

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: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 28	FLRPM: 2935
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0152SDMW7GS-PL		kW: 15	
NOM. EFF.: 91.9	MIN. EFF.: -	cosØ 0.85	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 214	FULL LOAD (lb-ft.): 36	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 275	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 375	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.0	FULL LOAD: 85.6
3/4 LOAD: 91.4	3/4 LOAD: 81.6
1/2 LOAD: 89.4	1/2 LOAD: 72.5

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).

CERTIFIED BY: Zichao Xie
DATE: 8/5/2020

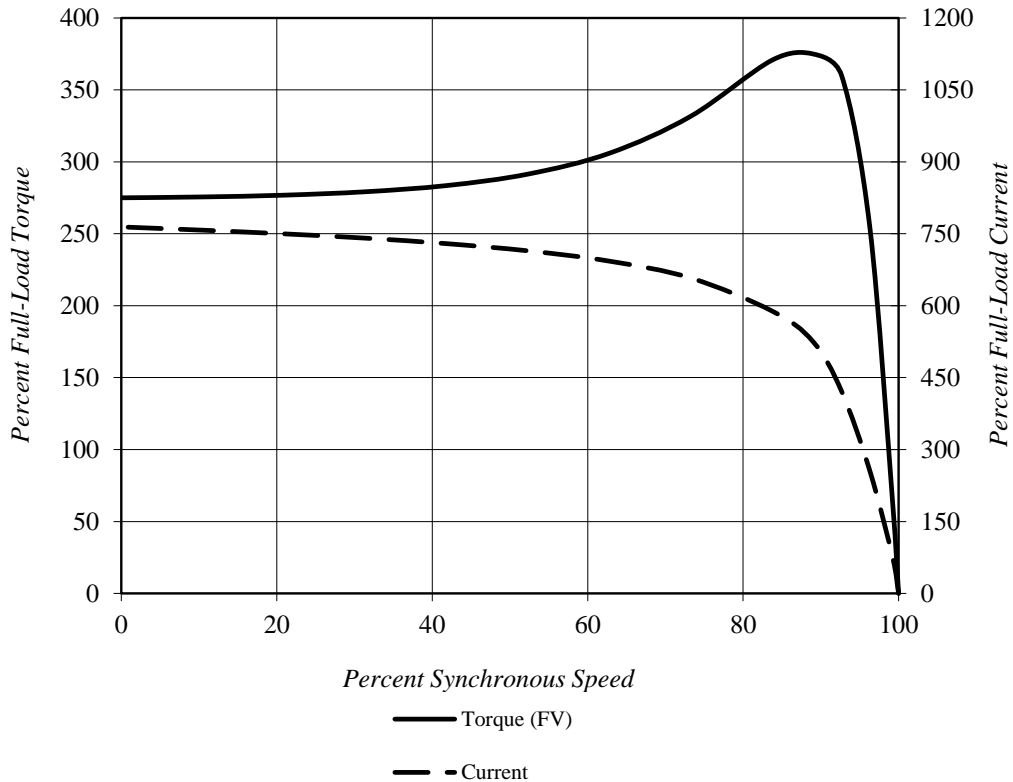
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7GS-PL			FLAmps:	28
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2935	Load Inertia:	N/A	File:	GH2015 (15kW)

Locked Rotor Amps:	214 A	Load Type:	N/A
Locked Rotor Torque:	275%	Starting at:	N/A
Breakdown Torque:	375%	Accel. Time:	N/A
Rated Torque:	36 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

Prepared by: Zichao Xie

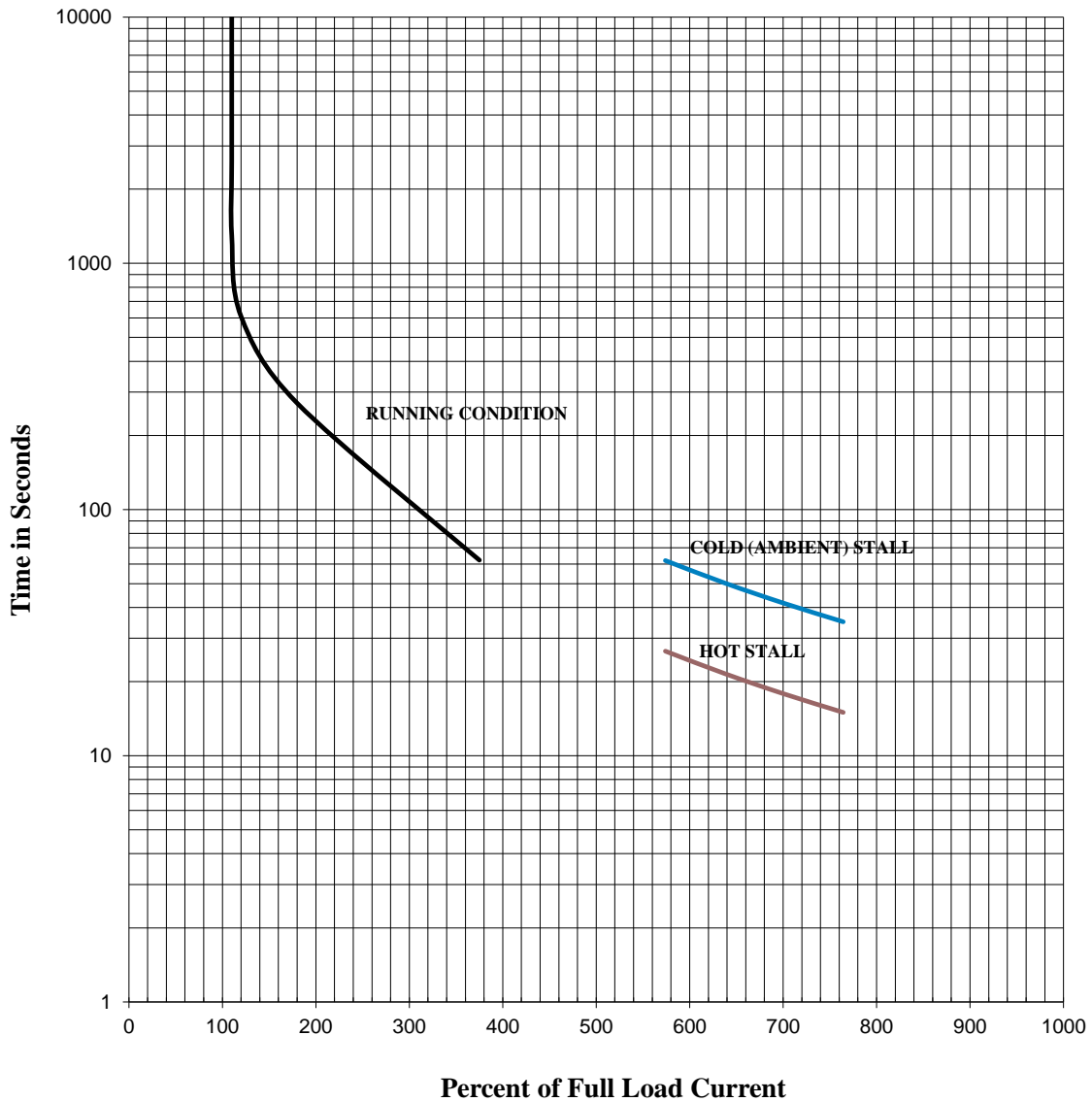
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7GS-PL			FLAmps:	28
Enclosure:	TEFC	Voltage:	400 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2935	Load Inertia:	N/A	File:	GH2015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 27	FLRPM: 2940
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0152SDMW7GS-PL		kW: 15	
NOM. EFF.: 91.9	MIN. EFF.: -	cosØ 0.83	

AMPERAGE

LOCKED ROTOR: 223

TORQUES

FULL LOAD (lb-ft.): 36
LOCKED ROTOR (%): 300
BREAK DOWN (%): 400

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.3
3/4 LOAD: 91.6
1/2 LOAD: 89.3

POWER FACTOR

FULL LOAD: 83.4
3/4 LOAD: 78.3
1/2 LOAD: 67.9

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: 8/5/2020

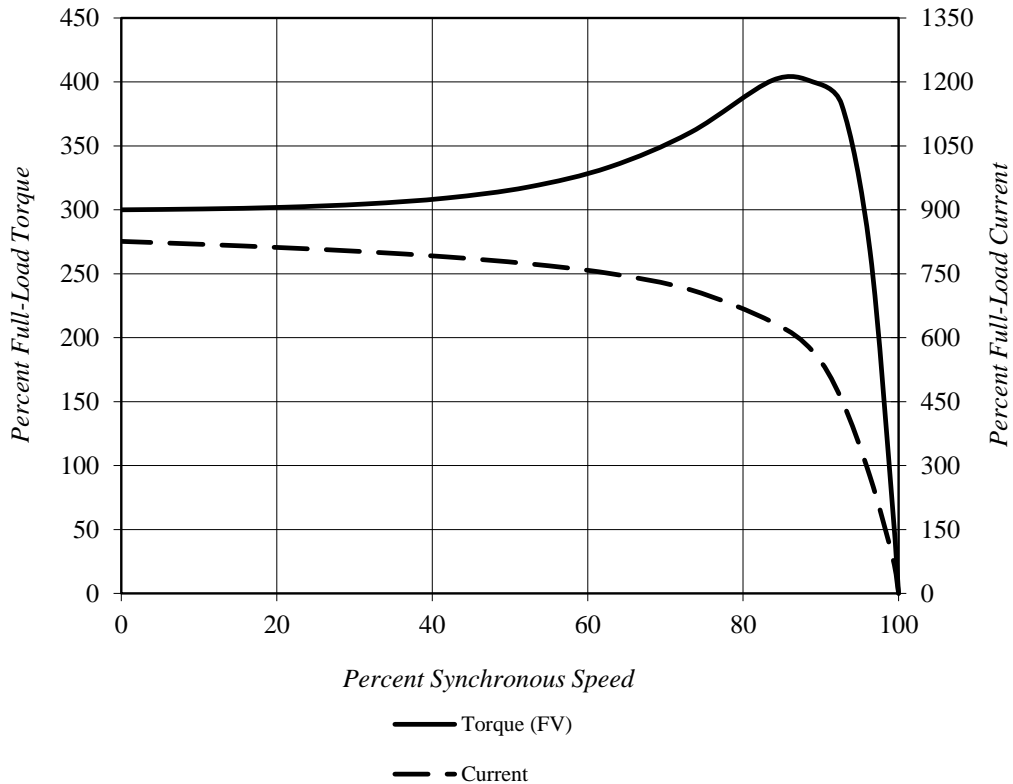
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7GS-PL			FLAmps:	27
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2015 (15kW)

Locked Rotor Amps:	223 A	Load Type:	N/A
Locked Rotor Torque:	300%	Starting at:	N/A
Breakdown Torque:	400%	Accel. Time:	N/A
Rated Torque:	36 lb-ft		

Design Values



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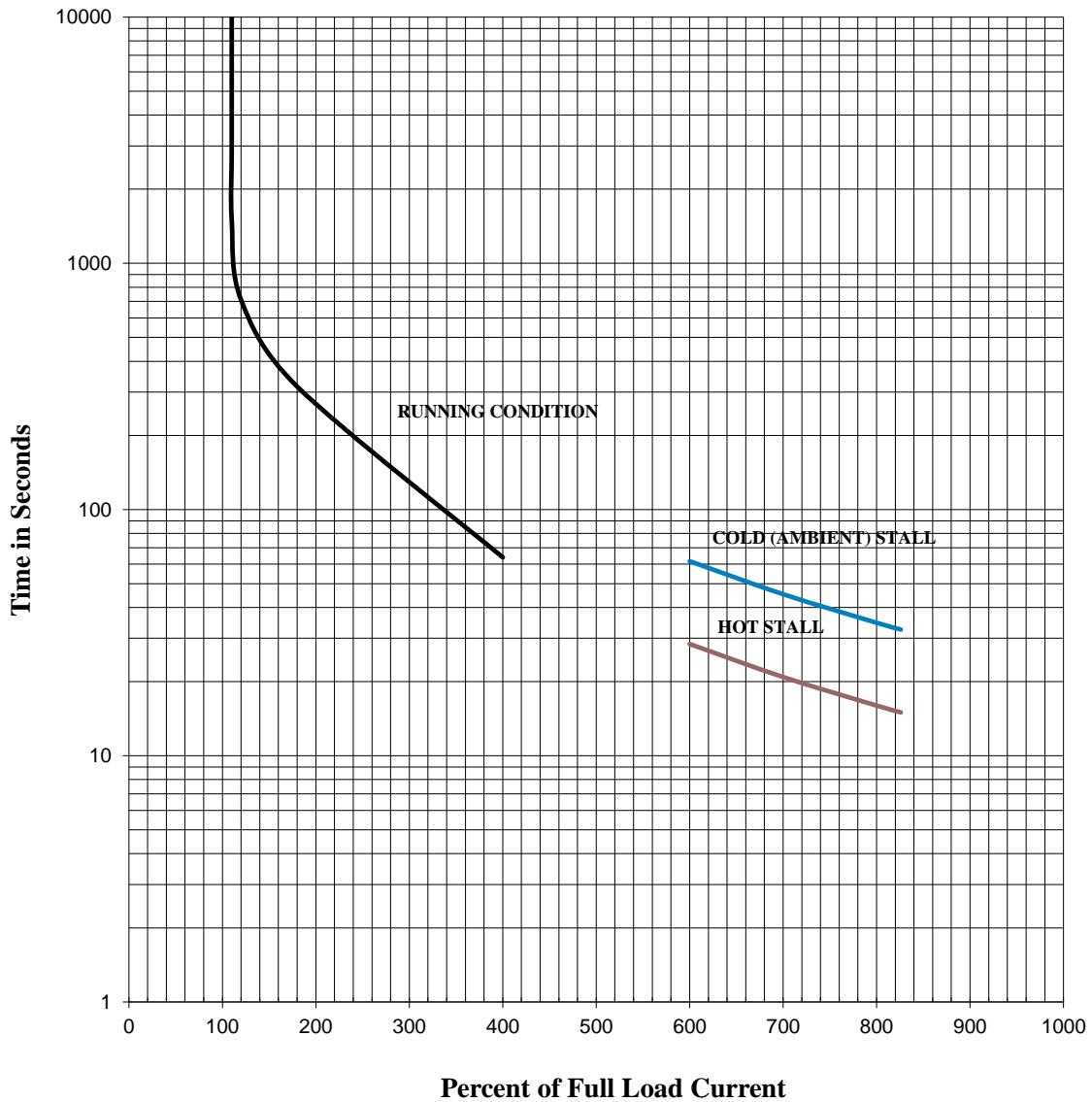
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7GS-PL			FLAmps:	27
Enclosure:	TEFC	Voltage:	415 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2015 (15kW)



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CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160M	ENCL: TEFC	FLAMPS: 28	FLRPM: 2930
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0152SDMW7GS-PL		kW: 15	
NOM. EFF.: 91.9	MIN. EFF.: -	cosØ 0.87	

AMPERAGE

LOCKED ROTOR: 202

TORQUES

FULL LOAD (lb-ft.): 36
LOCKED ROTOR (%): 245
BREAK DOWN (%): 340

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.6
3/4 LOAD: 91.2
1/2 LOAD: 89.4

POWER FACTOR

FULL LOAD: 87.9
3/4 LOAD: 85.2
1/2 LOAD: 78.1

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).

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DATE: 8/5/2020

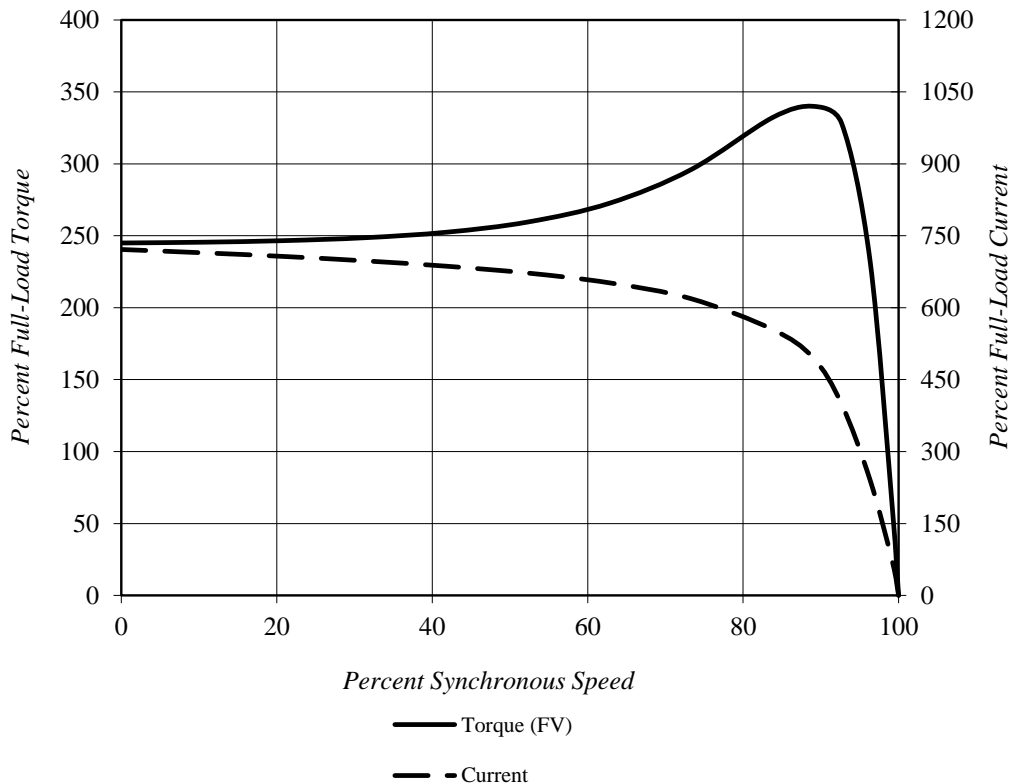
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7GS-PL			FLAmps:	28
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2015 (15kW)

Locked Rotor Amps:	202 A	Load Type:	N/A
Locked Rotor Torque:	245%	Starting at:	N/A
Breakdown Torque:	340%	Accel. Time:	N/A
Rated Torque:	36 lb-ft		

Design Values



Comments: PROJECT -

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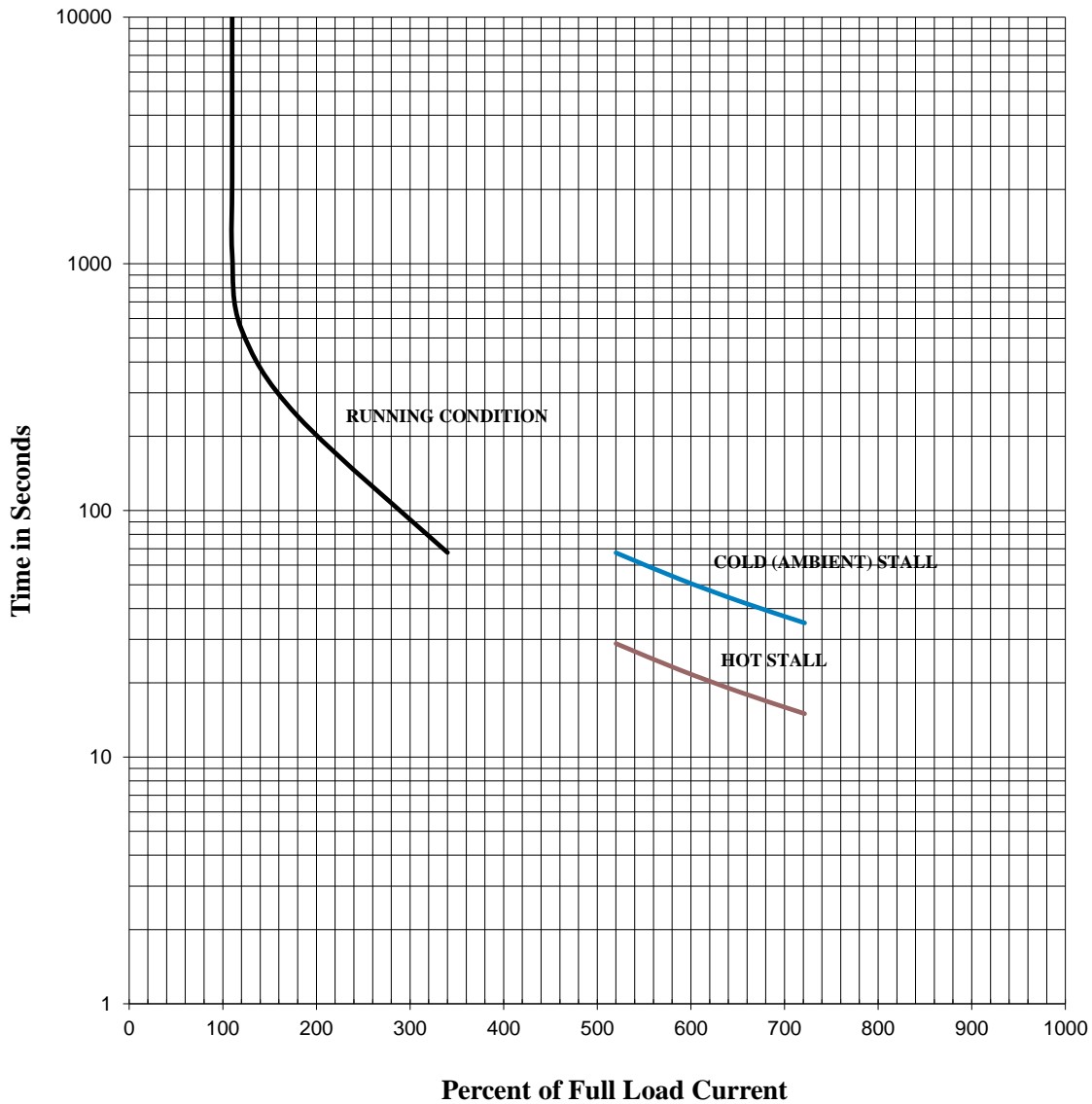
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7GS-PL			FLAmps:	28
Enclosure:	TEFC	Voltage:	380 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	15	Rotor Inertia:	1.5 lb-ft ²	Date:	8/5/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2015 (15kW)



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TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 20	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 160M	ENCL: TEFC	FLAMPS: 25	FLRPM: 3555
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: K	DUTY: Cont.
MODEL No.: 0152SDMW7GS-PL		kW: 15	
NOM. EFF.: 91.0	MIN. EFF.: -	P.F.: 84.0	

AMPERAGE

LOCKED ROTOR: 207

TORQUES

FULL LOAD (lb-ft.): 30
LOCKED ROTOR (%): 310
BREAK DOWN (%): 420

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.0
3/4 LOAD: 90.1
1/2 LOAD: 87.6

POWER FACTOR

FULL LOAD: 84.2
3/4 LOAD: 80.1
1/2 LOAD: 71.1

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%.

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CERTIFIED BY: Zichao Xie

DATE: 1/8/2020

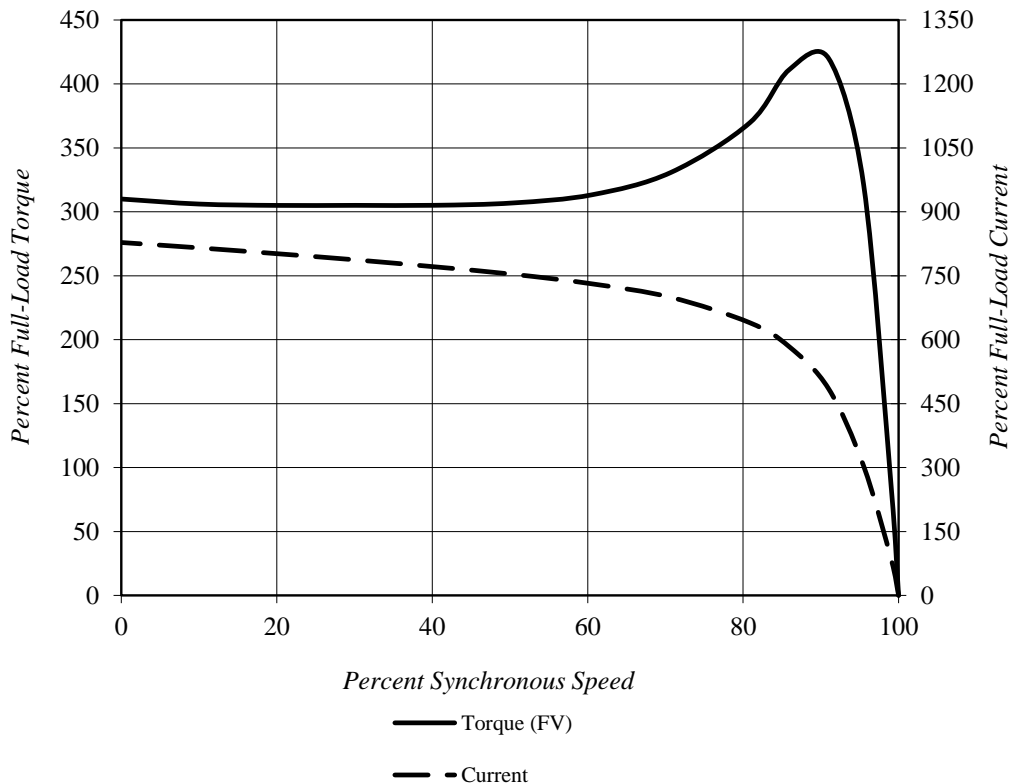
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7GS-PL			FLAmps:	25
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	20	Rotor Inertia:	1.5 lb-ft ²	Date:	1/8/2020
FLRPM:	3555	Load Inertia:	N/A	File:	GH2015 (15kW)

Locked Rotor Amps:	207 A	Load Type:	N/A
Locked Rotor Torque:	310%	Starting at:	N/A
Breakdown Torque:	420%	Accel. Time:	N/A
Rated Torque:	30 lb-ft		

Design Values



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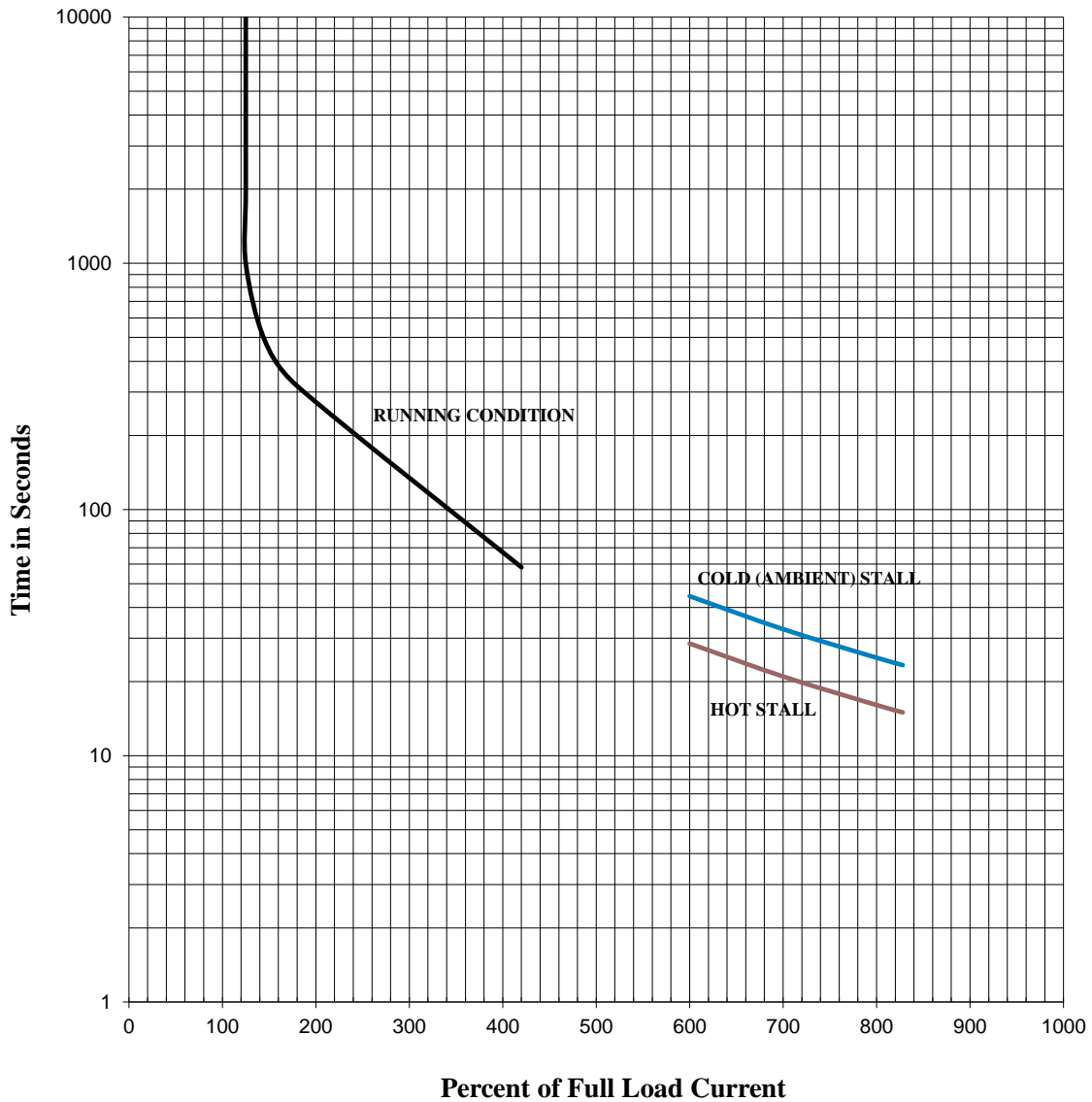
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Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7GS-PL			FLAmps:	25
Enclosure:	TEFC	Voltage:	460 V	Frame:	160M
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	20	Rotor Inertia:	1.5 lb-ft ²	Date:	1/8/2020
FLRPM:	3555	Load Inertia:	N/A	File:	GH2015 (15kW)



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