

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.

B14-FLANGE MOTOR OL DRAWING IEC GLOBAL		TYPE: 2-4-6P 400V	TOLERANCES							
3HFN000320		FRAME: 160L	X. ± 2.0							
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		MAXIMUM MOTOR WEIGHT								DRAWN BY: HIEN, NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/find
		- lbs. - kgs.		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: 3000
FRAME: 160L	ENCL: TEFC	FLAMPS: 33	FLRPM: 2940
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0182SDMW7KS-PL		kW: 18.5	
NOM. EFF.: 92.4	MIN. EFF.: -	cosØ 0.87	

AMPERAGE

LOCKED ROTOR: 273

TORQUES

FULL LOAD (lb-ft.): 44
LOCKED ROTOR (%): 305
BREAK DOWN (%): 410

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.5
3/4 LOAD: 92.1
1/2 LOAD: 90.3

POWER FACTOR

FULL LOAD: 87.0
3/4 LOAD: 83.1
1/2 LOAD: 74.1

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: 1/8/2020

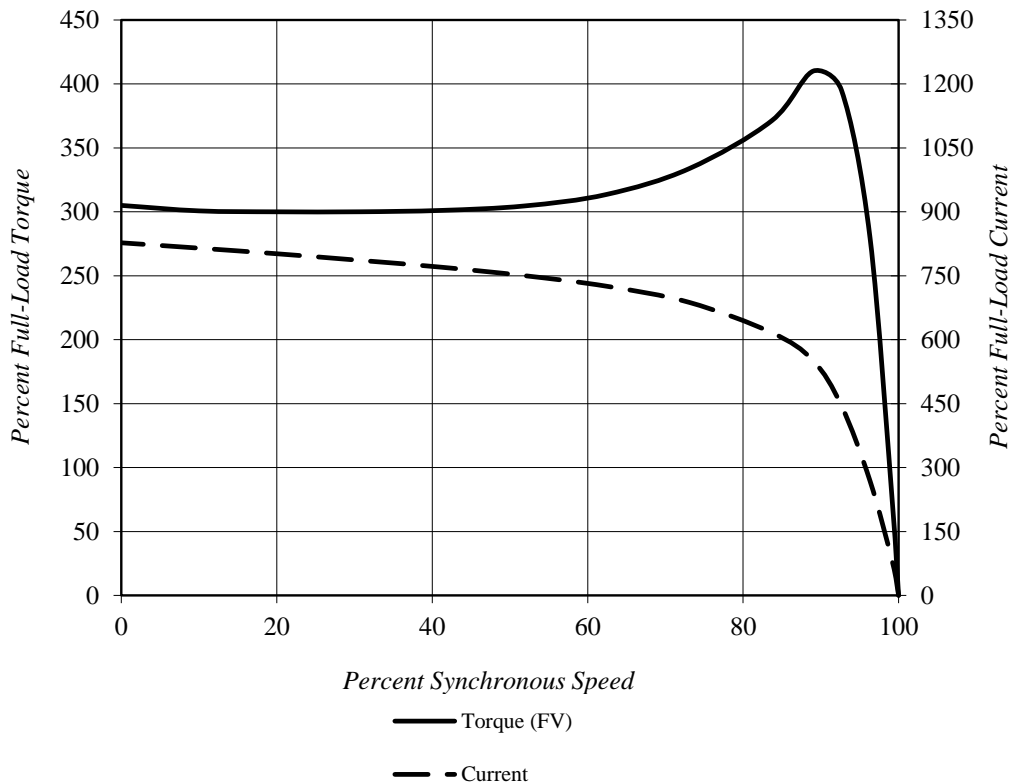
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0182SDMW7KS-PL			FLAmps:	33
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2018 (18.5kW)

Locked Rotor Amps:	273 A	Load Type:	N/A
Locked Rotor Torque:	305%	Starting at:	N/A
Breakdown Torque:	410%	Accel. Time:	N/A
Rated Torque:	44 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

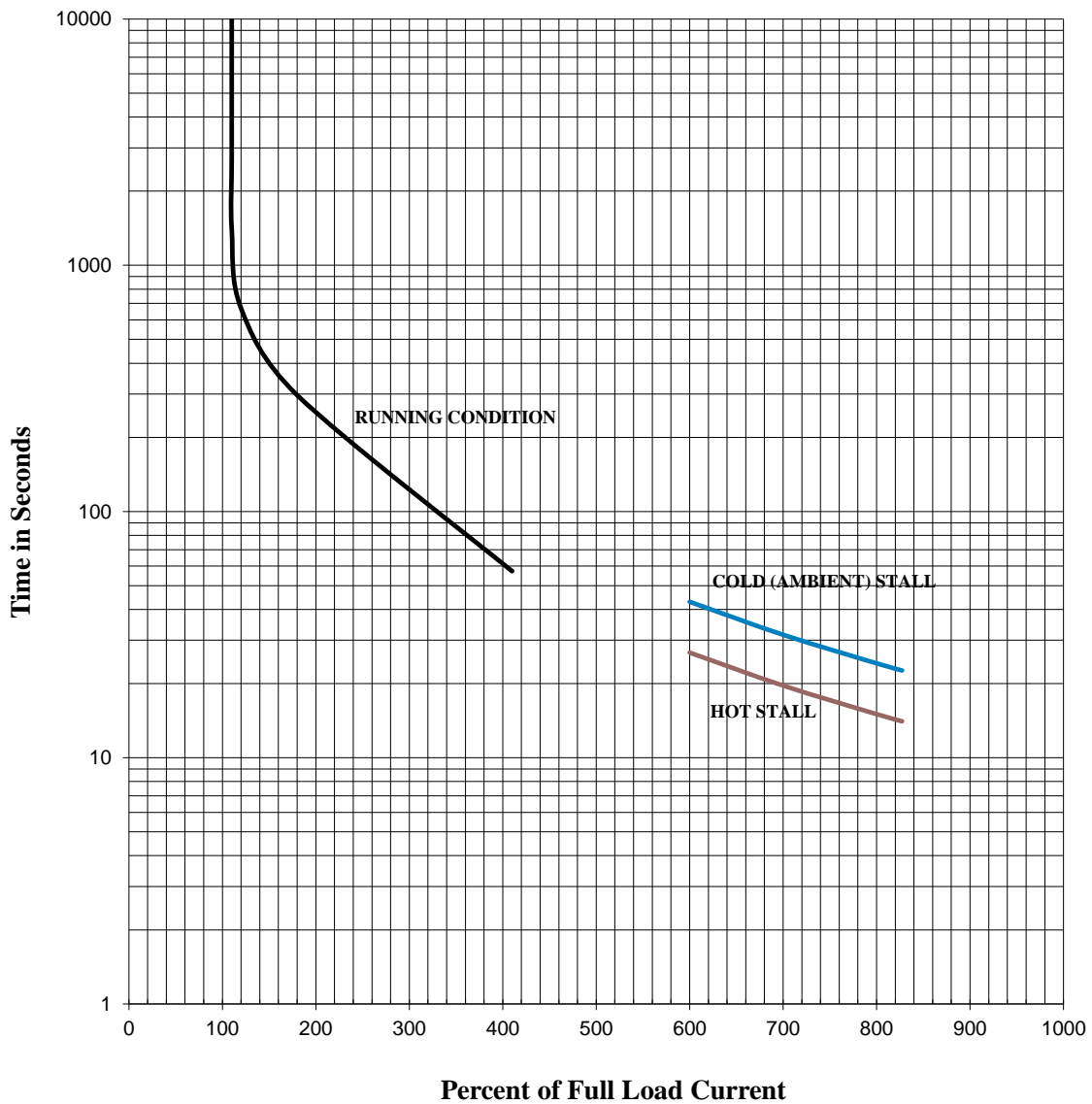
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0182SDMW7KS-PL			FLAmps:	33
Enclosure:	TEFC	Voltage:	400 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2018 (18.5kW)



Comments: PROJECT _____

D.E. Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

Checked by: _____

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

SQUIRREL CAGE INDUCTION MOTOR
PERFORMANCE SPECIFICATIONS

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APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160L	ENCL: TEFC	FLAMPS: 33	FLRPM: 2940
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0182SDMW7KS-PL		kW: 18.5	
NOM. EFF.: 92.4	MIN. EFF.: -	cosØ 0.84	

AMPERAGE

LOCKED ROTOR: 285

TORQUES

FULL LOAD (lb-ft.): 44
LOCKED ROTOR (%): 330
BREAK DOWN (%): 430

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.5
3/4 LOAD: 91.9
1/2 LOAD: 90.0

POWER FACTOR

FULL LOAD: 84.6
3/4 LOAD: 79.7
1/2 LOAD: 69.4

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: 1/8/2020

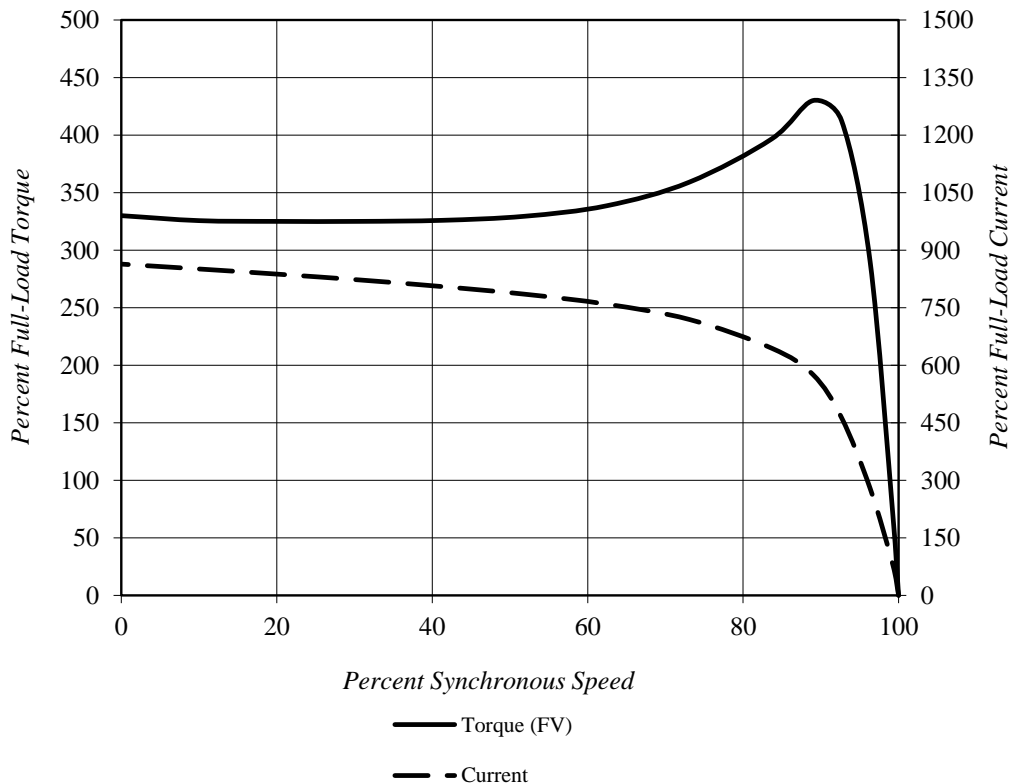
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0182SDMW7KS-PL			FLAmps:	33
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2018 (18.5kW)

Locked Rotor Amps:	285 A	Load Type:	N/A
Locked Rotor Torque:	330%	Starting at:	N/A
Breakdown Torque:	430%	Accel. Time:	N/A
Rated Torque:	44 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

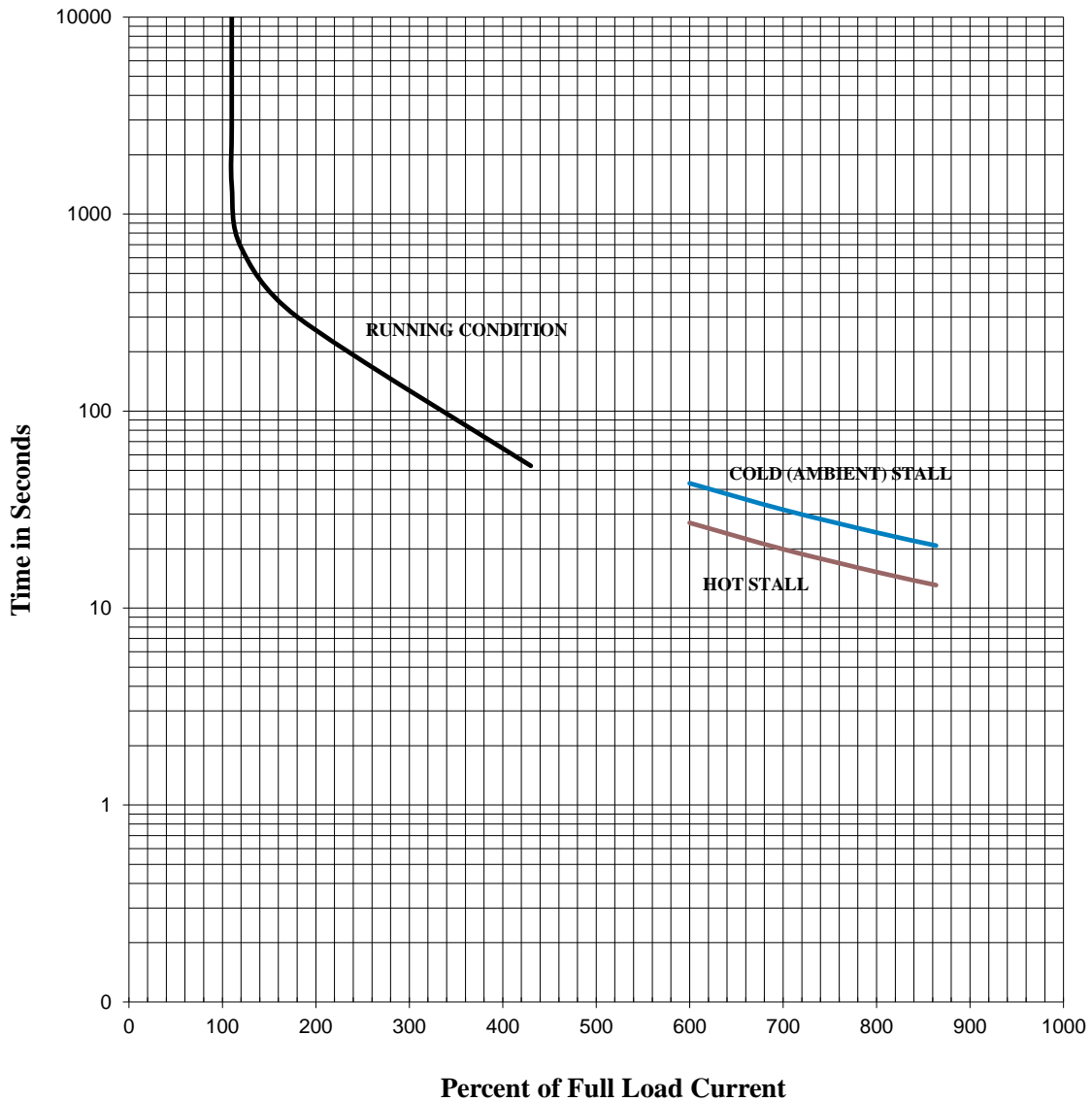
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0182SDMW7KS-PL			FLAmps:	33
Enclosure:	TEFC	Voltage:	415 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2940	Load Inertia:	N/A	File:	GH2018 (18.5kW)



Comments: PROJECT -

D.E.Curve #: GH2018 (18.5kW)

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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	SUPERSEDES	11/8/96
	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 160L	ENCL: TEFC	FLAMPS: 34	FLRPM: 2930
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0182SDMW7KS-PL		kW: 18.5	
NOM. EFF.: 92.4	MIN. EFF.: -	cosØ 0.88	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 258	FULL LOAD (lb-ft.): 44	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 270	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 370	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.8	FULL LOAD: 88.9
3/4 LOAD: 91.5	3/4 LOAD: 86.3
1/2 LOAD: 89.9	1/2 LOAD: 79.4

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: 1/8/2020

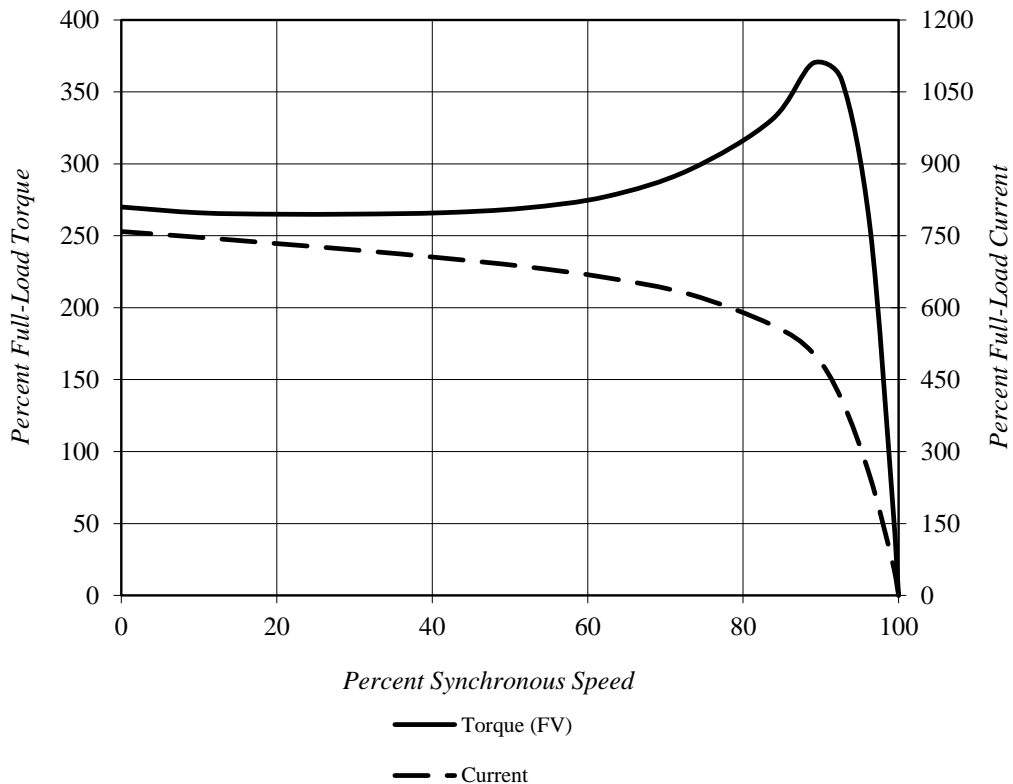
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0182SDMW7KS-PL			FLAmps:	34
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2018 (18.5kW)

Locked Rotor Amps:	258 A	Load Type:	N/A
Locked Rotor Torque:	270%	Starting at:	N/A
Breakdown Torque:	370%	Accel. Time:	N/A
Rated Torque:	44 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

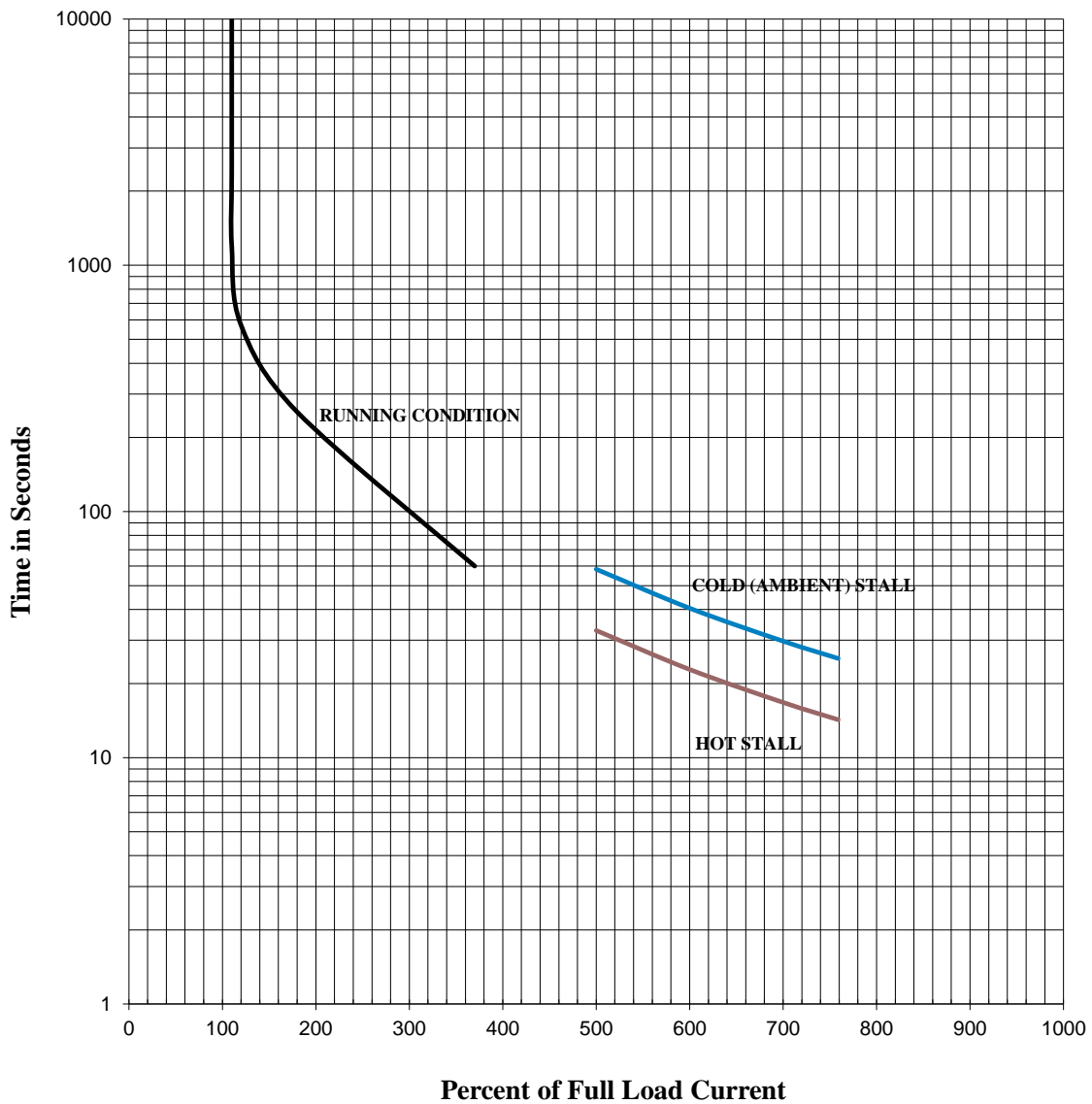
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0182SDMW7KS-PL			FLAmps:	34
Enclosure:	TEFC	Voltage:	380 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	2930	Load Inertia:	N/A	File:	GH2018 (18.5kW)



Comments: PROJECT _____

D.E. Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

Checked by: _____

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

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PERFORMANCE SPECIFICATIONS

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REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.: 25	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 160L	ENCL: TEFC	FLAMPS: 29	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.: 0182SDMW7KS-PL		kW: 18.5	
NOM. EFF.: 91.7	MIN. EFF.: -	P.F.: 85.0	

AMPERAGE

LOCKED ROTOR: 269

TORQUES

FULL LOAD (lb-ft.): 37
LOCKED ROTOR (%): 335
BREAK DOWN (%): 435

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.6
3/4 LOAD: 91.8
1/2 LOAD: 89.6

POWER FACTOR

FULL LOAD: 85.0
3/4 LOAD: 81.1
1/2 LOAD: 72.2

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
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** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

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DATE: 1/8/2020

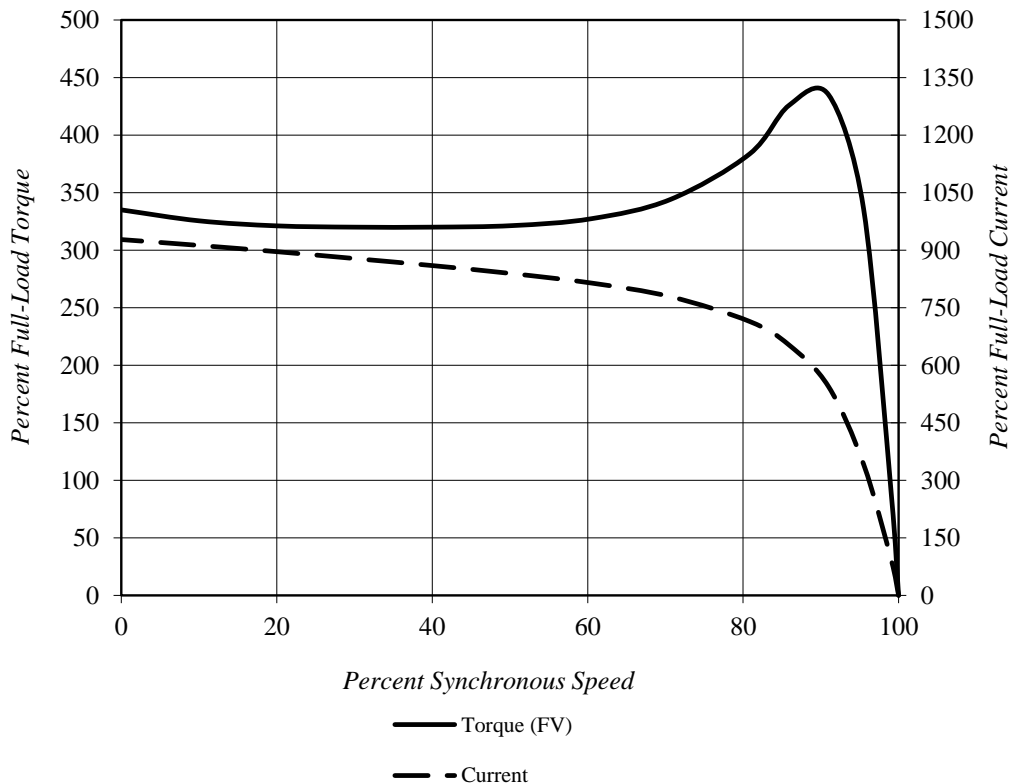
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0182SDMW7KS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	3555	Load Inertia:	N/A	File:	3H2018 (18.5kW)

Locked Rotor Amps:	269 A	Load Type:	N/A
Locked Rotor Torque:	335%	Starting at:	N/A
Breakdown Torque:	435%	Accel. Time:	N/A
Rated Torque:	37 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: 3H2018 (18.5kW)

Prepared by: Zichao Xie

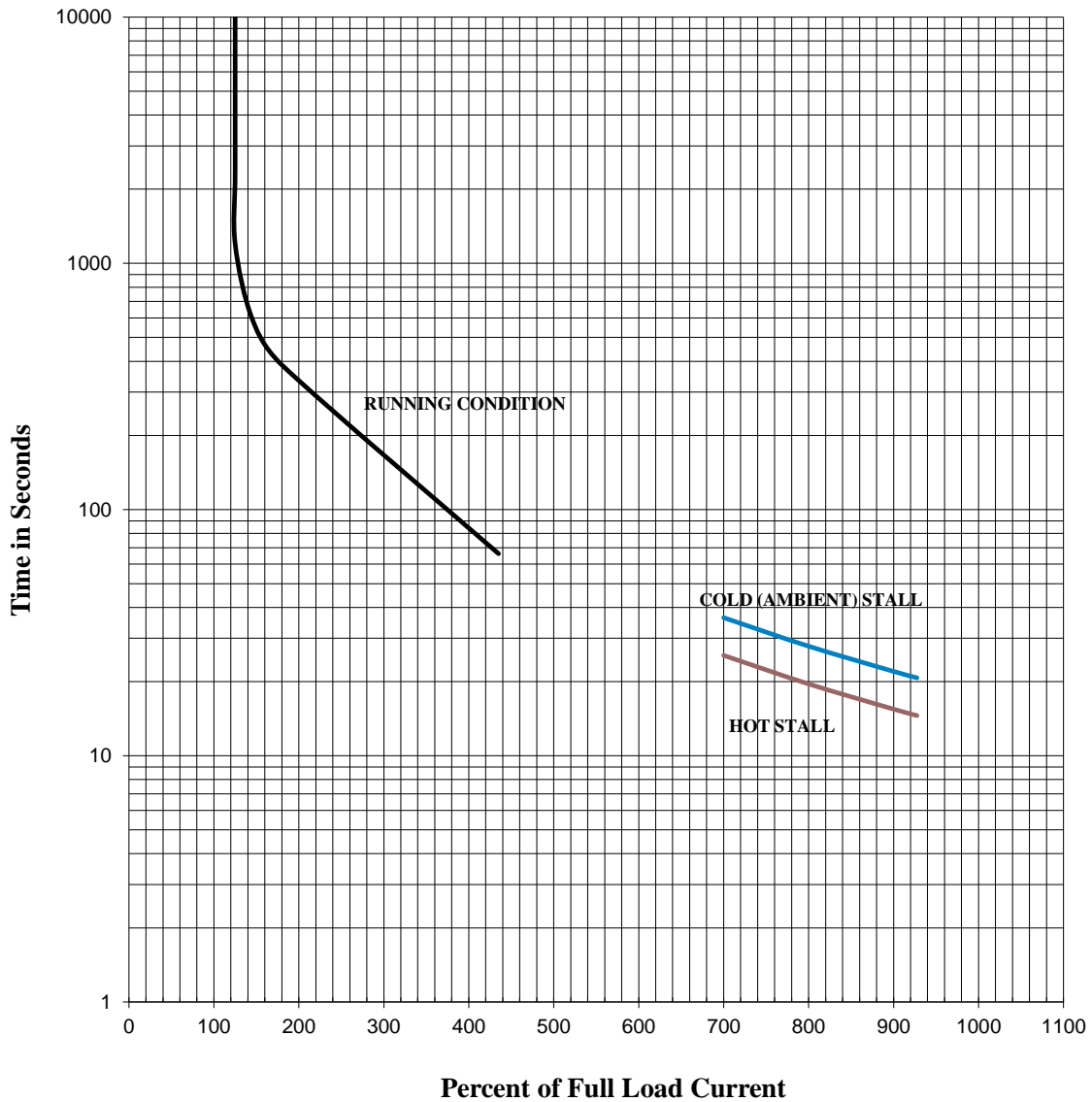
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0182SDMW7KS-PL			FLAmps:	29
Enclosure:	TEFC	Voltage:	460 V	Frame:	160L
Pole:	2	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	1.8 lb-ft ²	Date:	1/8/2020
FLRPM:	3555	Load Inertia:	N/A	File:	GH2018 (18.5kW)



Comments: PROJECT _____

D.E.Curve #: GH2018 (18.5kW)

Prepared by: Zichao Xie

Checked by: _____