

UNIT: mm

ROTATION:
 CCW
 VIEW FROM:
 ODE

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B34-FLANGE MOTOR
 OL DRAWING IEC GLOBAL
 3HFN000291

TYPE: 2-4-6P
 400V
 FRAME: 160I

TOLERANCES
 X. ± 2.0
 XX ± 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

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 TOSHIBA INTERNATIONAL CORPORATION

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: 1500
FRAME: 160L	ENCL: TEFC	FLAMPS: 29	FLRPM: 1470
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0154SDMW7HS-PL		kW: 15	
NOM. EFF.: 92.1	MIN. EFF.: -	cosØ 0.80	

AMPERAGE

LOCKED ROTOR: 245

TORQUES

FULL LOAD (lb-ft.): 72
LOCKED ROTOR (%): 330
BREAK DOWN (%): 375

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.3
3/4 LOAD: 91.9
1/2 LOAD: 90.2

POWER FACTOR

FULL LOAD: 80.1
3/4 LOAD: 75.4
1/2 LOAD: 65.4

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: 10/18/2019

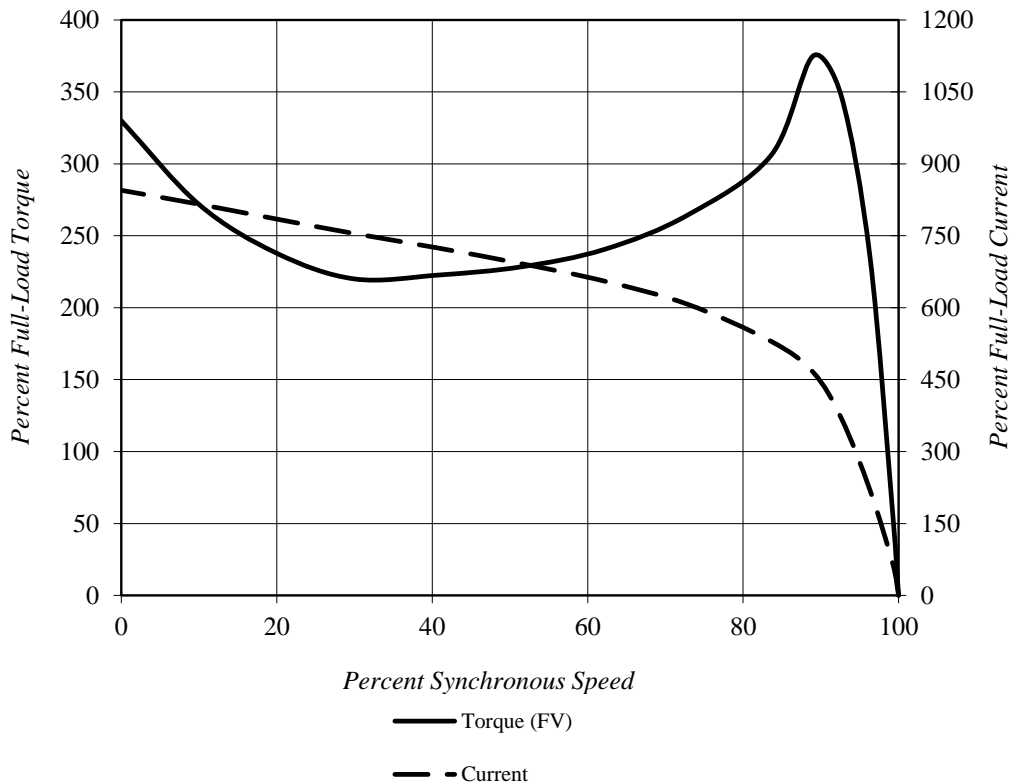
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7HS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4015 (15kW)

Locked Rotor Amps:	245 A	Load Type:	N/A
Locked Rotor Torque:	330%	Starting at:	N/A
Breakdown Torque:	375%	Accel. Time:	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

Prepared by: Zichao Xie

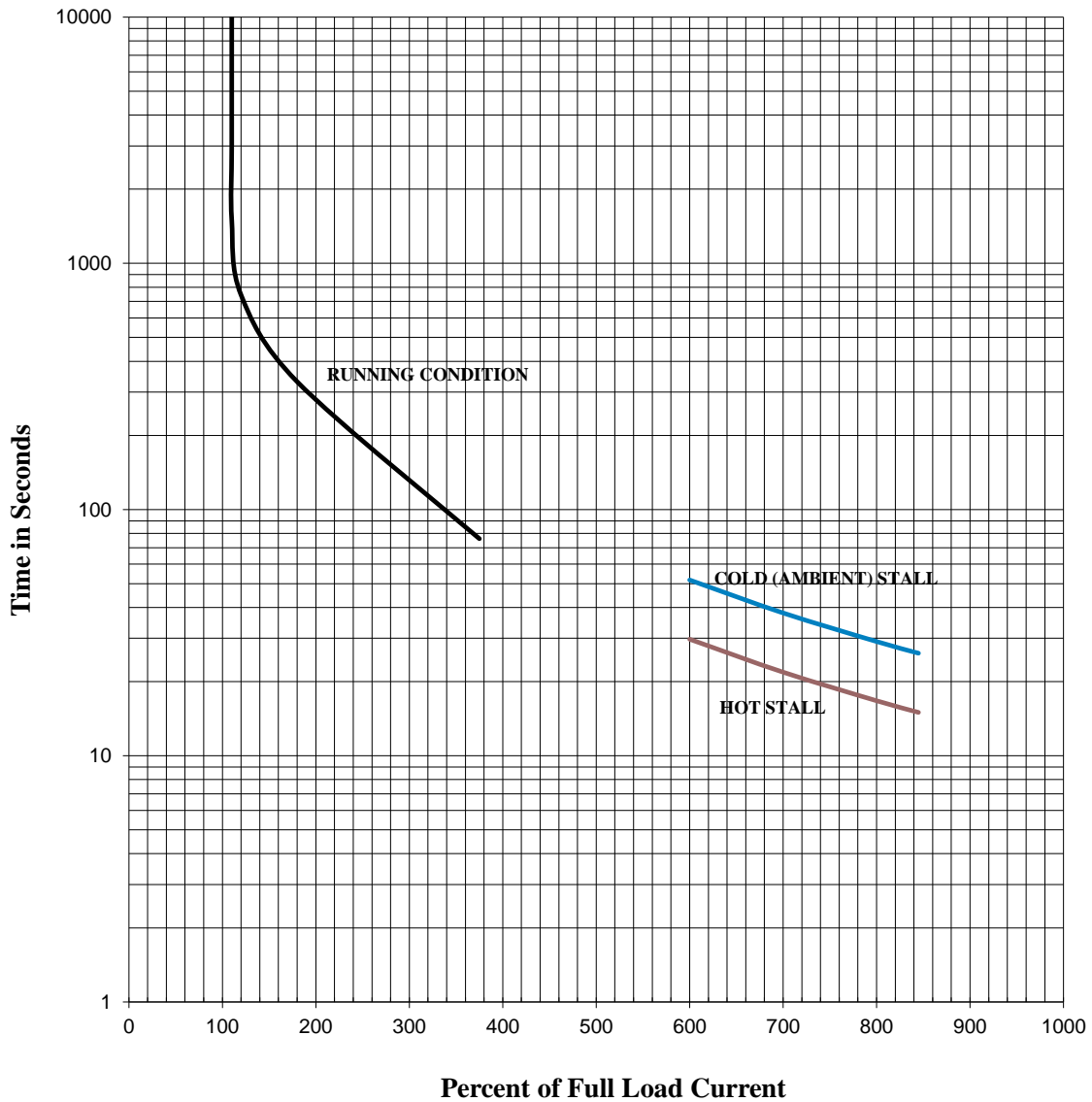
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7HS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4015 (15kW)



Comments: PROJECT -

D.E. Curve #: GH4015 (15kW)

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: 415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 160L	ENCL: TEFC	FLAMPS: 29	FLRPM: 1470
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0154SDMW7HS-PL		kW: 15	
NOM. EFF.: 92.1	MIN. EFF.: -	cosØ 0.78	

AMPERAGE

LOCKED ROTOR: 256

TORQUES

FULL LOAD (lb-ft.): 72
LOCKED ROTOR (%): 380
BREAK DOWN (%): 395

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.4
3/4 LOAD: 91.8
1/2 LOAD: 89.9

POWER FACTOR

FULL LOAD: 78.5
3/4 LOAD: 72.8
1/2 LOAD: 61.5

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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DATE: 10/18/2019

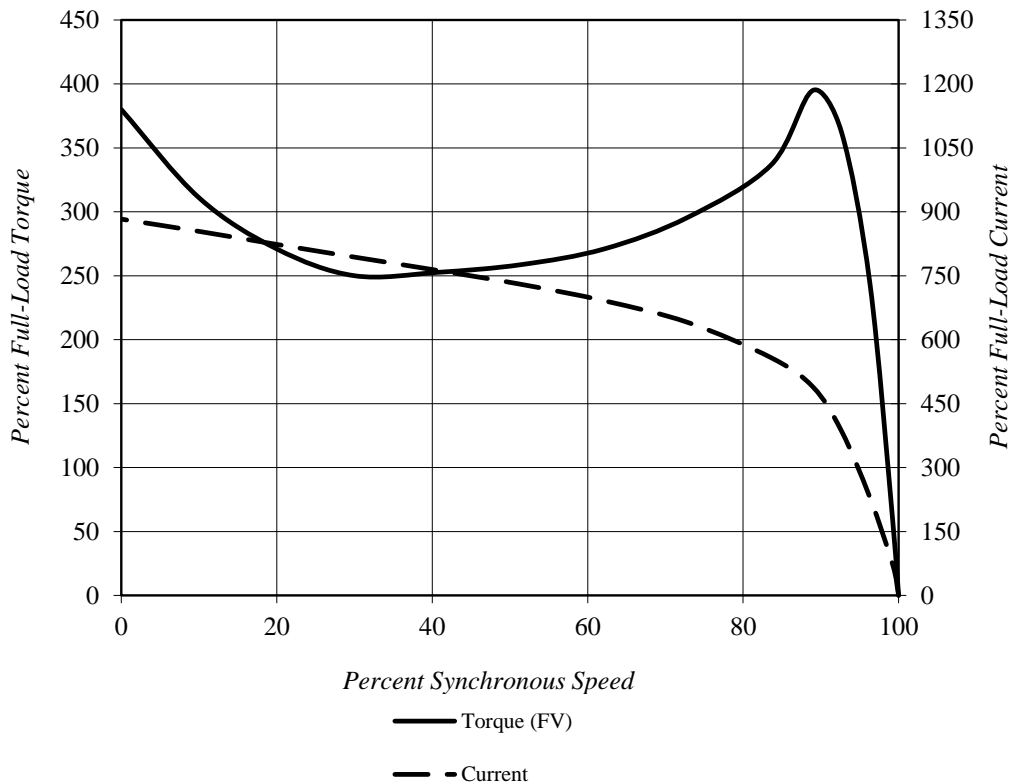
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7HS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4015 (15kW)

Locked Rotor Amps:	256 A	Load Type:	N/A
Locked Rotor Torque:	380%	Starting at:	N/A
Breakdown Torque:	395%	Accel. Time:	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

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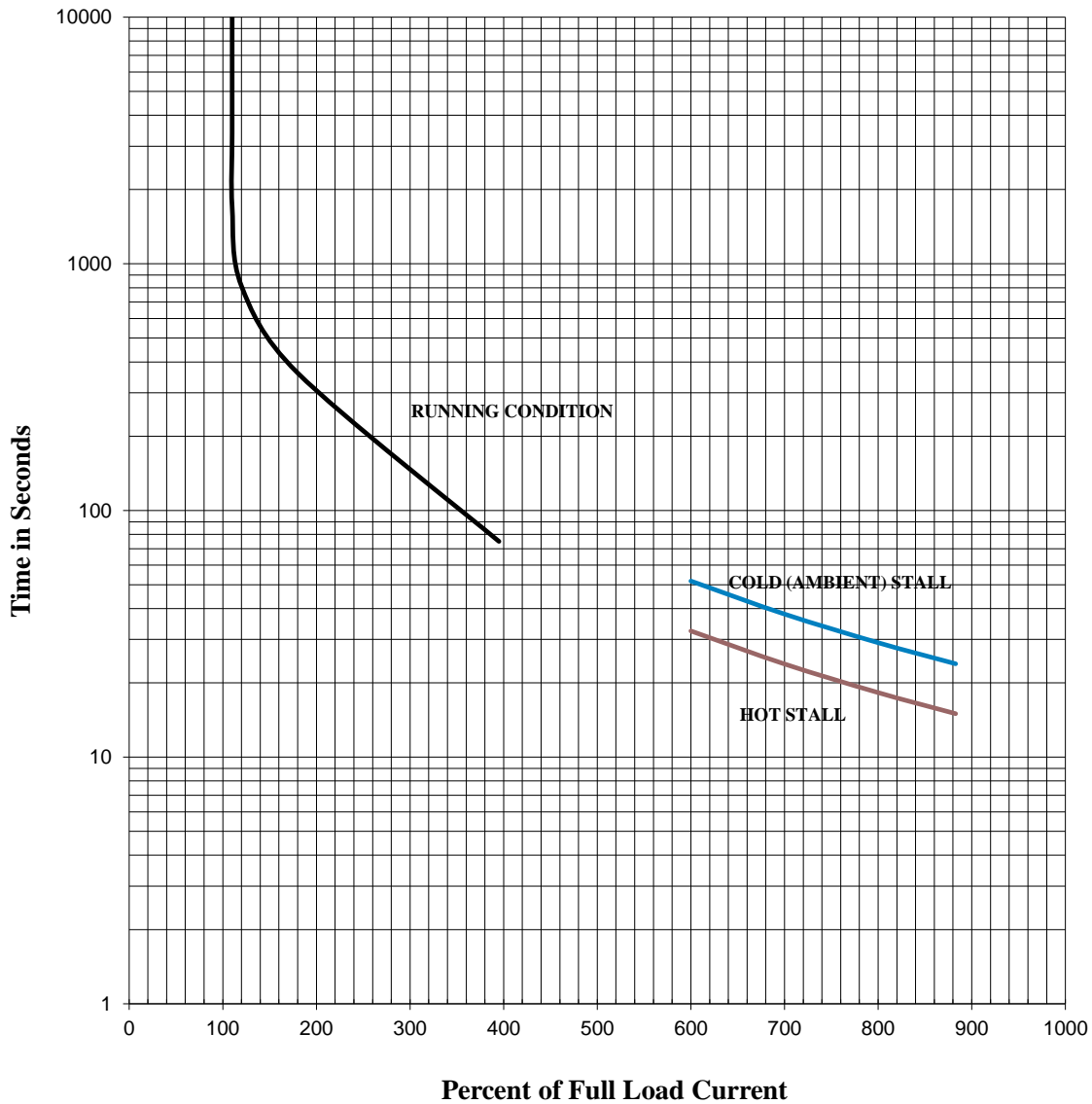
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7HS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1470	Load Inertia:	N/A	File:	GH4015 (15kW)



Comments: PROJECT -

D.E. Curve #: GH4015 (15kW)

Prepared by: Zichao Xie

Checked by:

TOSHIBA INTERNATIONAL CORPORATION Industrial Division / Houston Motor Plant SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS	INDEX	MPCF-1033
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	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 160L	ENCL: TEFC	FLAMPS: 30	FLRPM: 1465
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0154SDMW7HS-PL		kW: 15	
NOM. EFF.: 92.1	MIN. EFF.: -	cosØ 0.82	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 231	FULL LOAD (lb-ft.): 72	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 310	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 340	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.8	FULL LOAD: 82.9
3/4 LOAD: 91.6	3/4 LOAD: 79.3
1/2 LOAD: 90.2	1/2 LOAD: 70.9

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.
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DATE: 10/18/2019

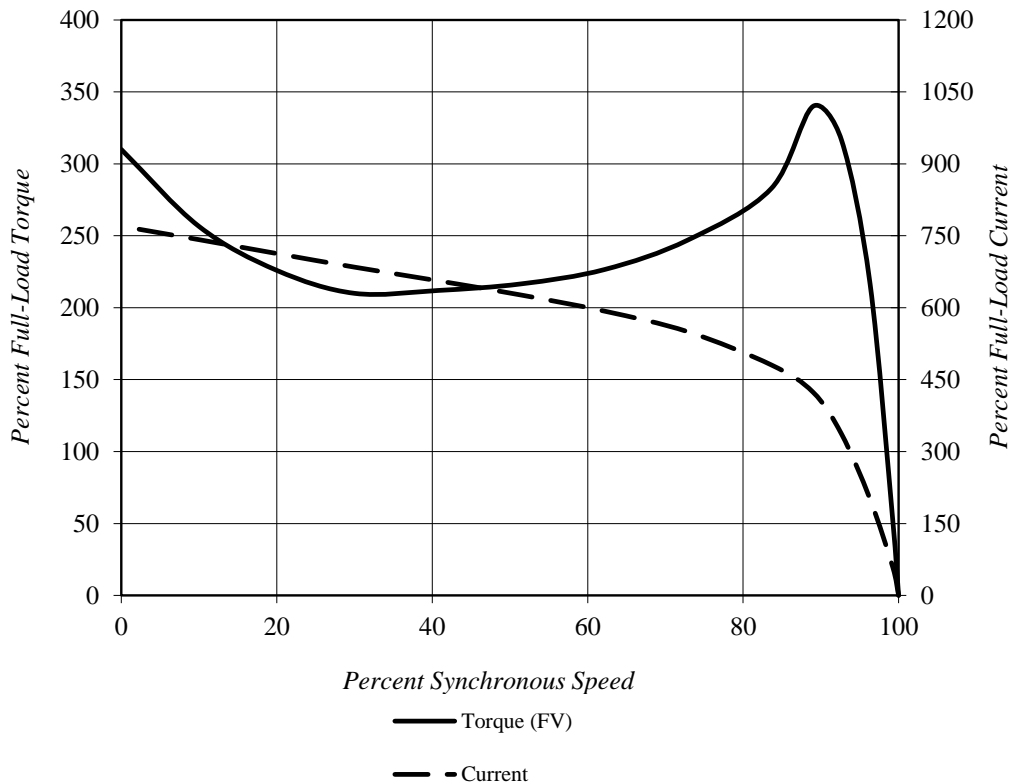
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7HS-PL			FLAmps:	30
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4015 (15kW)

Locked Rotor Amps:	231 A	Load Type:	N/A
Locked Rotor Torque:	310%	Starting at:	N/A
Breakdown Torque:	340%	Accel. Time:	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

Prepared by: Zichao Xie

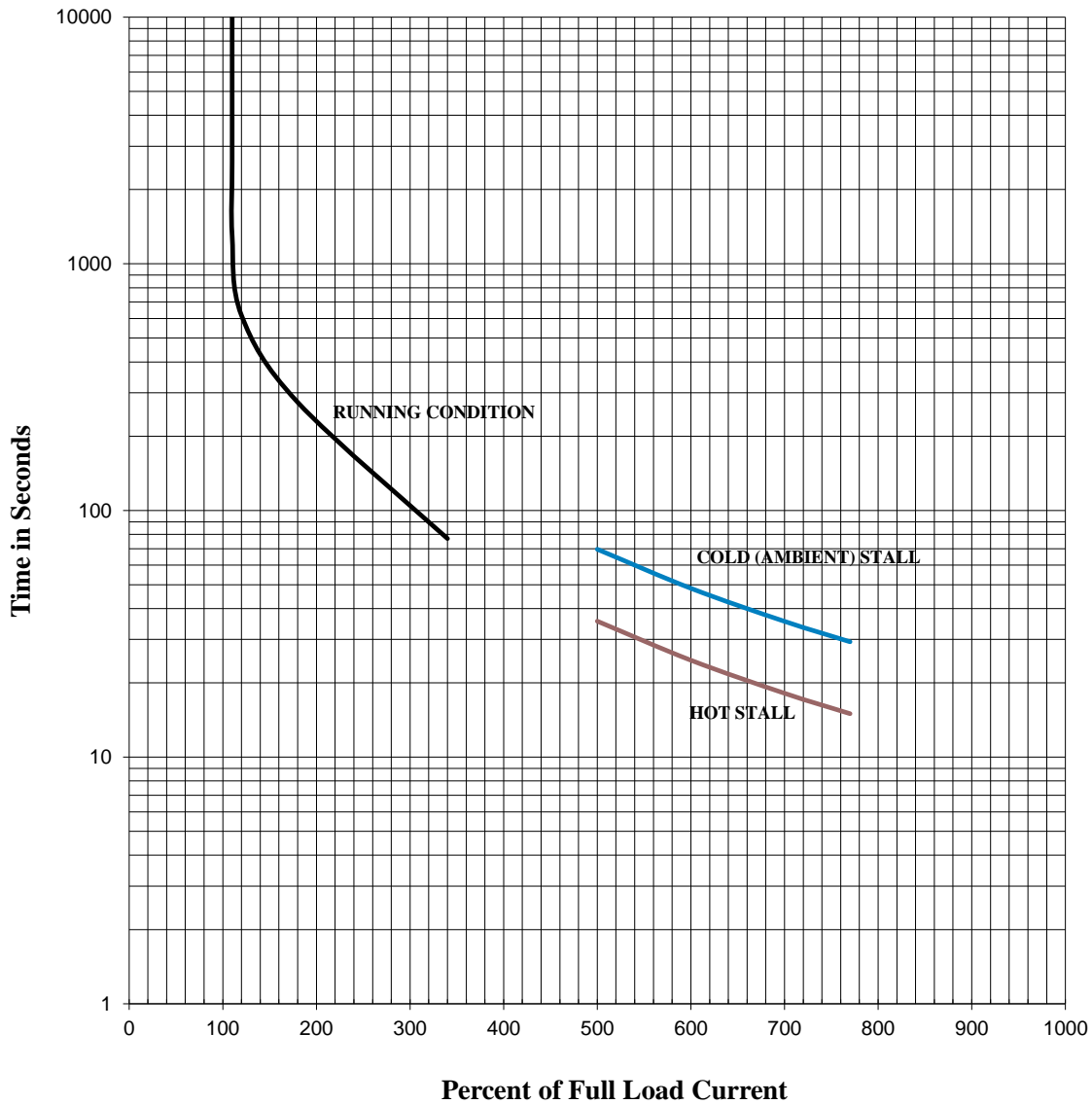
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Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7HS-PL			FLAmps:	30
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1465	Load Inertia:	N/A	File:	GH4015 (15kW)



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D.E.Curve #: GH4015 (15kW)

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CUSTOMER: -
 TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 20	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 160L	ENCL: TEFC	FLAMPS: 26	FLRPM: 1775
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0154SDMW7HS-PL		kW: 15	
NOM. EFF.: 93.0	MIN. EFF.: -	P.F.: 79.0	

AMPERAGE

LOCKED ROTOR: 242

TORQUES

FULL LOAD (lb-ft.): 59
 LOCKED ROTOR (%): 405
 BREAK DOWN (%): 405

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 93.0
 3/4 LOAD: 92.2
 1/2 LOAD: 90.0

POWER FACTOR

FULL LOAD: 79.4
 3/4 LOAD: 74.4
 1/2 LOAD: 64.1

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE,
 FREQUENCY AND SINEWAVE POWER INPUT.

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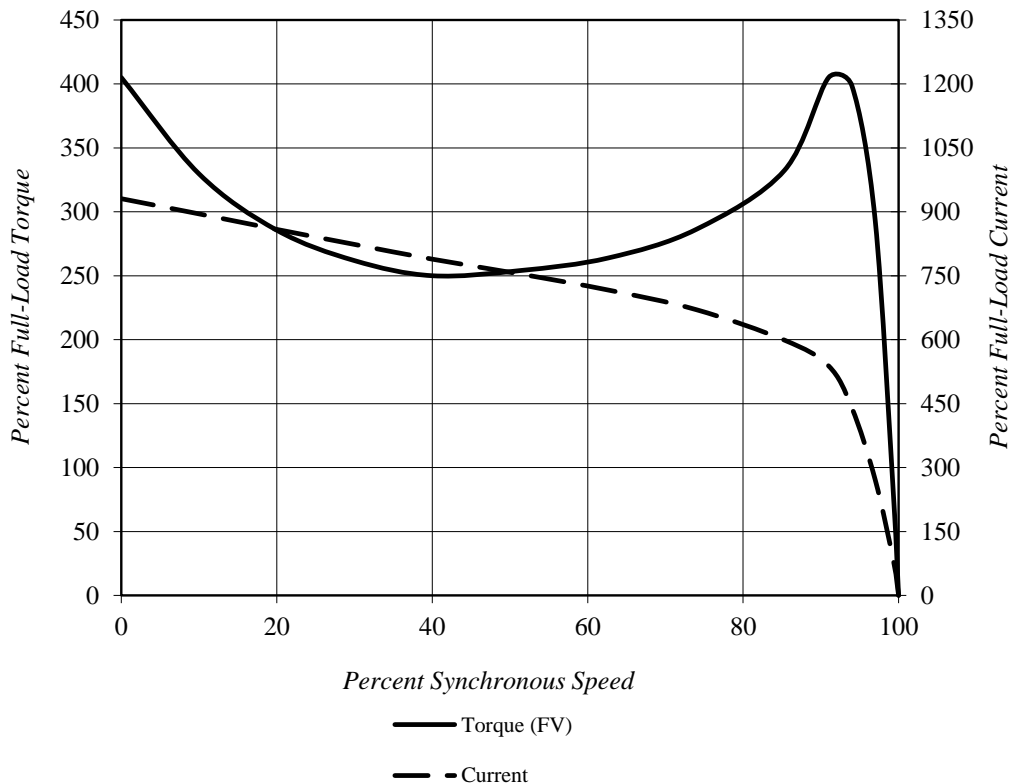
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7HS-PL			FLAmps:	26
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	20	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	GH4015 (15kW)

Locked Rotor Amps:	242 A	Load Type:	N/A
Locked Rotor Torque:	405%	Starting at:	N/A
Breakdown Torque:	405%	Accel. Time:	N/A
Rated Torque:	59 lb-ft		

Design Values



Comments: PROJECT -

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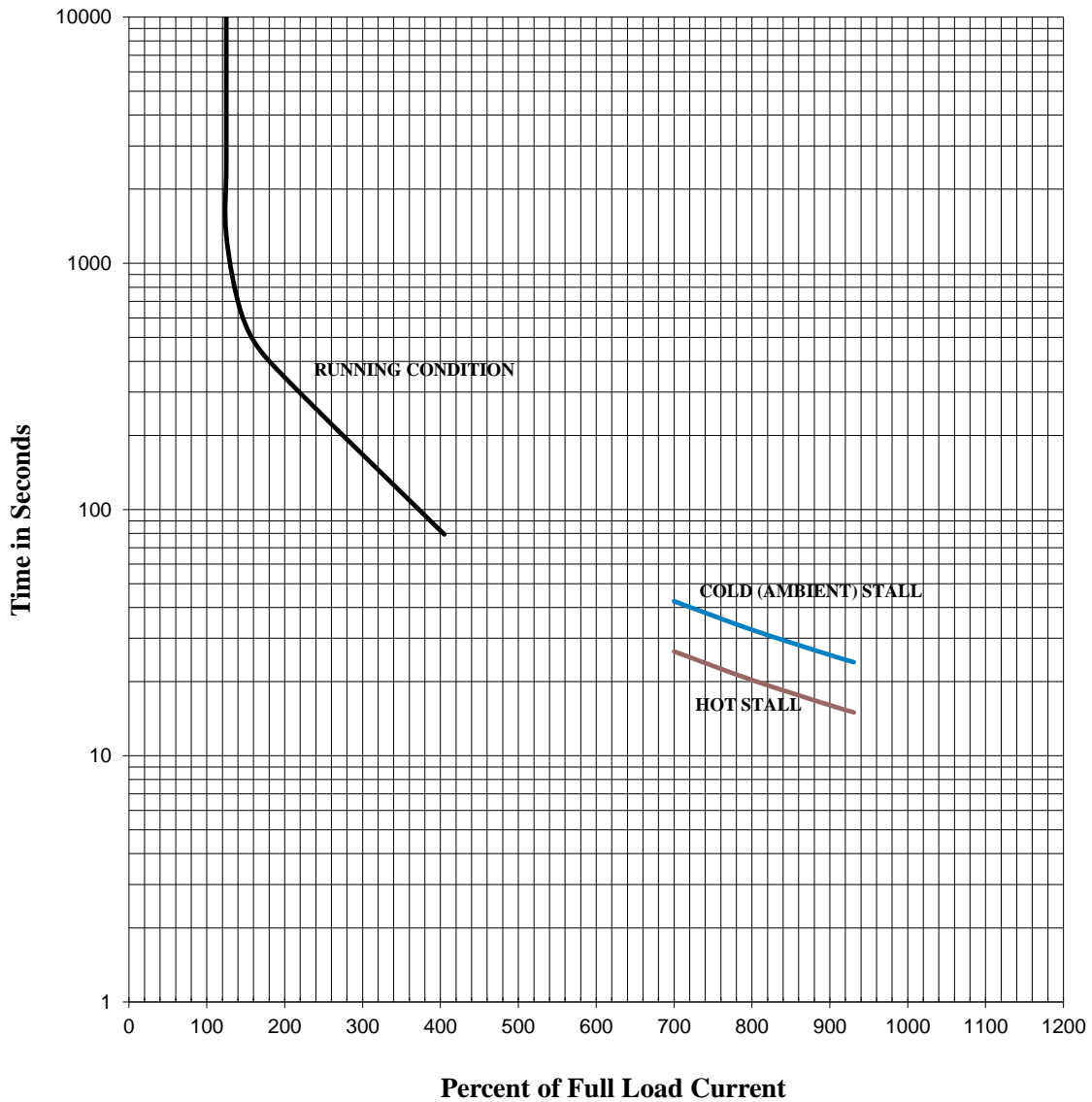
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Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7HS-PL			FLAmps:	26
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	20	Rotor Inertia:	3.1 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	GH4015 (15kW)



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