

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: 200L	ENCL: TEFC	FLAMPS: 35	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0186SDMW7JS-P		kW: 18.5	
NOM. EFF.: 91.7	MIN. EFF.: -	cosØ 0.81	

AMPERAGE

LOCKED ROTOR: 220

TORQUES

FULL LOAD (lb-ft.): 133
LOCKED ROTOR (%): 260
BREAK DOWN (%): 310

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.4
3/4 LOAD: 92.5
1/2 LOAD: 91.5

POWER FACTOR

FULL LOAD: 81.5
3/4 LOAD: 77.4
1/2 LOAD: 68.1

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: 1/7/2021

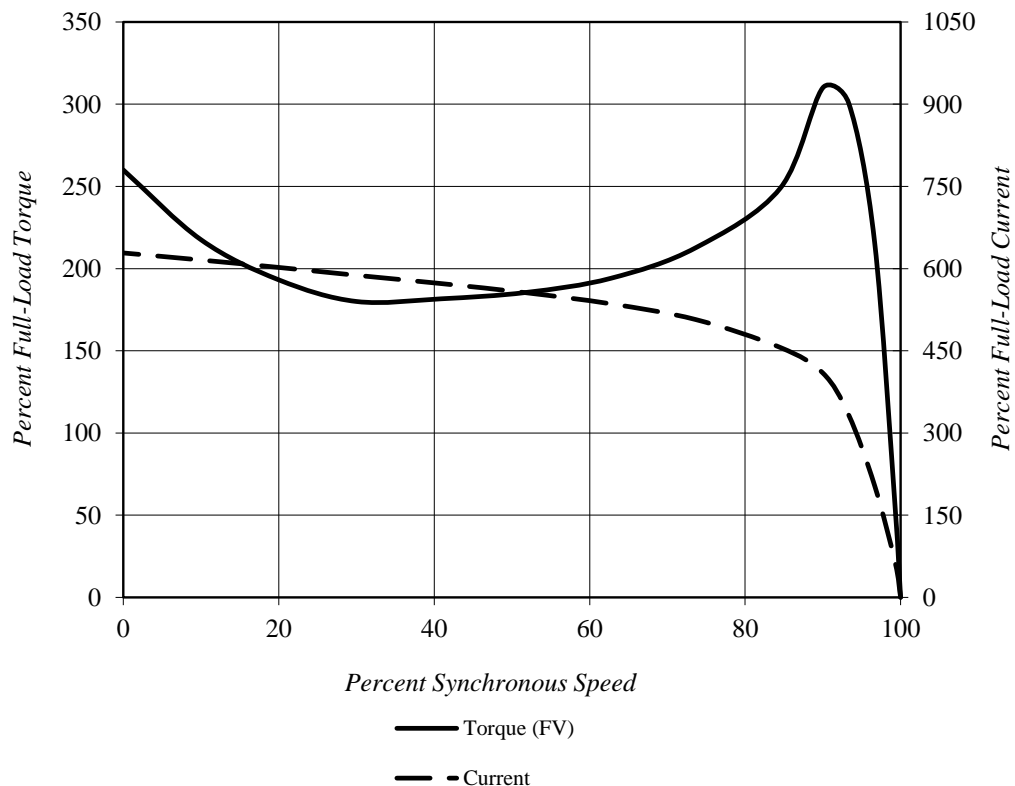
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0186SDMW7JS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	975	Load Inertia:	N/A	File:	3H6018 (18.5kW)

Locked Rotor Amps:	220 A	Load Type:	N/A
Locked Rotor Torque:	260%	Starting at:	N/A
Breakdown Torque:	310%	Accel. Time:	N/A
Rated Torque:	133 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: 3H6018 (18.5kW)

Prepared by: Zichao Xie

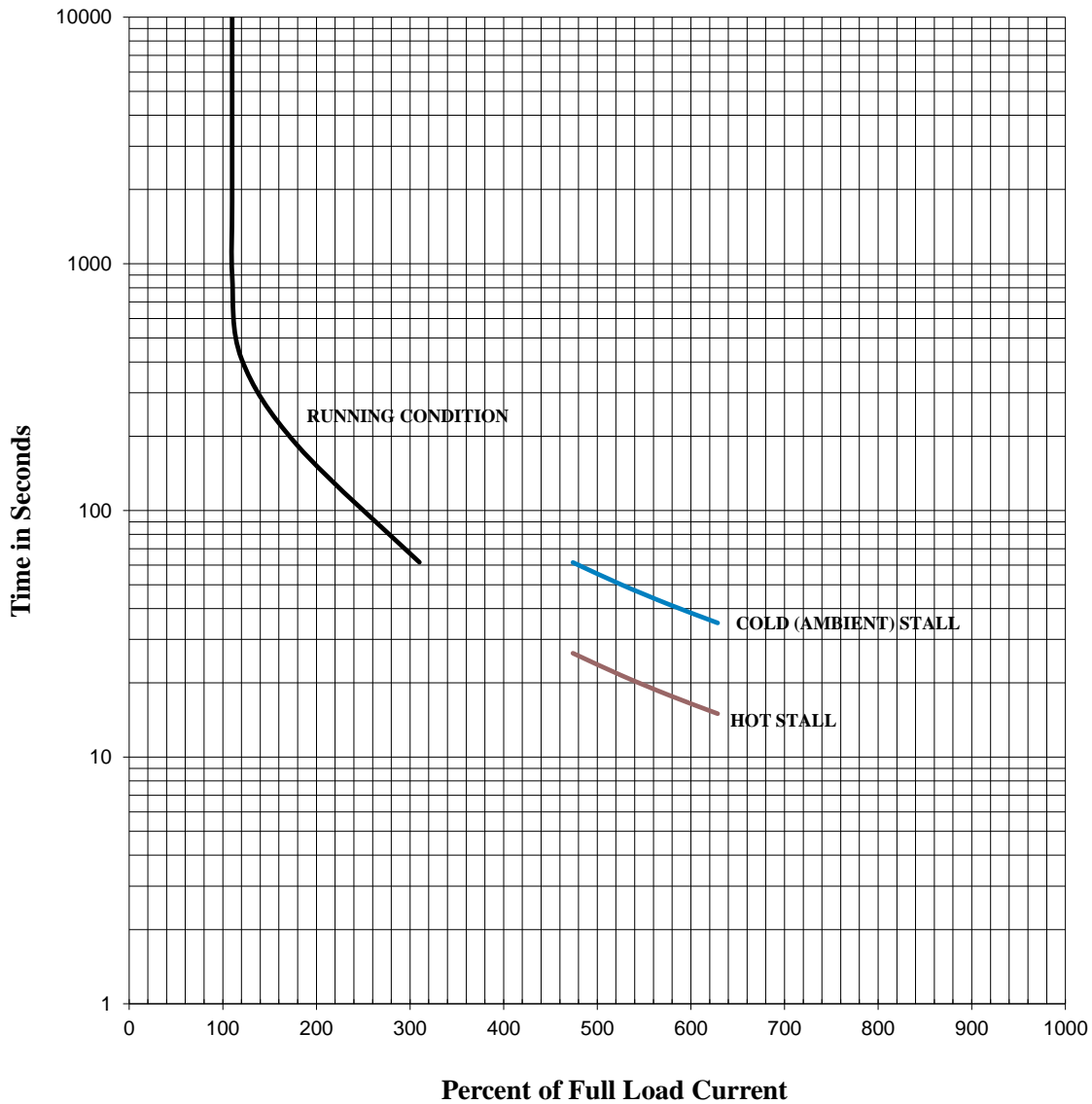
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0186SDMW7JS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	400 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	975	Load Inertia:	N/A	File:	3H6018 (18.5kW)



Comments: PROJECT -

D.E.Curve #: 3H6018 (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.: -	VOLTS: 415	3 PH / 50 Hz	S. RPM: 1000
FRAME: 200L	ENCL: TEFC	FLAMPS: 35	FLRPM: 980
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0186SDMW7JS-P		kW: 18.5	
NOM. EFF.: 91.7	MIN. EFF.: -	cosØ 0.80	

AMPERAGE

LOCKED ROTOR: 230

TORQUES

FULL LOAD (lb-ft.): 133
LOCKED ROTOR (%): 285
BREAK DOWN (%): 330

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 92.7
3/4 LOAD: 92.6
1/2 LOAD: 91.3

POWER FACTOR

FULL LOAD: 80.7
3/4 LOAD: 76.1
1/2 LOAD: 66.0

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: 1/7/2021

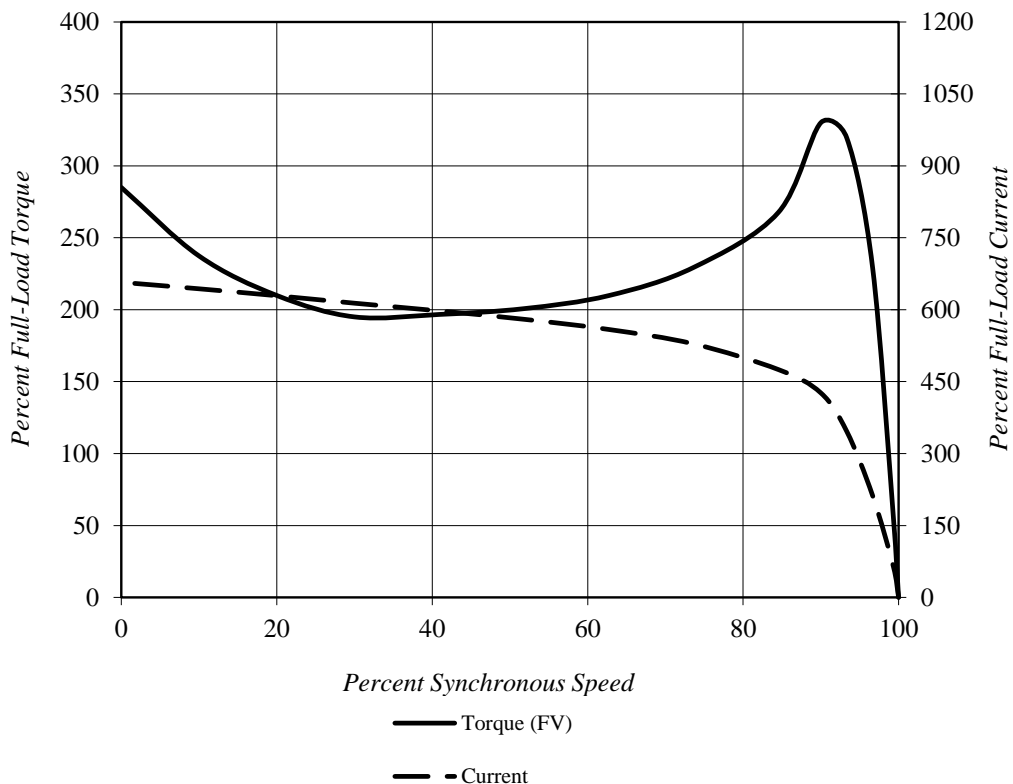
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0186SDMW7JS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	980	Load Inertia:	N/A	File:	3H6018 (18.5kW)

Locked Rotor Amps:	230 A	Load Type:	N/A
Locked Rotor Torque:	285%	Starting at:	N/A
Breakdown Torque:	330%	Accel. Time:	N/A
Rated Torque:	133 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: 3H6018 (18.5kW)

Prepared by: Zichao Xie

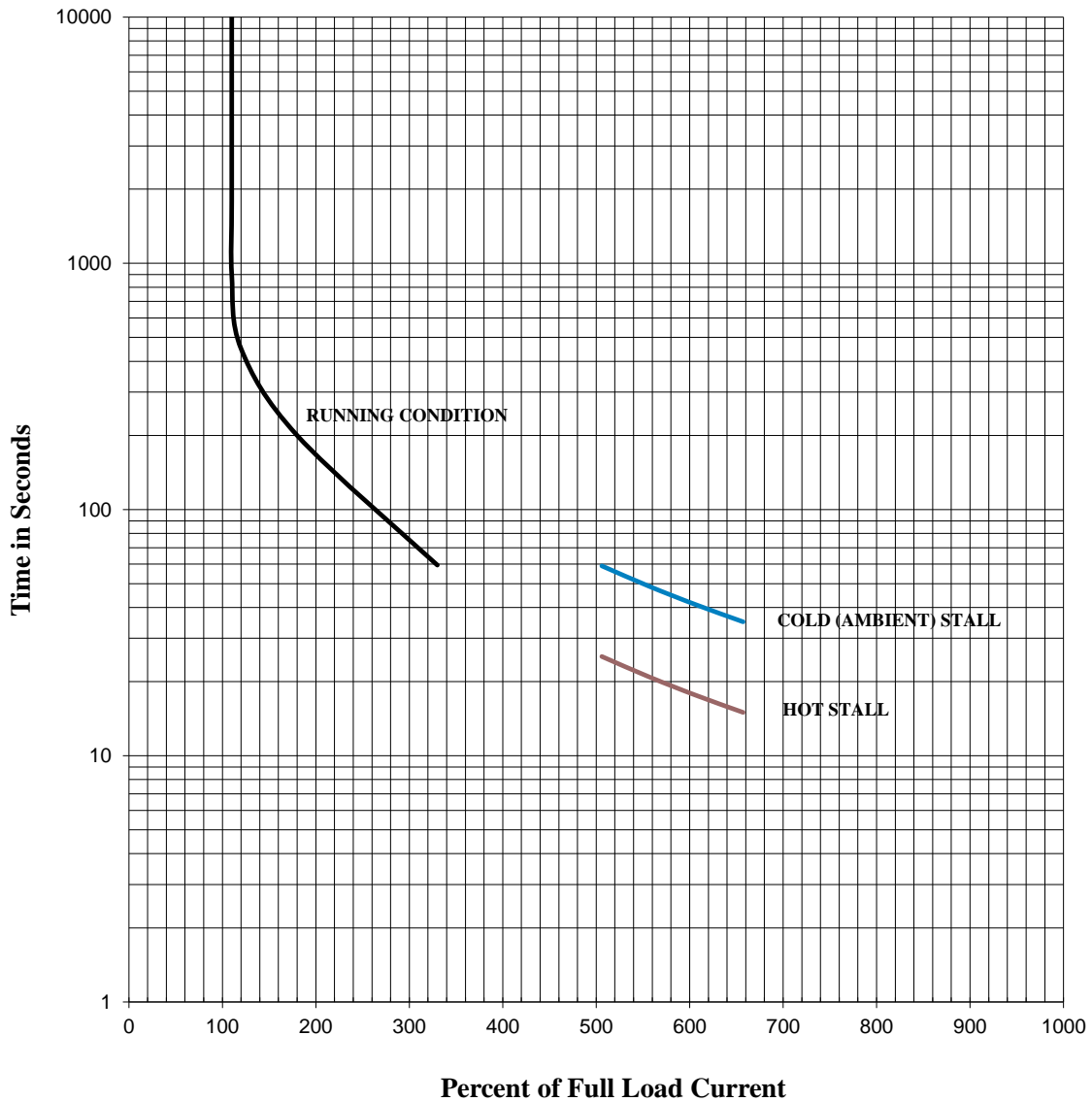
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0186SDMW7JS-P			FLAmps:	35
Enclosure:	TEFC	Voltage:	415 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	980	Load Inertia:	N/A	File:	3H6018 (18.5kW)



Comments: PROJECT -

D.E.Curve #: 3H6018 (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.: -	VOLTS: 380	3 PH / 50 Hz	S. RPM: 1000
FRAME: 200L	ENCL: TEFC	FLAMPS: 37	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0186SDMW7JS-P		kW: 18.5	
NOM. EFF.: 91.7	MIN. EFF.: -	cosØ 0.82	

AMPERAGE

LOCKED ROTOR: 208

TORQUES

FULL LOAD (lb-ft.): 134
LOCKED ROTOR (%): 230
BREAK DOWN (%): 285

****BEARINGS:**

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

EFFICIENCY

FULL LOAD: 91.8
3/4 LOAD: 92.2
1/2 LOAD: 91.4

POWER FACTOR

FULL LOAD: 82.4
3/4 LOAD: 79.1
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.

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

CERTIFIED BY: Zichao Xie

DATE: 1/7/2021

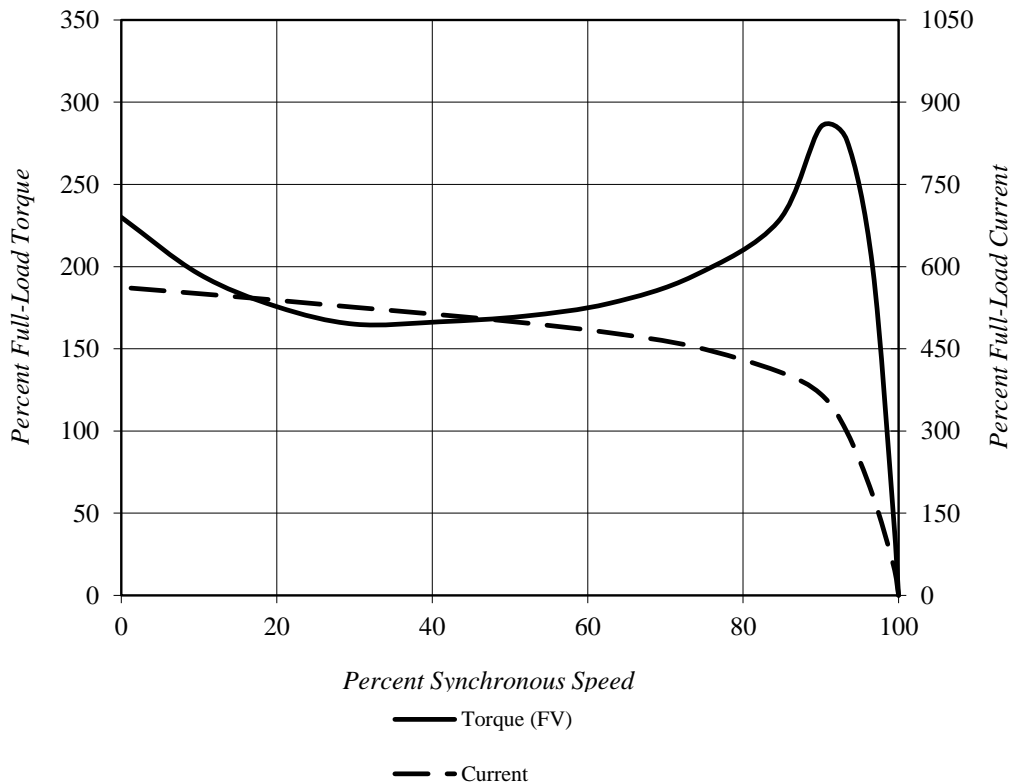
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0186SDMW7JS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	975	Load Inertia:	N/A	File:	3H6018 (18.5kW)

Locked Rotor Amps:	208 A	Load Type:	N/A
Locked Rotor Torque:	230%	Starting at:	N/A
Breakdown Torque:	285%	Accel. Time:	N/A
Rated Torque:	134 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: 3H6018 (18.5kW)

Prepared by: Zichao Xie

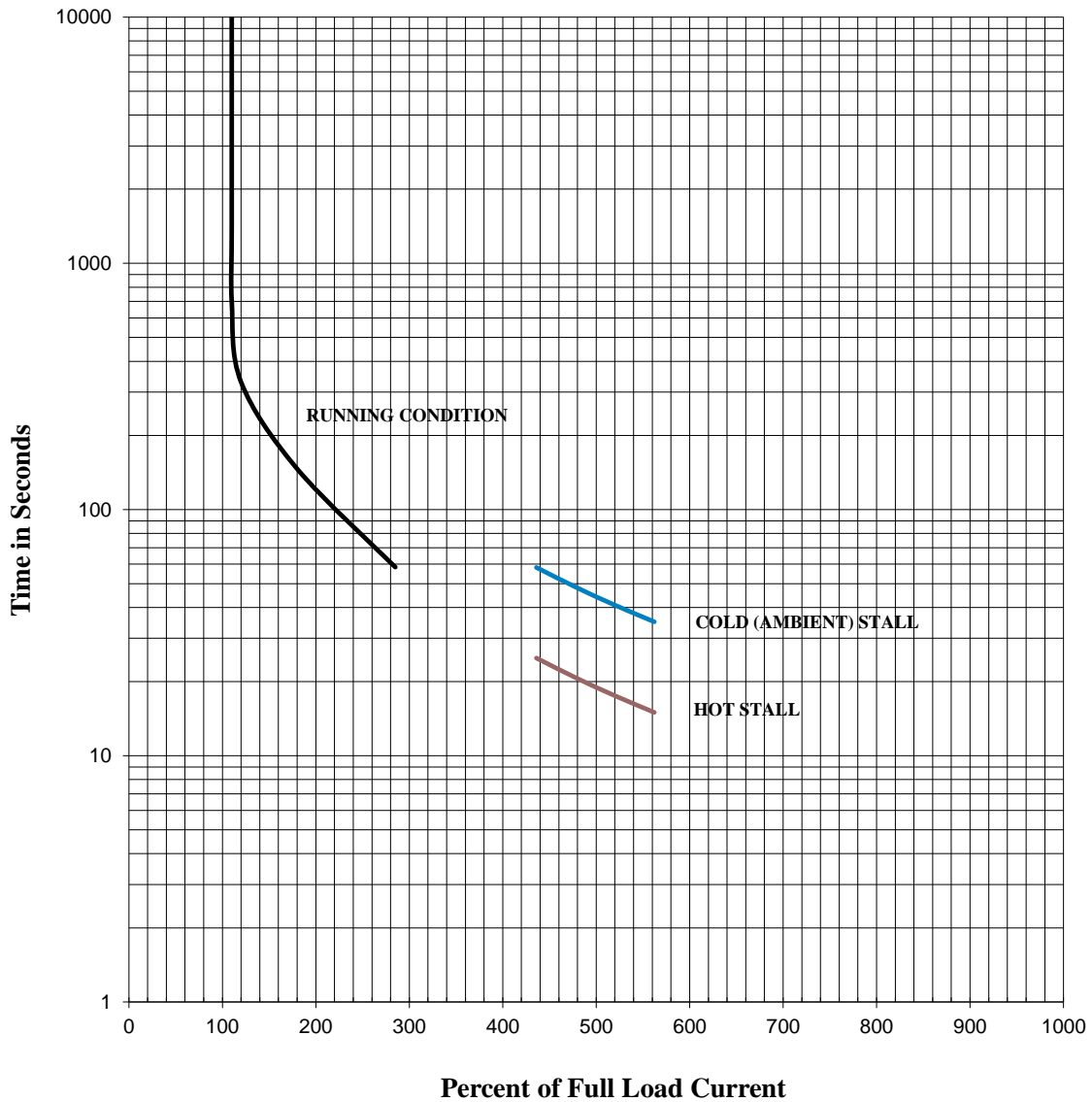
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0186SDMW7JS-P			FLAmps:	37
Enclosure:	TEFC	Voltage:	380 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	18.5	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	975	Load Inertia:	N/A	File:	3H6018 (18.5kW)



Comments: PROJECT _____

D.E.Curve #: 3H6018 (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: 1200
FRAME: 200L	ENCL: TEFC	FLAMPS: 31	FLRPM: 1180
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: J	DUTY: Cont.
MODEL No.: 0186SDMW7JS-P		kW: 18.5	
NOM. EFF.: 93.0	MIN. EFF.: -	P.F.: 79.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 226	FULL LOAD (lb-ft.): 110	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 310	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 335	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.5	FULL LOAD: 79.4
3/4 LOAD: 93.2	3/4 LOAD: 74.6
1/2 LOAD: 91.7	1/2 LOAD: 64.6

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).

CERTIFIED BY: Zichao Xie

DATE: 1/7/2021

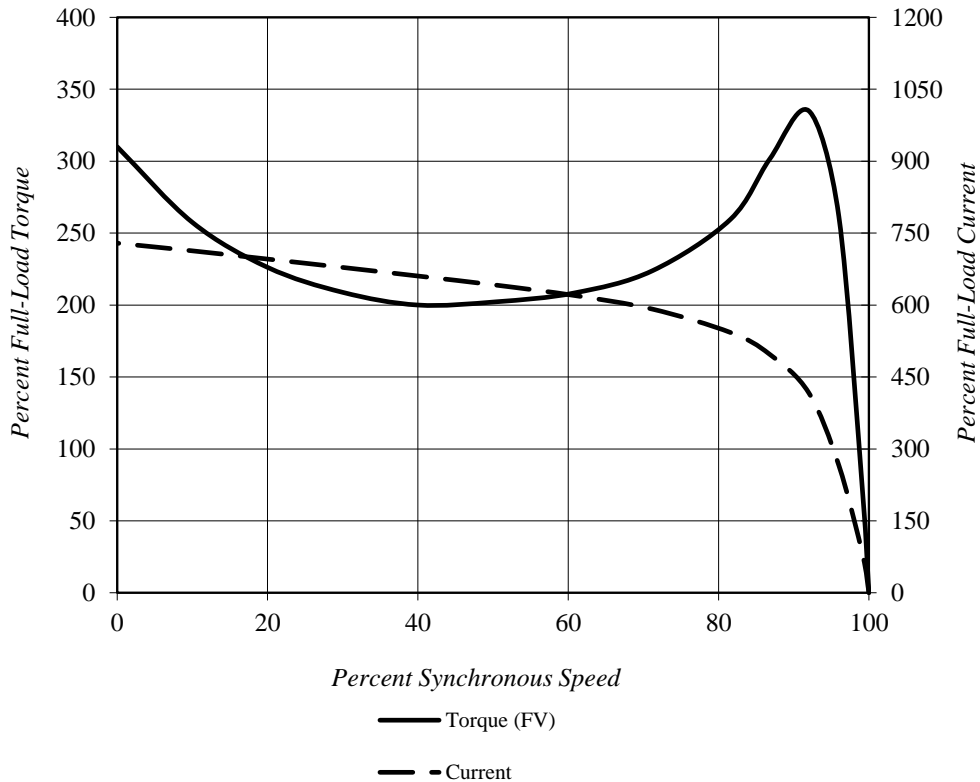
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0186SDMW7JS-P			FLAmps:	31
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	1180	Load Inertia:	N/A	File:	H6018 (18.5kW)

Locked Rotor Amps:	226 A	Load Type:	N/A
Locked Rotor Torque:	310%	Starting at:	N/A
Breakdown Torque:	335%	Accel. Time:	N/A
Rated Torque:	110 lb-ft		

Design Values



Comments: PROJECT -

D.E. Curve #: H6018 (18.5kW)

Prepared by: Zichao Xie

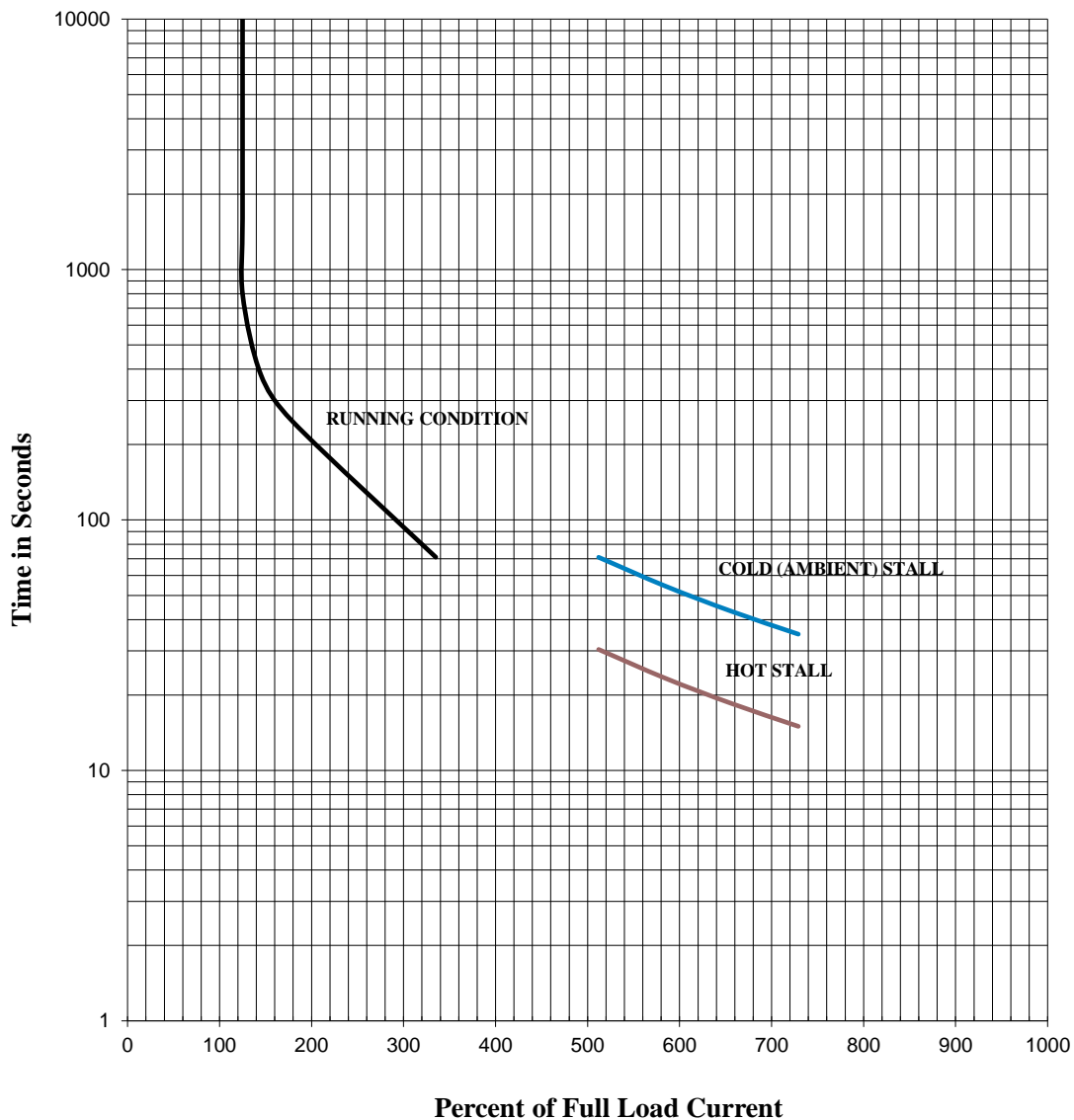
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0186SDMW7JS-P			FLAmps:	31
Enclosure:	TEFC	Voltage:	460 V	Frame:	200L
Pole:	6	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	25	Rotor Inertia:	11.3 lb-ft ²	Date:	1/7/2021
FLRPM:	1180	Load Inertia:	N/A	File:	H6018 (18.5kW)



Comments: PROJECT -

D.E. Curve #: H6018 (18.5kW)

Prepared by: Zichao Xie	Checked by:
--------------------------------	--------------------