

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
 FRAME: 180M

3HFN000169

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

X. ± 2.0
 X.X ± 0.5
 X.XX ± 0.1

MAXIMUM
 MOTOR WEIGHT

- lbs.
 - kgs.

NO	REVISION	DRAWN BY	DATE	CHECK
03	change to M20S-EB	T.Danh	May-07-18	Q.Hung
02	MODIFY DIMENSIONS	T.PHUNG	Apr-05-18	Q.Hung
01	change to fancover	T.Danh	Feb-08-18	Q.Hung

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: 400	3 PH / 50 Hz	S. RPM: 1500
FRAME: 180M	ENCL: TEFC	FLAMPS: 36	FLRPM: 1475
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0184SDMW7FS-P		kW: 18.5	
NOM. EFF.: 92.6	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 341	FULL LOAD (lb-ft.): 88	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 290	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 380	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.4	FULL LOAD: 80.1
3/4 LOAD: 92.8	3/4 LOAD: 74.1
1/2 LOAD: 90.9	1/2 LOAD: 62.4

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

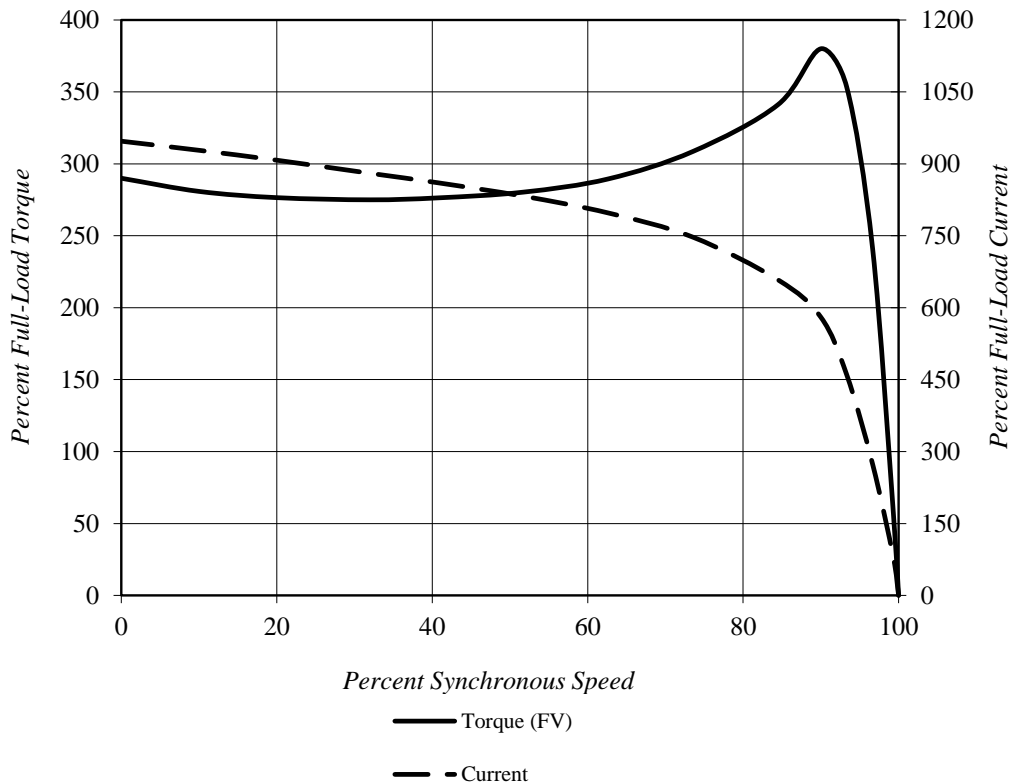
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0184SDMW7FS-P			FLAmps:	36
Enclosure:	TEFC	Voltage:	400 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	3H4018 (18.5kW)

Locked Rotor Amps:	341 A	Load Type:	N/A
Locked Rotor Torque:	290%	Starting at:	N/A
Breakdown Torque:	380%	Accel. Time:	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: 3H4018 (18.5kW)

Prepared by: Zichao Xie

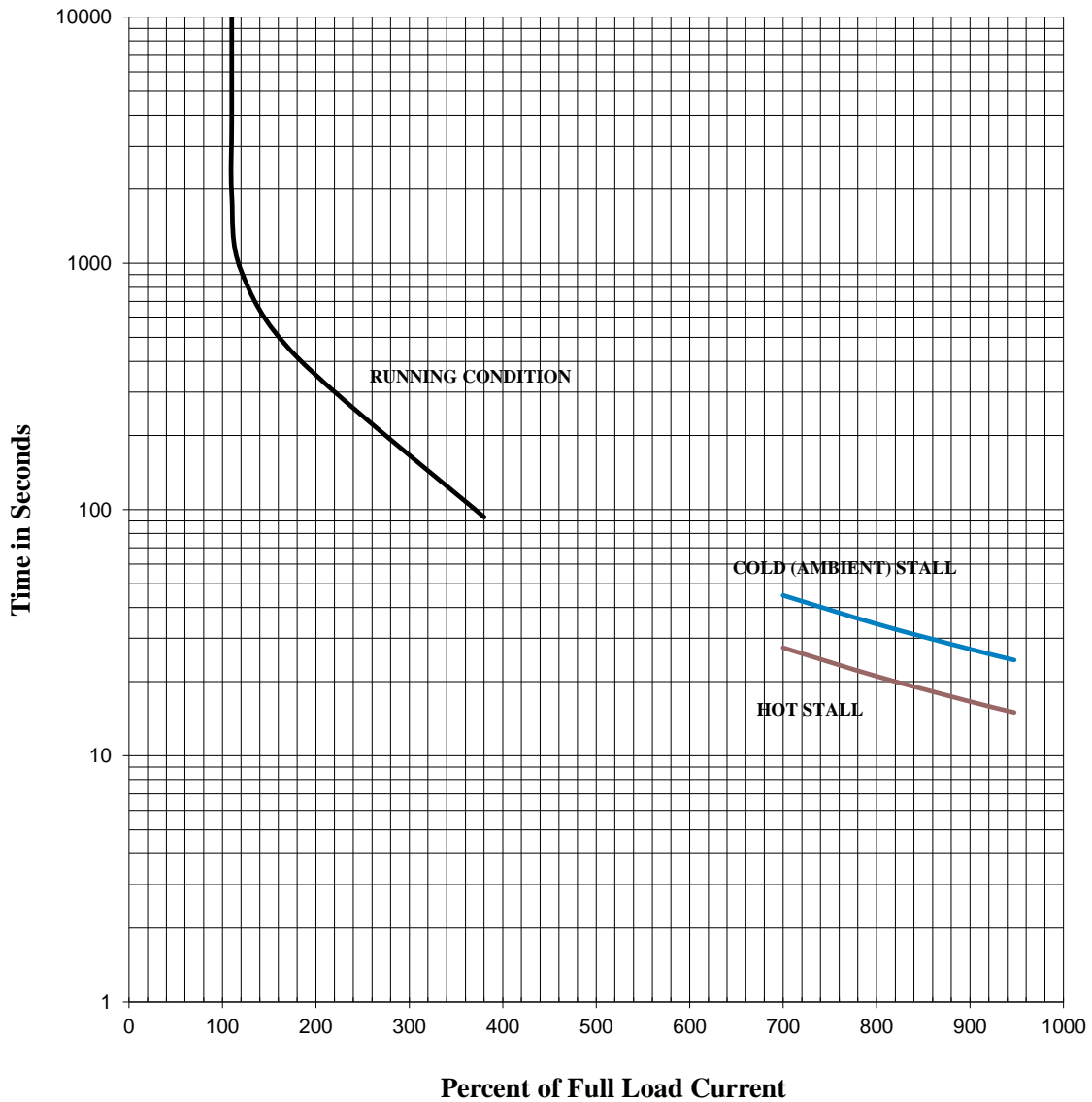
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0184SDMW7FS-P			FLAmps:	36
Enclosure:	TEFC	Voltage:	400 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	GH4018 (18.5kW)



Comments: PROJECT -

D.E. Curve #: GH4018 (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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	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 180M	ENCL: TEFC	FLAMPS: 35	FLRPM: 1475
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0184SDMW7FS-P		kW: 18.5	
NOM. EFF.: 92.6	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 356	FULL LOAD (lb-ft.): 88	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 320	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 405	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.5	FULL LOAD: 77.9
3/4 LOAD: 92.8	3/4 LOAD: 71.1
1/2 LOAD: 90.7	1/2 LOAD: 58.6

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).

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DATE: 10/18/2019

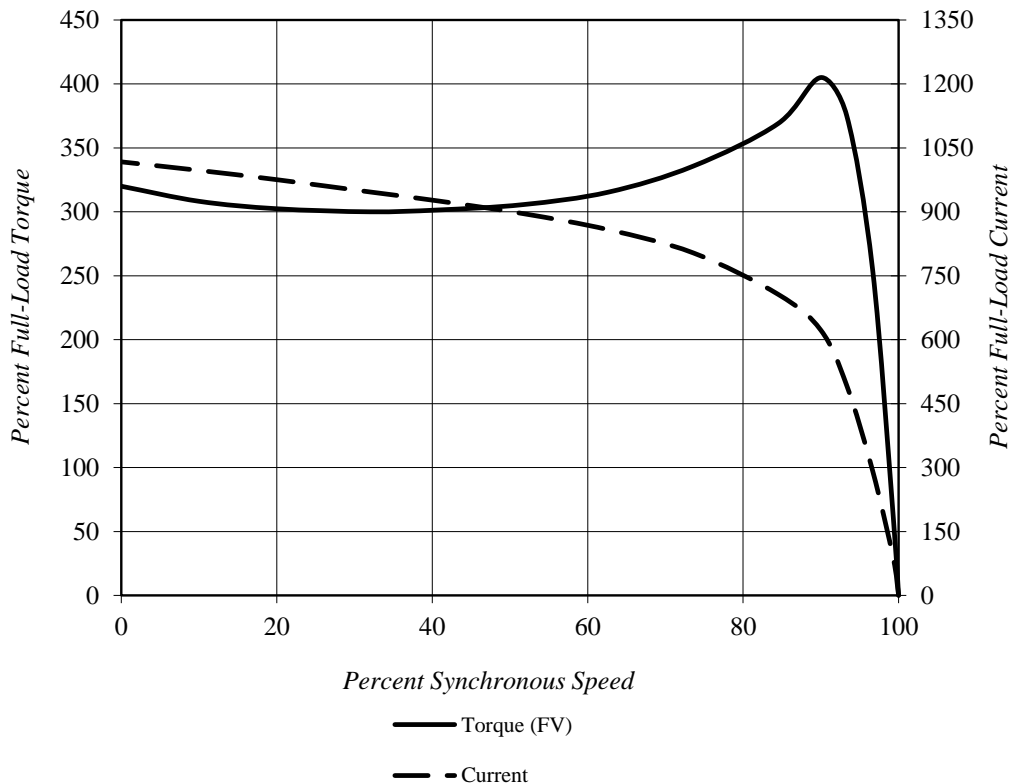
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0184SDMW7FS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	415 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	GH4018 (18.5kW)

Locked Rotor Amps:	356 A	Load Type:	N/A
Locked Rotor Torque:	320%	Starting at:	N/A
Breakdown Torque:	405%	Accel. Time:	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: GH4018 (18.5kW)

Prepared by: Zichao Xie

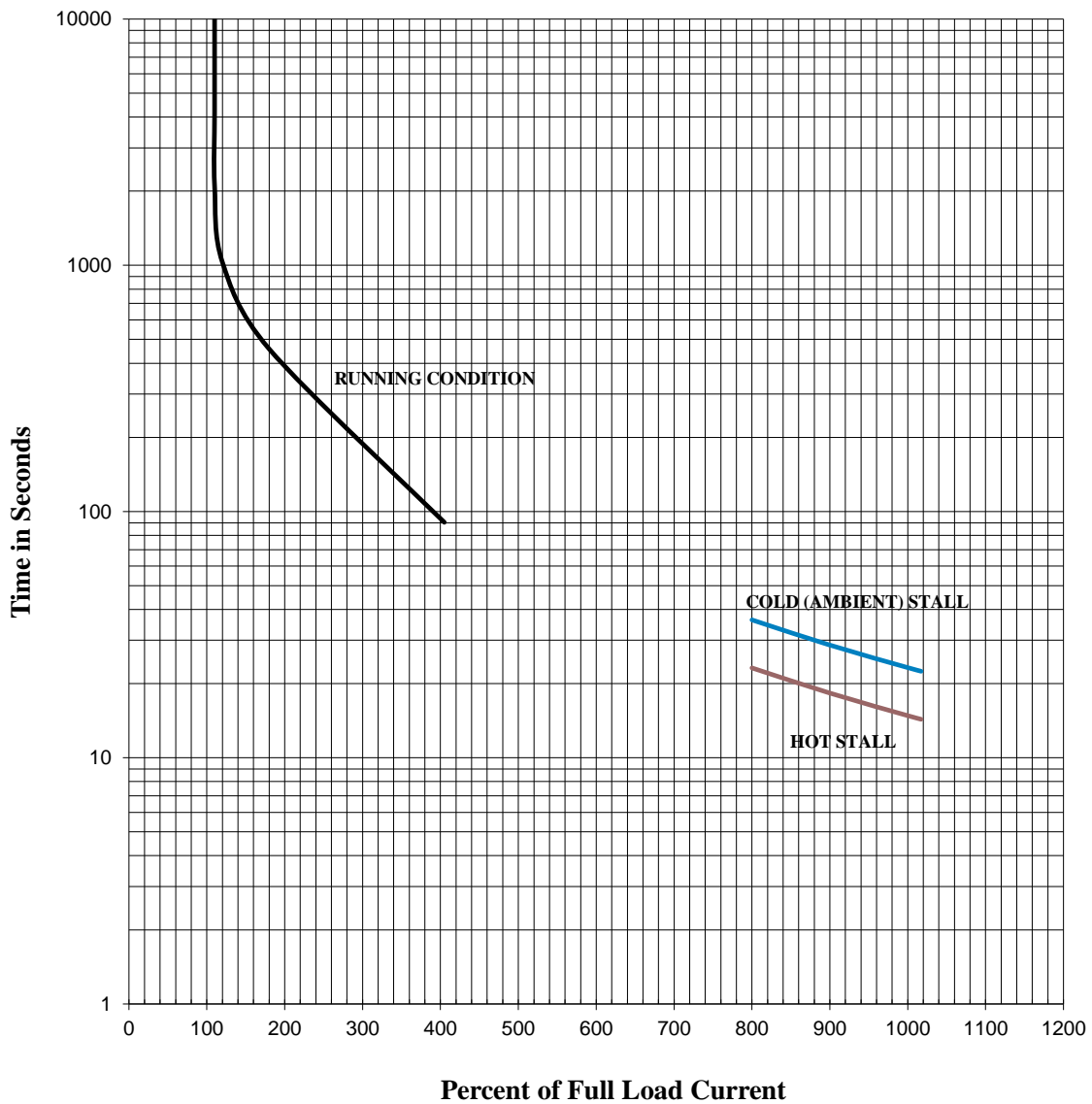
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0184SDMW7FS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	415 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	3H4018 (18.5kW)



Comments: PROJECT -

D.E. Curve #: 3H4018 (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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	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: 1500
FRAME: 180M	ENCL: TEFC	FLAMPS: 37	FLRPM: 1475
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0184SDMW7FS-P		kW: 18.5	
NOM. EFF.: 92.6	MIN. EFF.: -	cosØ 0.82	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 321	FULL LOAD (lb-ft.): 88	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 260	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 345	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.1	FULL LOAD: 82.6
3/4 LOAD: 92.7	3/4 LOAD: 77.7
1/2 LOAD: 91.1	1/2 LOAD: 67.3

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

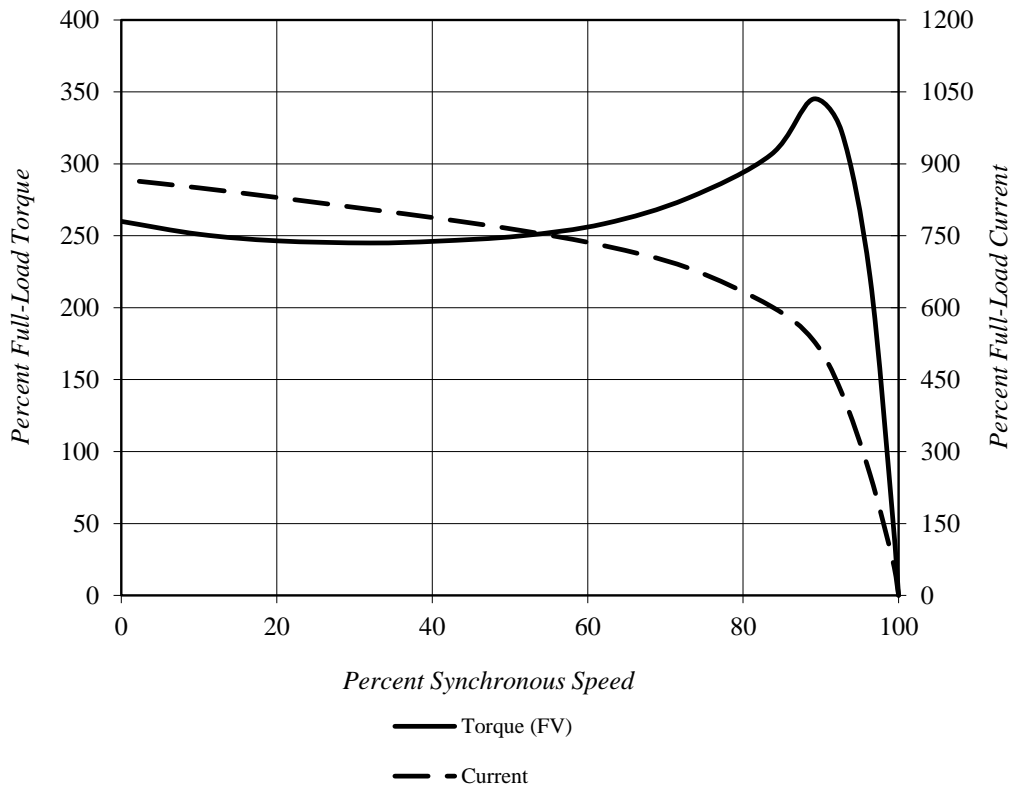
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0184SDMW7FS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	380 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	3H4018 (18.5kW)

Locked Rotor Amps:	321 A	Load Type:	N/A
Locked Rotor Torque:	260%	Starting at:	N/A
Breakdown Torque:	345%	Accel. Time:	N/A
Rated Torque:	88 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: 3H4018 (18.5kW)

Prepared by: Zichao Xie

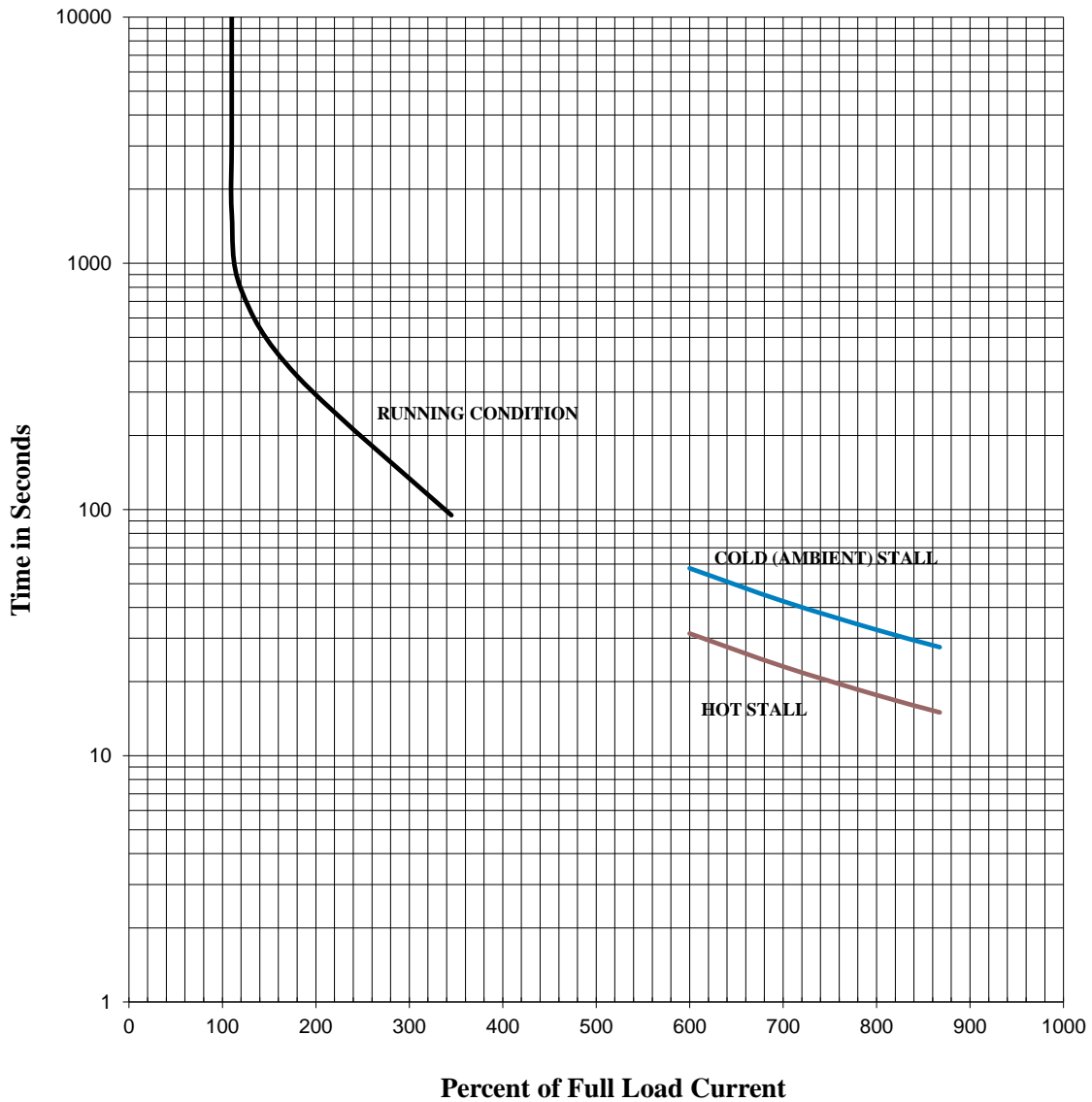
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0184SDMW7FS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	380 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1475	Load Inertia:	N/A	File:	GH4018 (18.5kW)



Comments: PROJECT -

D.E.Curve #: GH4018 (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
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.: 25	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 180M	ENCL: TEFC	FLAMPS: 31	FLRPM: 1775
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: 0184SDMW7FS-P		kW: 18.5	
NOM. EFF.: 93.6	MIN. EFF.: -	P.F.: 80.0	

AMPERAGE

LOCKED ROTOR: 333

TORQUES

FULL LOAD (lb-ft.): 73
LOCKED ROTOR (%): 300
BREAK DOWN (%): 420

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 93.9
3/4 LOAD: 93.0
1/2 LOAD: 90.7

POWER FACTOR

FULL LOAD: 80.1
3/4 LOAD: 73.5
1/2 LOAD: 61.3

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

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DATE: 10/18/2019

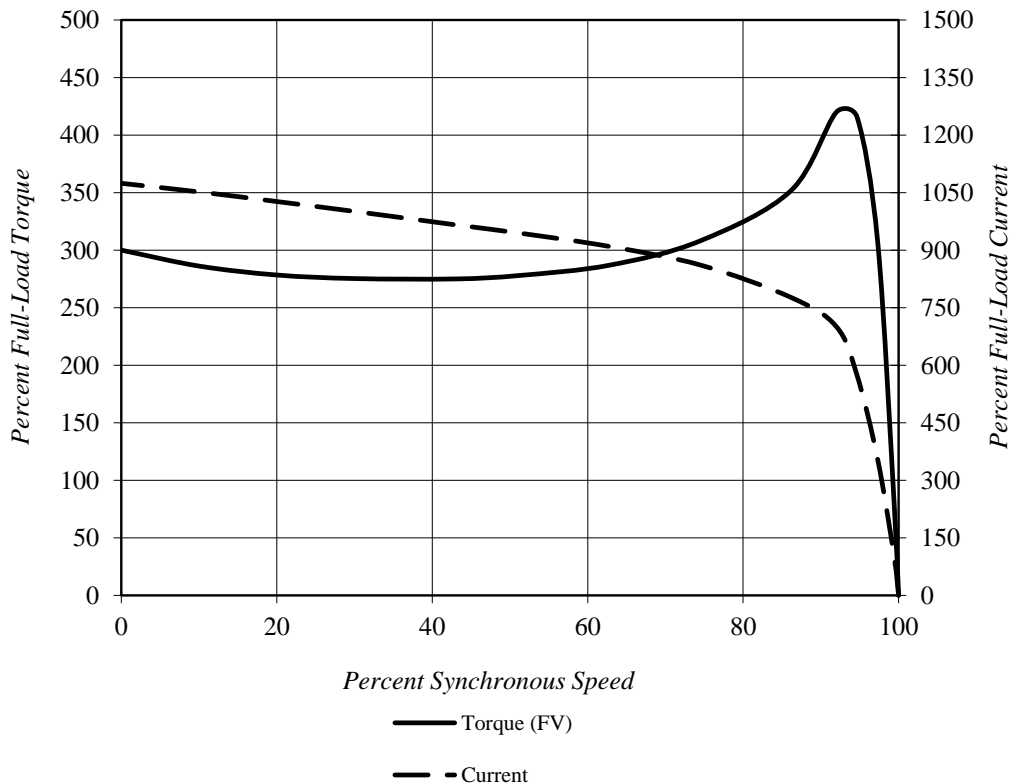
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0184SDMW7FS-P			FLAmps:	31
Enclosure:	TEFC	Voltage:	460 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	3H4018 (18.5kW)

Locked Rotor Amps:	333 A	Load Type:	N/A
Locked Rotor Torque:	300%	Starting at:	N/A
Breakdown Torque:	420%	Accel. Time:	N/A
Rated Torque:	73 lb-ft		

Design Values



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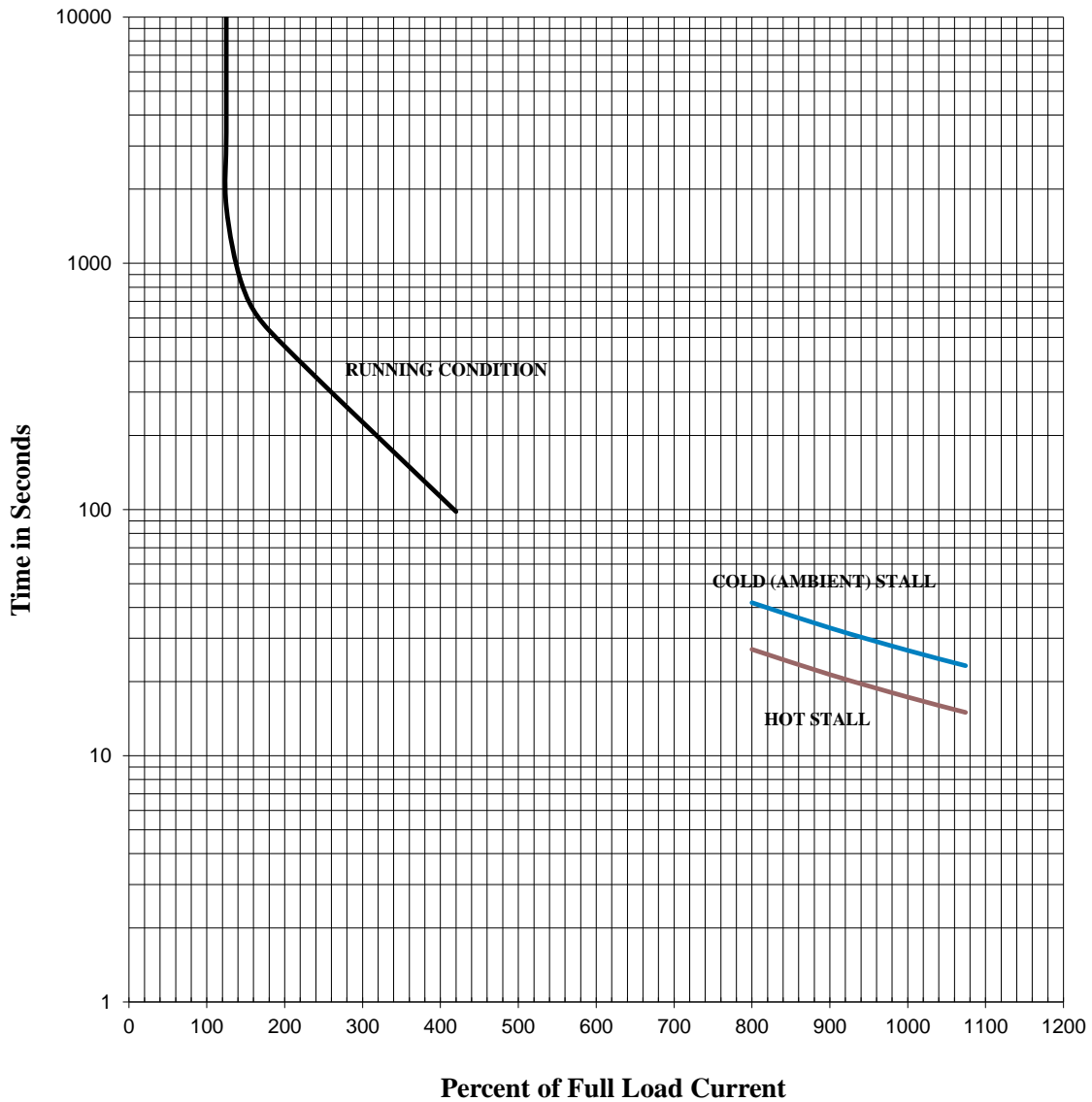
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0184SDMW7FS-P			FLAmps:	31
Enclosure:	TEFC	Voltage:	460 V	Frame:	180M
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	5.2 lb-ft ²	Date:	10/18/2019
FLRPM:	1775	Load Inertia:	N/A	File:	GH4018 (18.5kW)



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