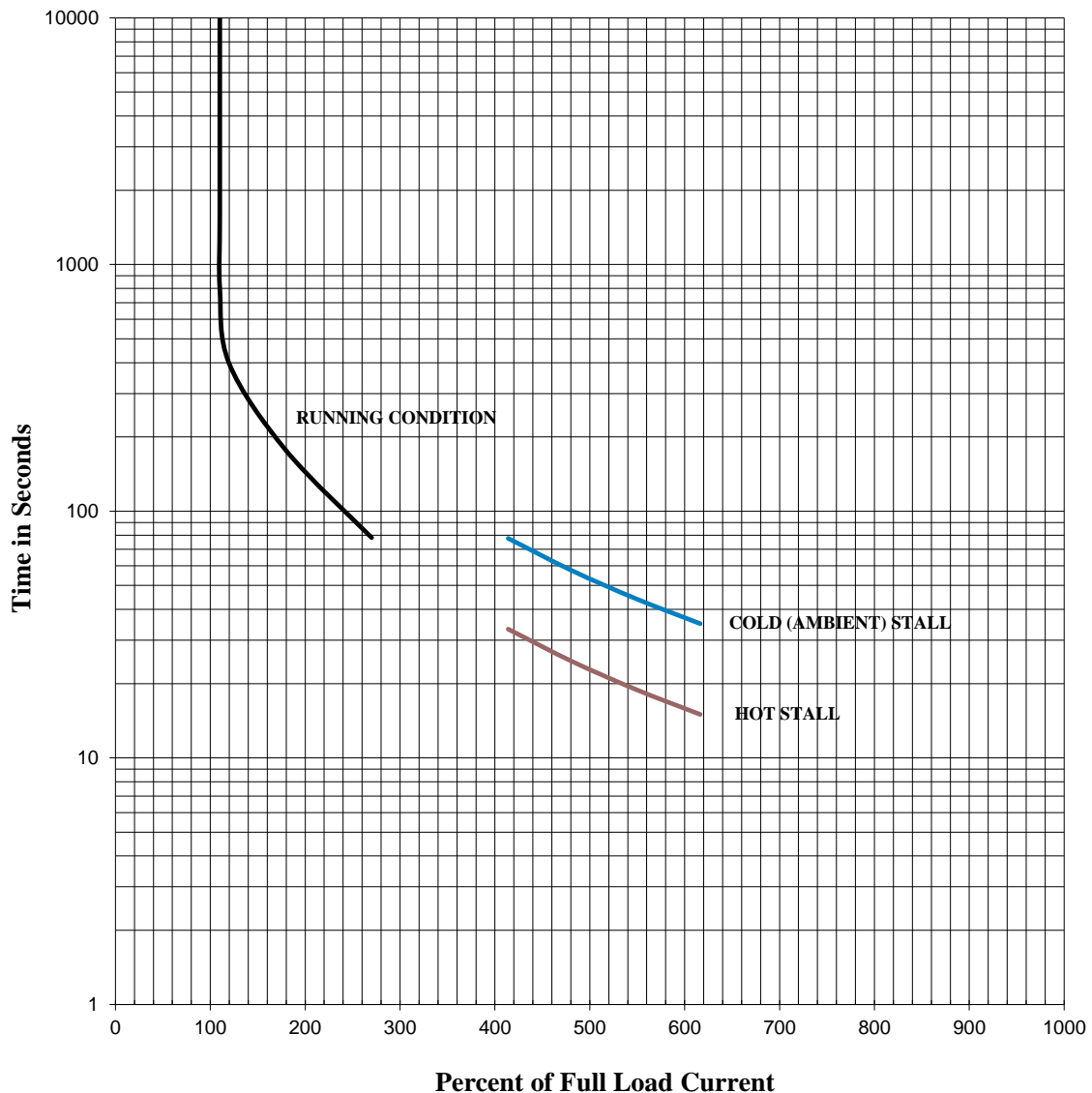
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7FS-PL			FLAmps:	15.9
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	7.5	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	965	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)



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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 10	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 160M	ENCL: TEFC	FLAMPS: 13.5	FLRPM: 1170
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: Y756SDMW7FS-PL		KW: 7.5	
NOM. EFF.: 91.0	MIN. EFF.: -	P.F.: 76.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 106	FULL LOAD (lb-ft.): 45	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 335	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 310	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.4	FULL LOAD: 76.3
3/4 LOAD: 91.0	3/4 LOAD: 71.2
1/2 LOAD: 89.0	1/2 LOAD: 60.7

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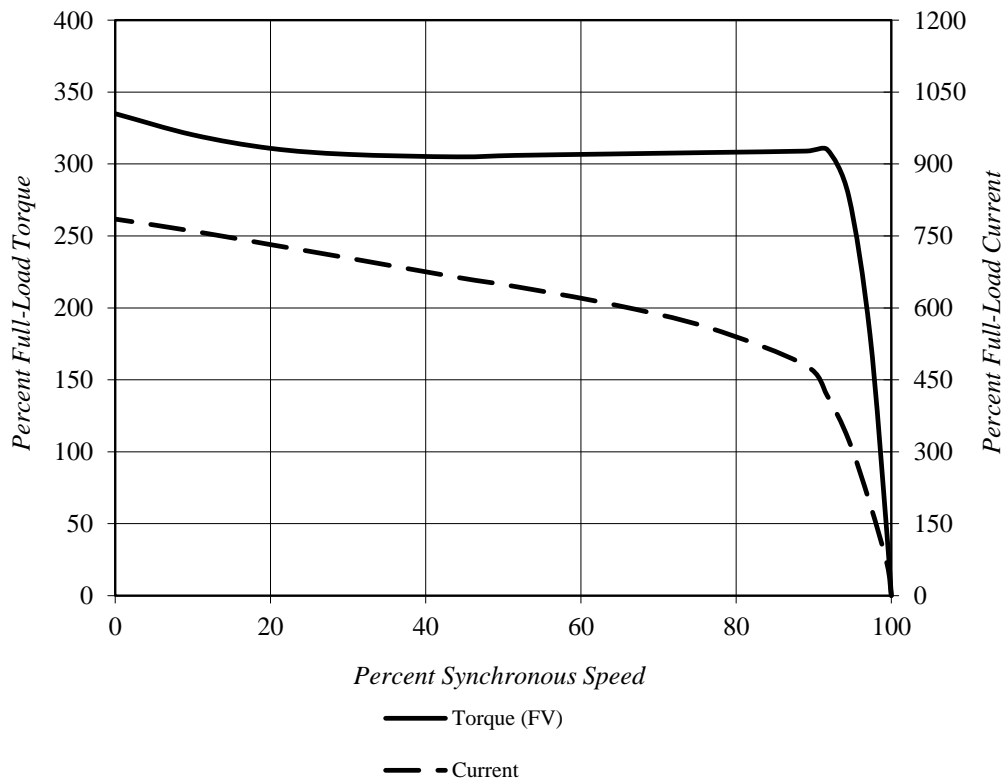
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7FS-PL			FLAmps:	13.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	10	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	1170	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)

Locked Rotor Amps:	106 A	Load Type:	N/A
Locked Rotor Torque:	335%	Starting at:	N/A
Breakdown Torque:	310%	Accel. Time:	N/A
Rated Torque:	45 lb-ft		

Design Values



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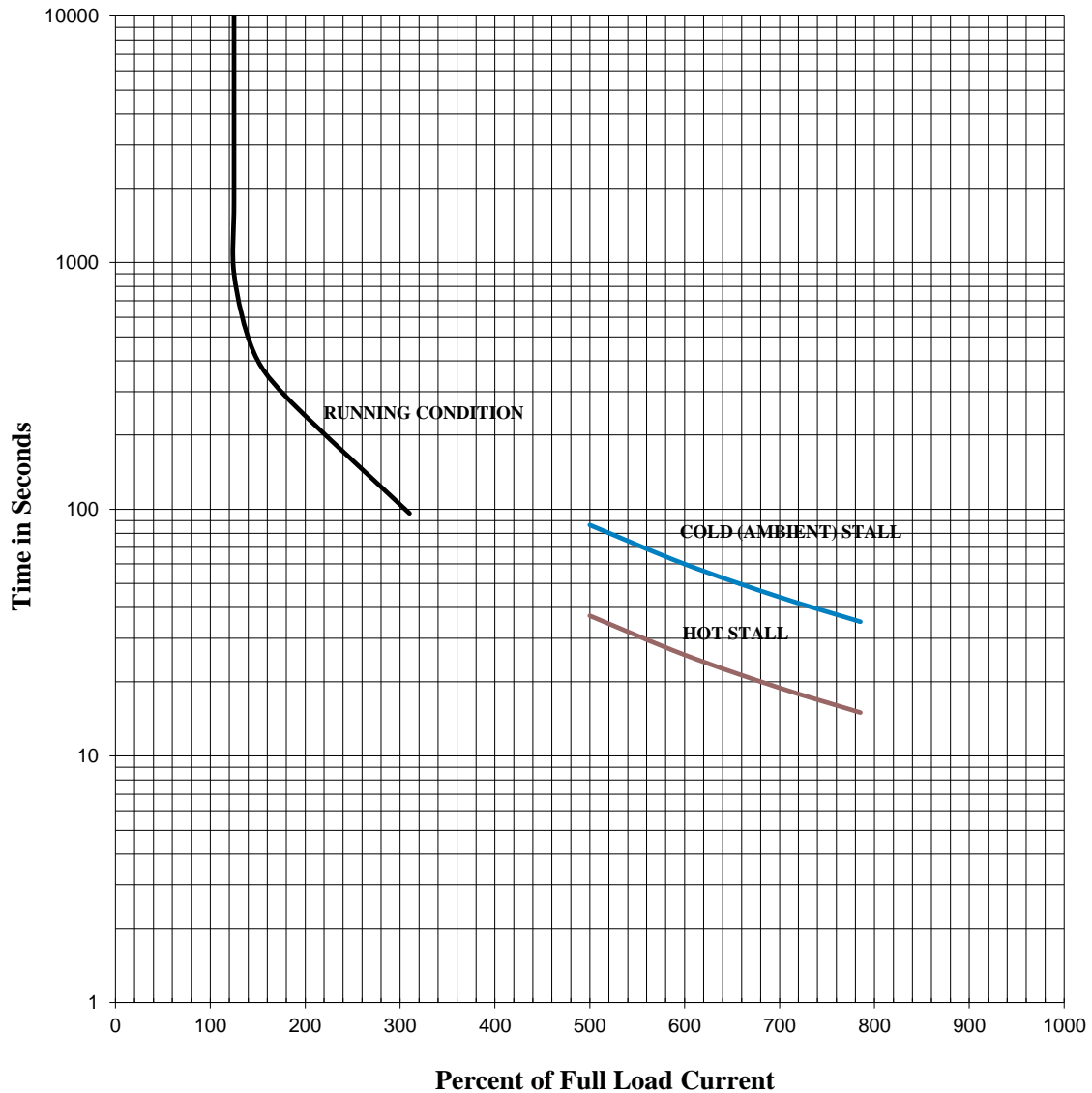
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7FS-PL			FLAmps:	13.5
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	10	Rotor Inertia:	2.9 lb-ft ²	Date:	9/10/2020
FLRPM:	1170	Load Inertia:	N/A	File:	GH6Y75 (7.5kW)



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