

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: 225S	ENCL: TEFC	FLAMPS: 68	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0374SDMW7FS-P		kW: 37	
NOM. EFF.: 93.9	MIN. EFF.: -	cosØ 0.82	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 634	FULL LOAD (lb-ft.): 176	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 220	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 285	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.6	FULL LOAD: 82.5
3/4 LOAD: 94.0	3/4 LOAD: 79.1
1/2 LOAD: 92.4	1/2 LOAD: 70.8

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: 10/21/2019

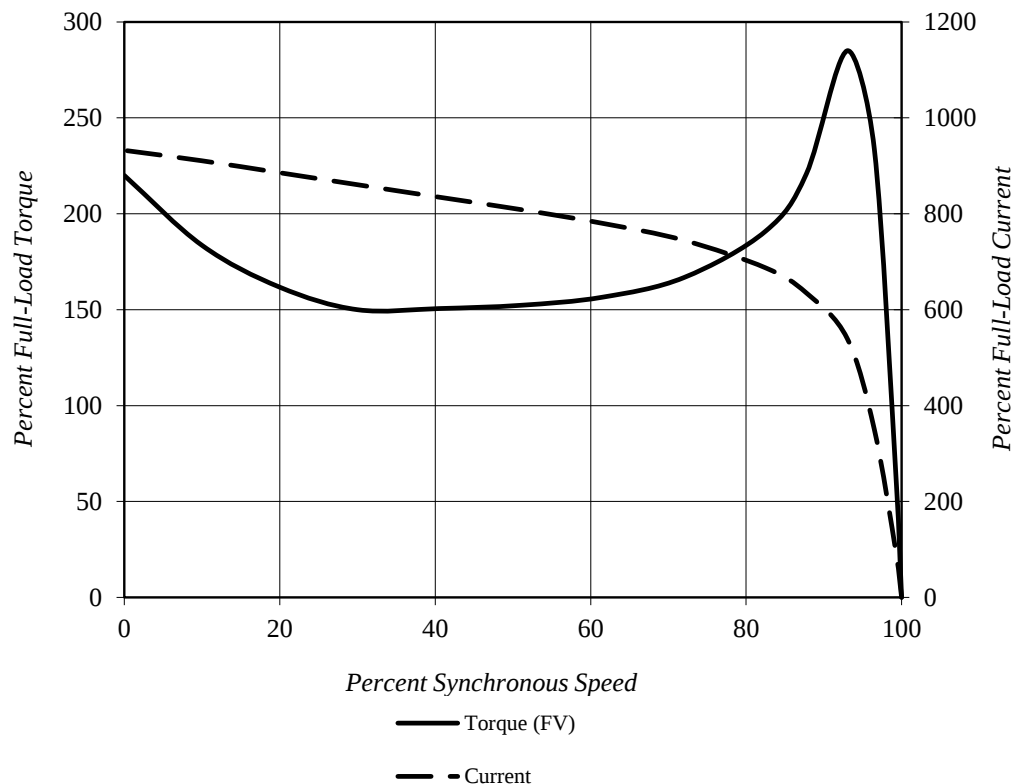
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0374SDMW7FS-P			FLAmps:	68
Enclosure:	TEFC	Voltage:	400 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)

Locked Rotor Amps:	634 A	Load Type:	N/A
Locked Rotor Torque:	220%	Starting at:	N/A
Breakdown Torque:	285%	Accel. Time:	N/A
Rated Torque:	176 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

Prepared by: Zichao Xie

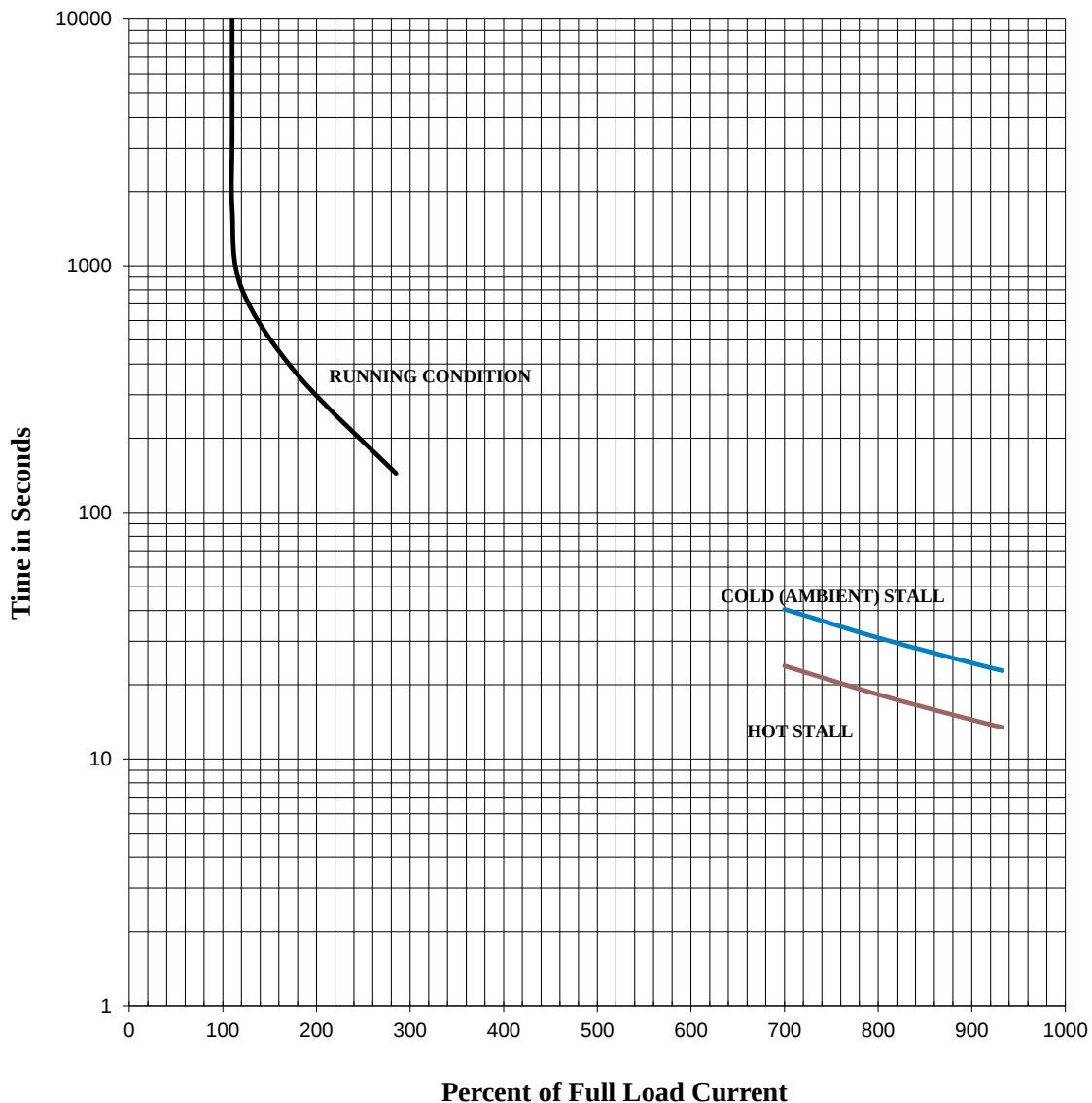
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0374SDMW7FS-P			FLAmps:	68
Enclosure:	TEFC	Voltage:	400 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

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: 1500
FRAME: 225S	ENCL: TEFC	FLAMPS: 67	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0374SDMW7FS-P		kW: 37	
NOM. EFF.: 93.9	MIN. EFF.: -	cosØ 0.81	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 663	FULL LOAD (lb-ft.): 176	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 240	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 305	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.8	FULL LOAD: 81.0
3/4 LOAD: 94.2	3/4 LOAD: 76.8
1/2 LOAD: 92.4	1/2 LOAD: 67.3

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: 10/21/2019

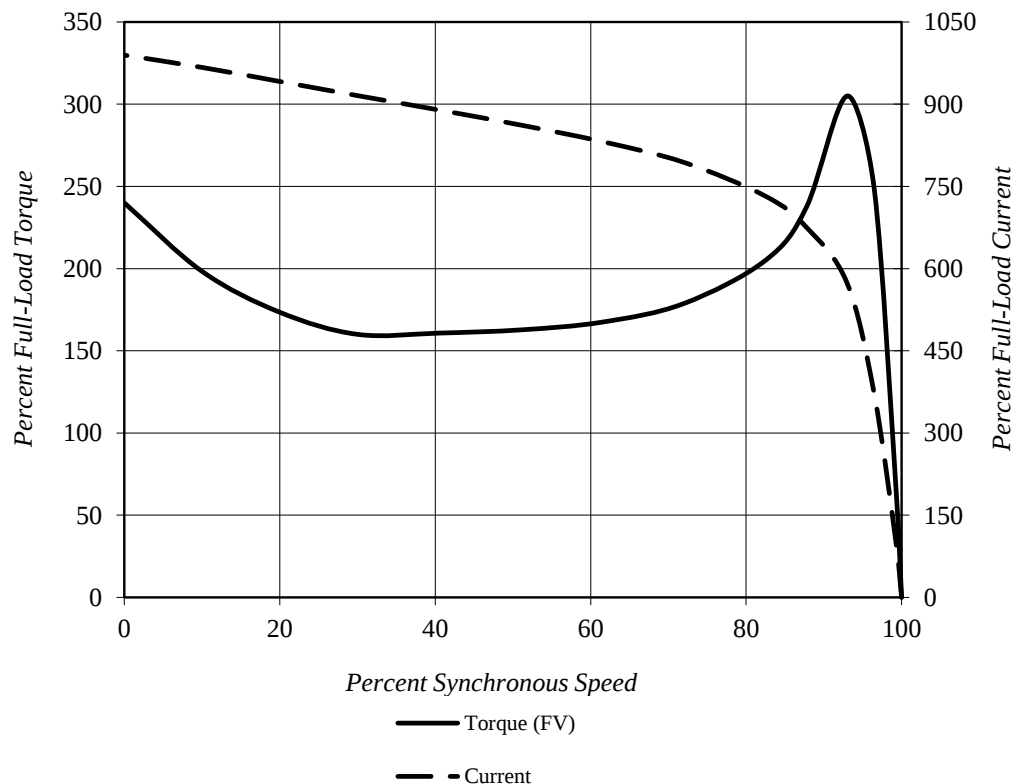
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0374SDMW7FS-P			FLAmps:	67
Enclosure:	TEFC	Voltage:	415 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)

Locked Rotor Amps:	663 A	Load Type:	N/A
Locked Rotor Torque:	240%	Starting at:	N/A
Breakdown Torque:	305%	Accel. Time:	N/A
Rated Torque:	176 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

Prepared by: Zichao Xie

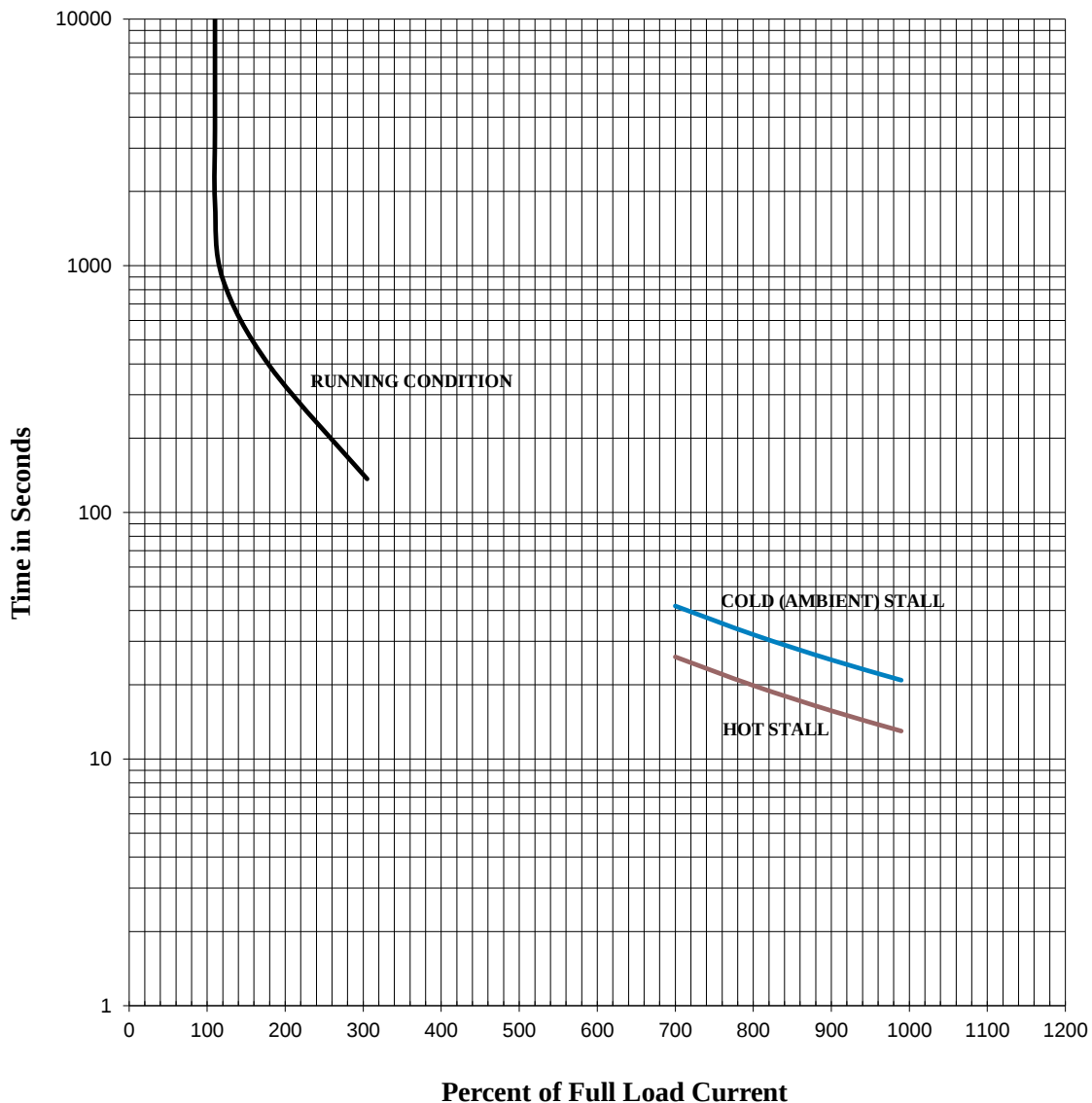
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0374SDMW7FS-P			FLAmps:	67
Enclosure:	TEFC	Voltage:	415 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

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: 1500
FRAME: 225S	ENCL: TEFC	FLAMPS: 71	FLRPM: 1480
FORM: FBK1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0374SDMW7FS-P		kW: 37	
NOM. EFF.: 93.9	MIN. EFF.: -	cosØ 0.84	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 596	FULL LOAD (lb-ft.): 176	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 195	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 260	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.4	FULL LOAD: 84.1
3/4 LOAD: 94.0	3/4 LOAD: 81.7
1/2 LOAD: 92.6	1/2 LOAD: 75.1

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: 10/21/2019

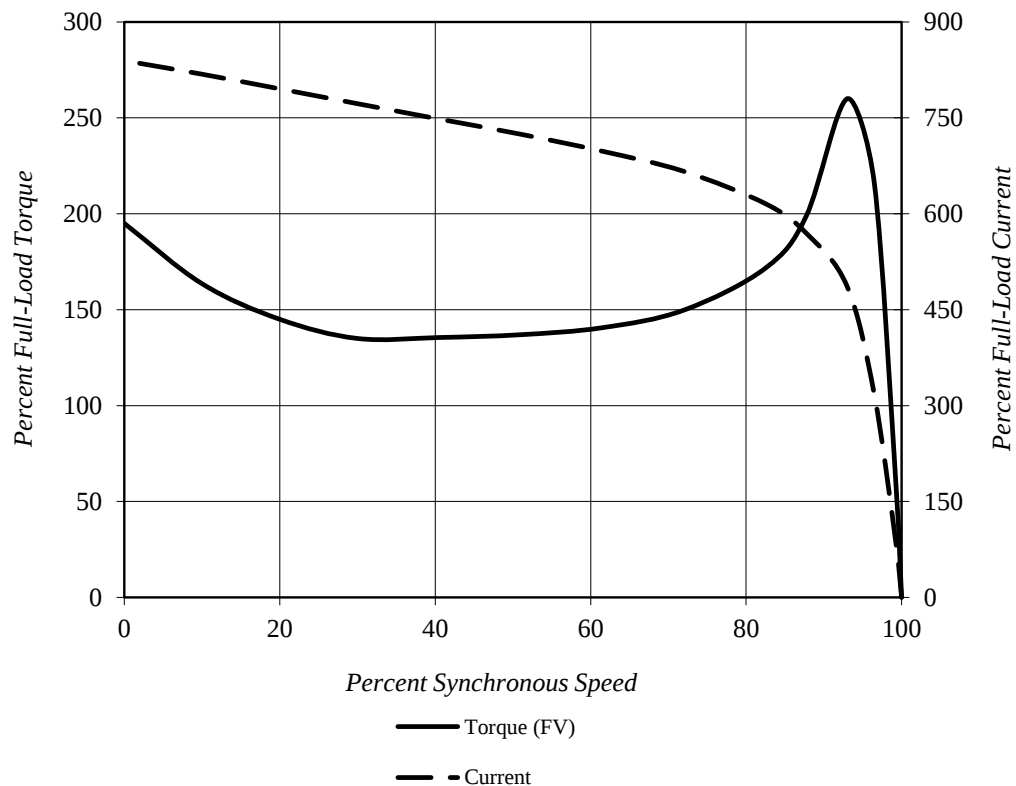
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0374SDMW7FS-P			FLAmps:	71
Enclosure:	TEFC	Voltage:	380 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)

Locked Rotor Amps:	596 A	Load Type:	N/A
Locked Rotor Torque:	195%	Starting at:	N/A
Breakdown Torque:	260%	Accel. Time:	N/A
Rated Torque:	176 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

Prepared by: Zichao Xie

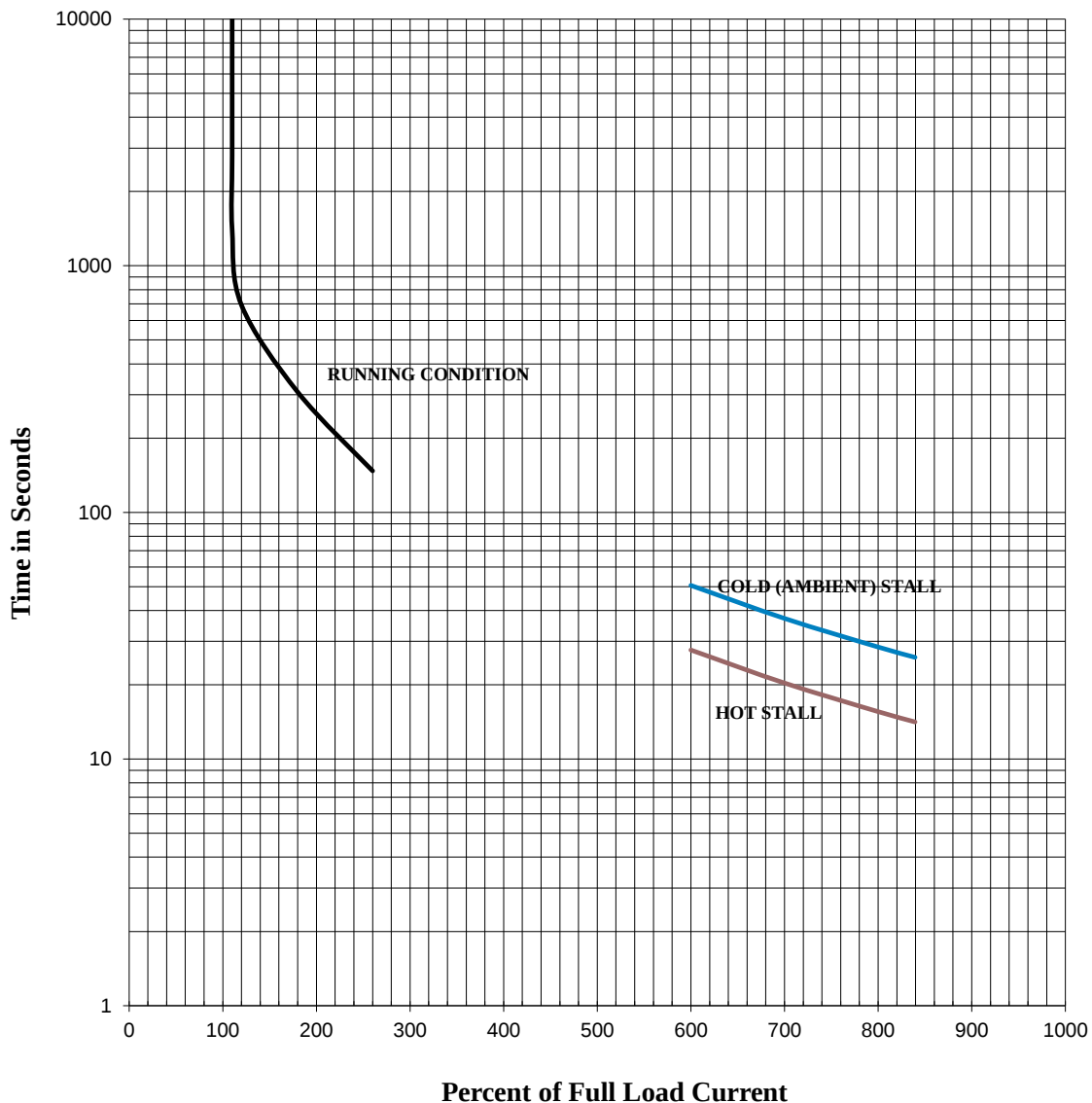
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0374SDMW7FS-P			FLAmps:	71
Enclosure:	TEFC	Voltage:	380 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 50 Hz	Ins. Class:	F
KW:	37	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1480	Load Inertia:	N/A	File:	GH4037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

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.: 50	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 225S	ENCL: TEFC	FLAMPS: 61	FLRPM: 1785
FORM: FBK1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: 0374SDMW7FS-P		kW: 37	
NOM. EFF.: 94.5	MIN. EFF.: -	P.F.: 80.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 614	FULL LOAD (lb-ft.): 146	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 245	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 315	

EFFICIENCY	POWER FACTOR
FULL LOAD: 94.8	FULL LOAD: 80.5
3/4 LOAD: 94.0	3/4 LOAD: 76.9
1/2 LOAD: 92.0	1/2 LOAD: 68.4

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: 10/21/2019

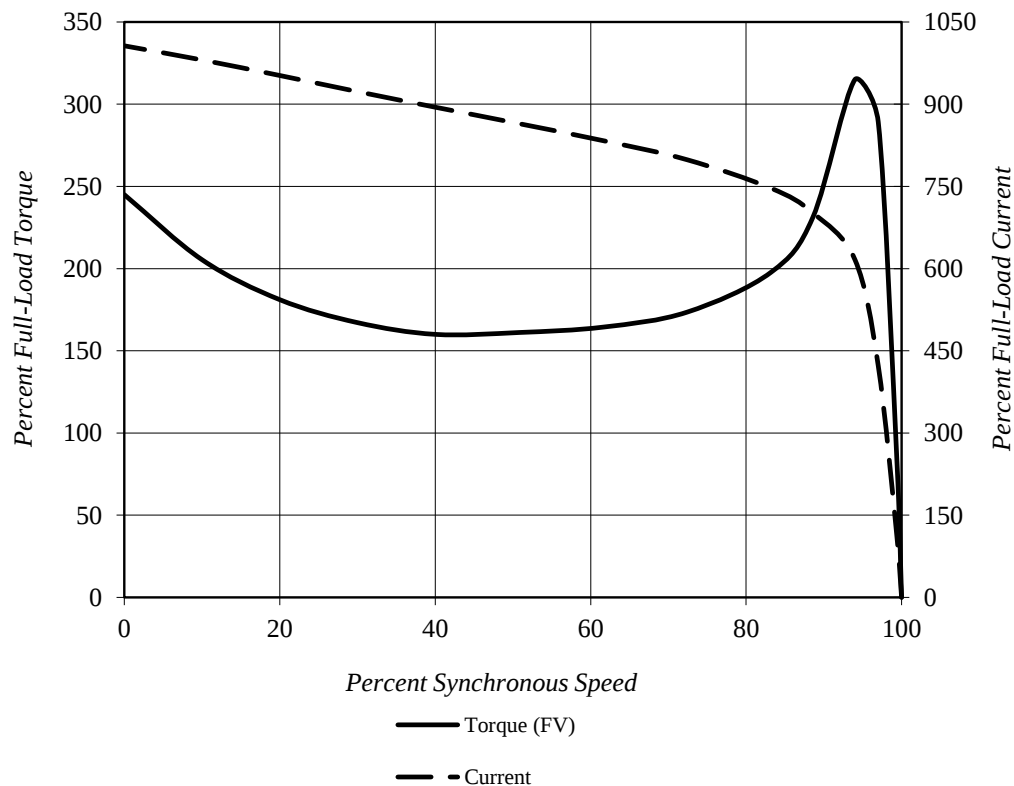
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0374SDMW7FS-P			FLAmps:	61
Enclosure:	TEFC	Voltage:	460 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	50	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1785	Load Inertia:	N/A	File:	GH4037 (37kW)

Locked Rotor Amps:	614 A	Load Type:	N/A
Locked Rotor Torque:	245%	Starting at:	N/A
Breakdown Torque:	315%	Accel. Time:	N/A
Rated Torque:	146 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

Prepared by: Zichao Xie

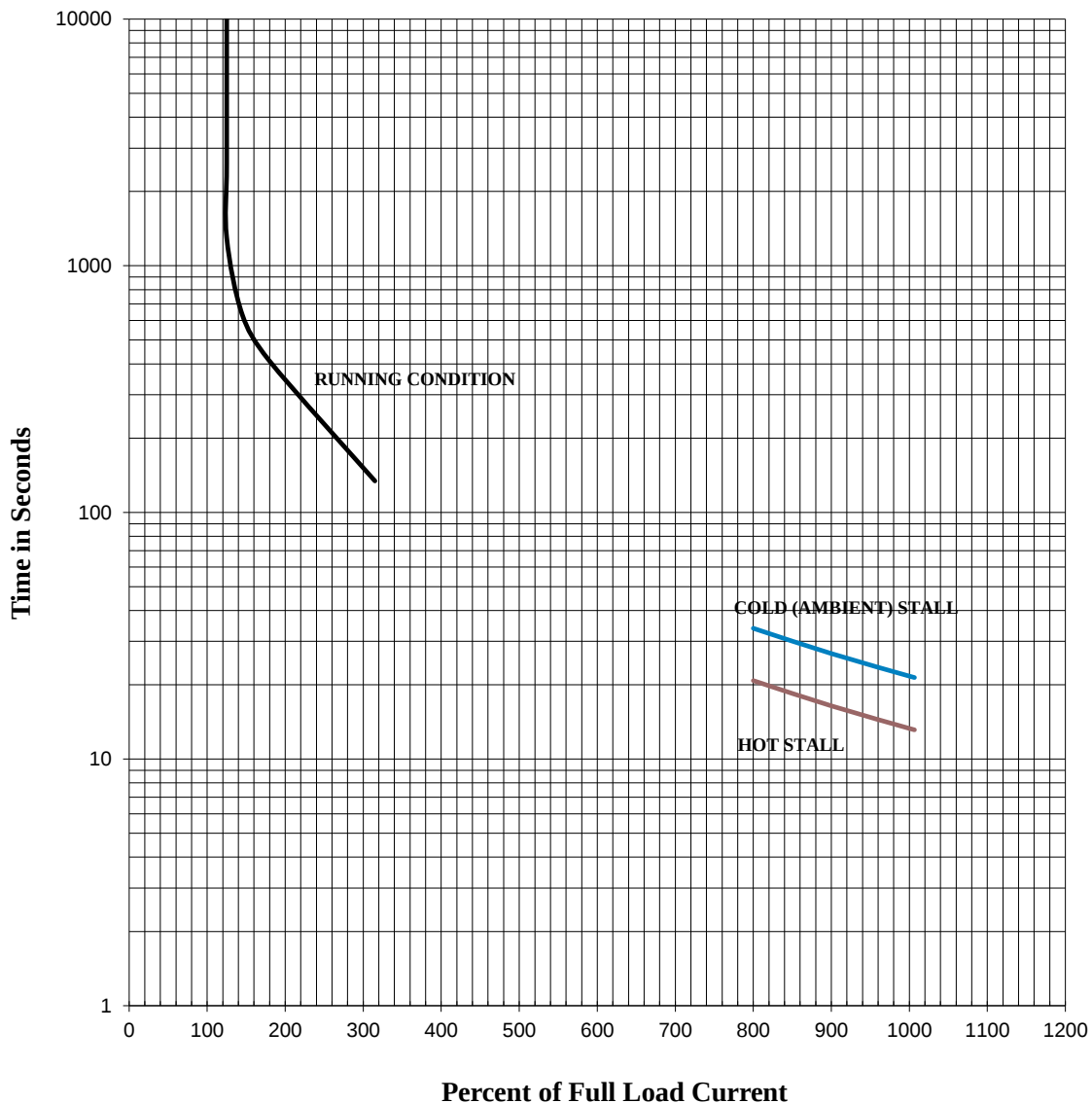
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0374SDMW7FS-P			FLAmps:	61
Enclosure:	TEFC	Voltage:	460 V	Frame:	225S
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	50	Rotor Inertia:	12.9 lb-ft ²	Date:	10/21/2019
FLRPM:	1785	Load Inertia:	N/A	File:	GH4037 (37kW)



Comments: PROJECT -

D.E.Curve #: GH4037 (37kW)

Prepared by: Zichao Xie

Checked by: