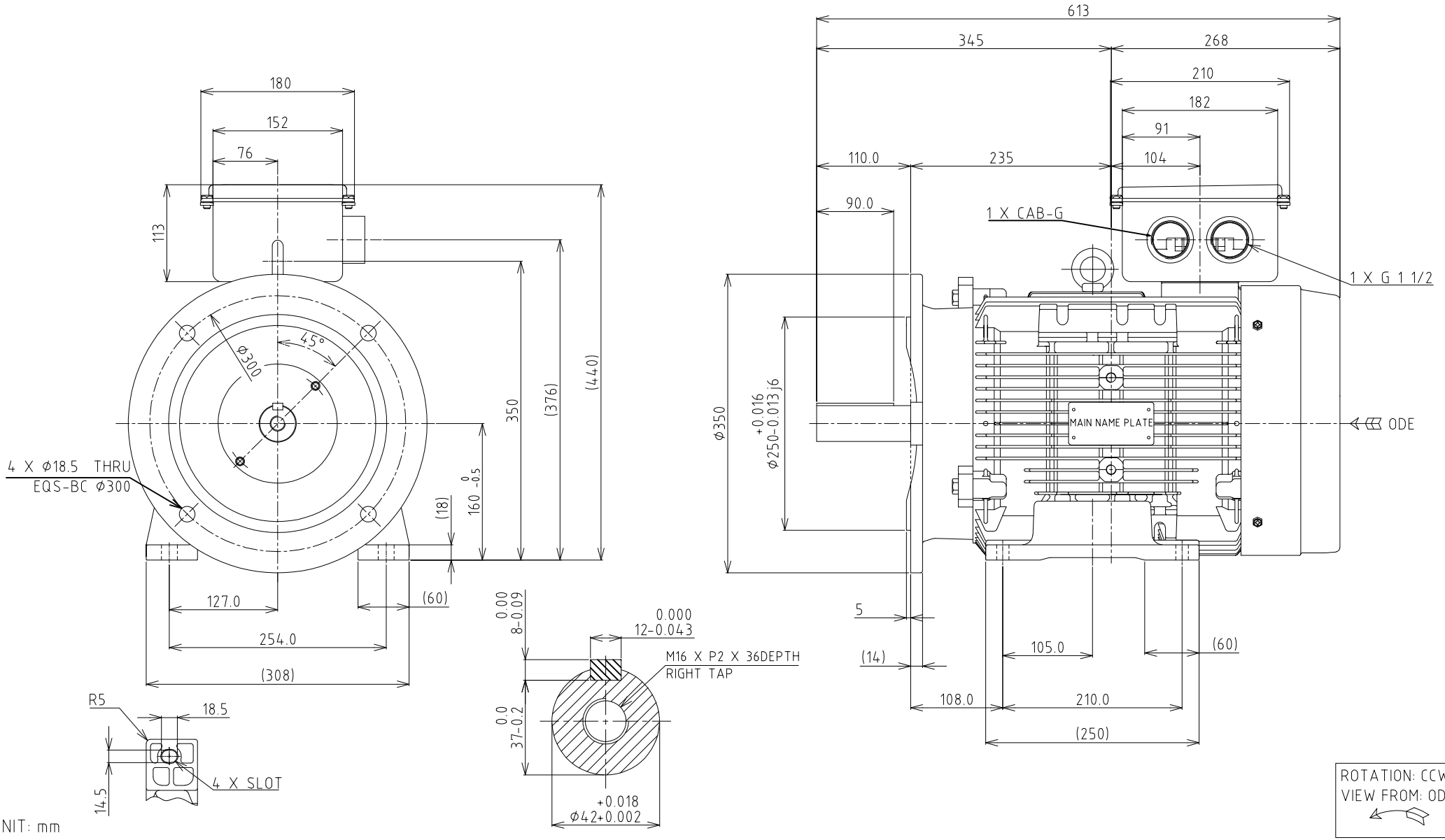

ROTATION: CCW
VIEW FROM: ODE

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.

B35-FLANGE MOTOR
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V
FRAME: 160M

3HFN000235

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
01	Adding tolerance dimension "H"	T.Danh	Sep-10-18	B.Quynh

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

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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:	20	FLRPM:	2930
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0112SDMW7GS-PL			kW:	11		
NOM. EFF.:	91.2	MIN. EFF.:	-	cosØ	0.86		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	142	FULL LOAD (lb-ft.):	26	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	235	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	305		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.6	FULL LOAD:	86.1
3/4 LOAD:	91.2	3/4 LOAD:	82.7
1/2 LOAD:	89.4	1/2 LOAD:	74.6

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: 8/5/2020

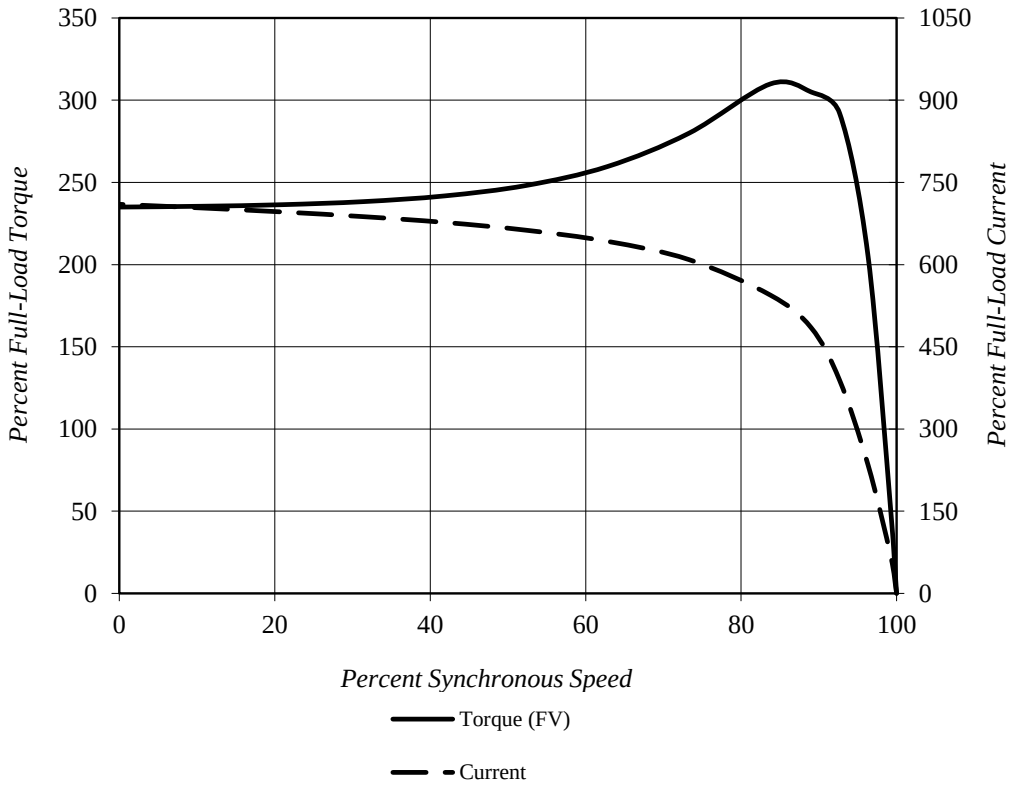
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7GS-PL			***FLAmps:***	20
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2930	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)

Locked Rotor Amps:	142 A	***Load Type:***	N/A
Locked Rotor Torque:	235%	***Starting at:***	N/A
Breakdown Torque:	305%	***Accel. Time:***	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

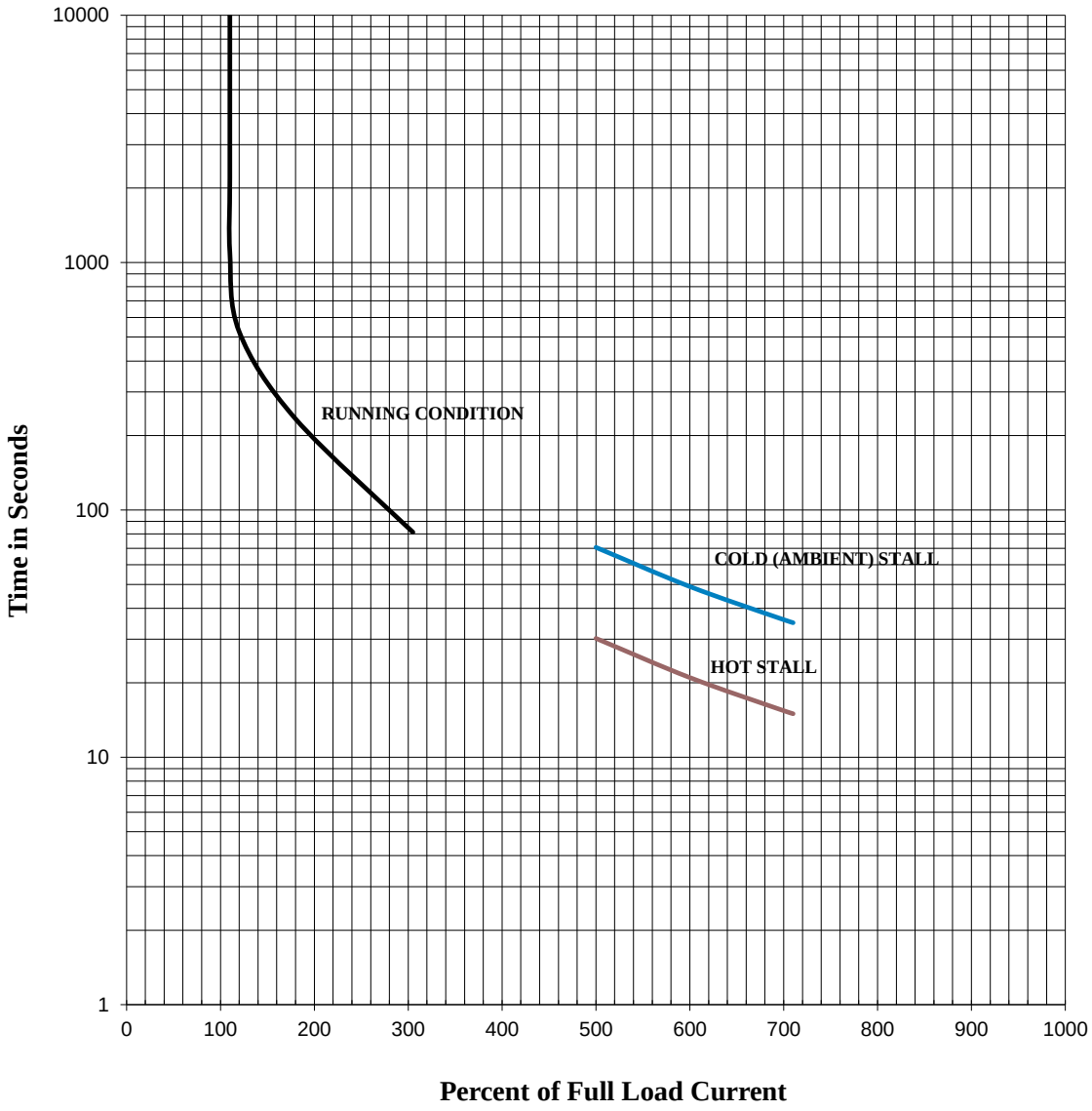
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7GS-PL			***FLAmps:***	20
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2930	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

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APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	415	3 PH /	50 Hz	S. RPM:	3000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	19.8	FLRPM:	2935
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0112SDMW7GS-PL			kW:	11		
NOM. EFF.:	91.2	MIN. EFF.:	-	cosØ	0.84		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	147	FULL LOAD (lb-ft.):	26	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	255	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	325		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.9	FULL LOAD:	84.2
3/4 LOAD:	91.4	3/4 LOAD:	79.8
1/2 LOAD:	89.4	1/2 LOAD:	70.2

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 DEFINED BY NEMA-MG-12 OR -20.

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

CERTIFIED BY: Zichao Xie

DATE: 8/5/2020

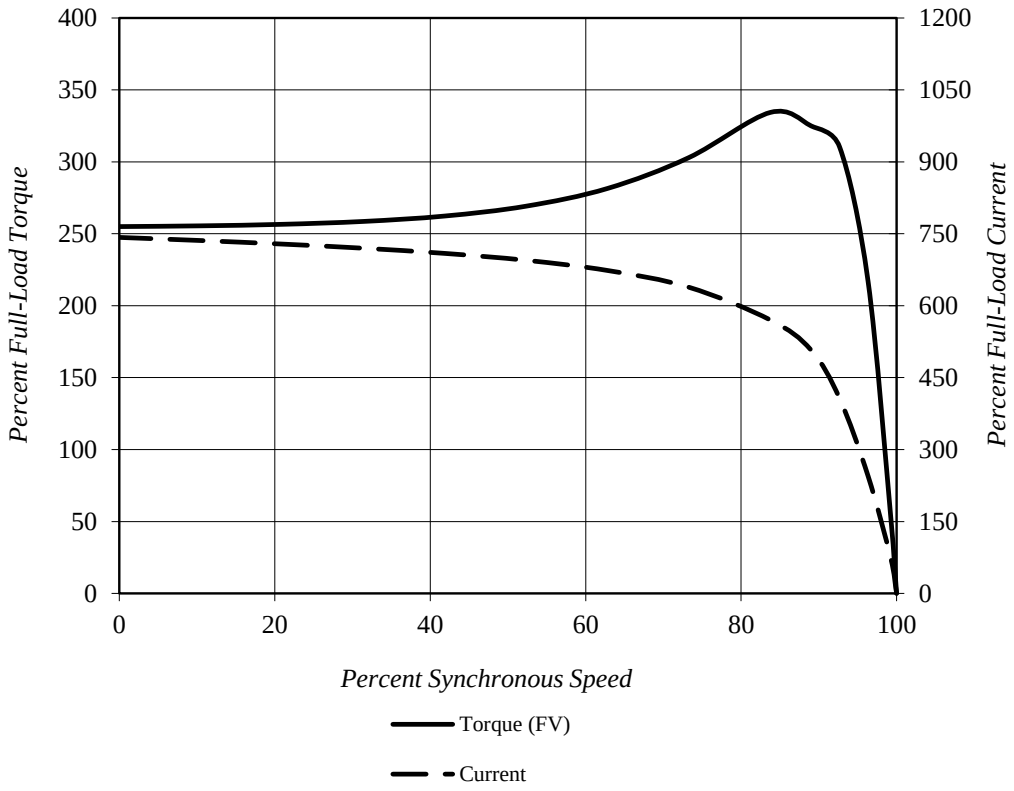
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7GS-PL			***FLAmps:***	19.8
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2935	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)

Locked Rotor Amps:	147 A	***Load Type:***	N/A
Locked Rotor Torque:	255%	***Starting at:***	N/A
Breakdown Torque:	325%	***Accel. Time:***	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT - ***D.E.Curve #:*** GH2011 (11kW)

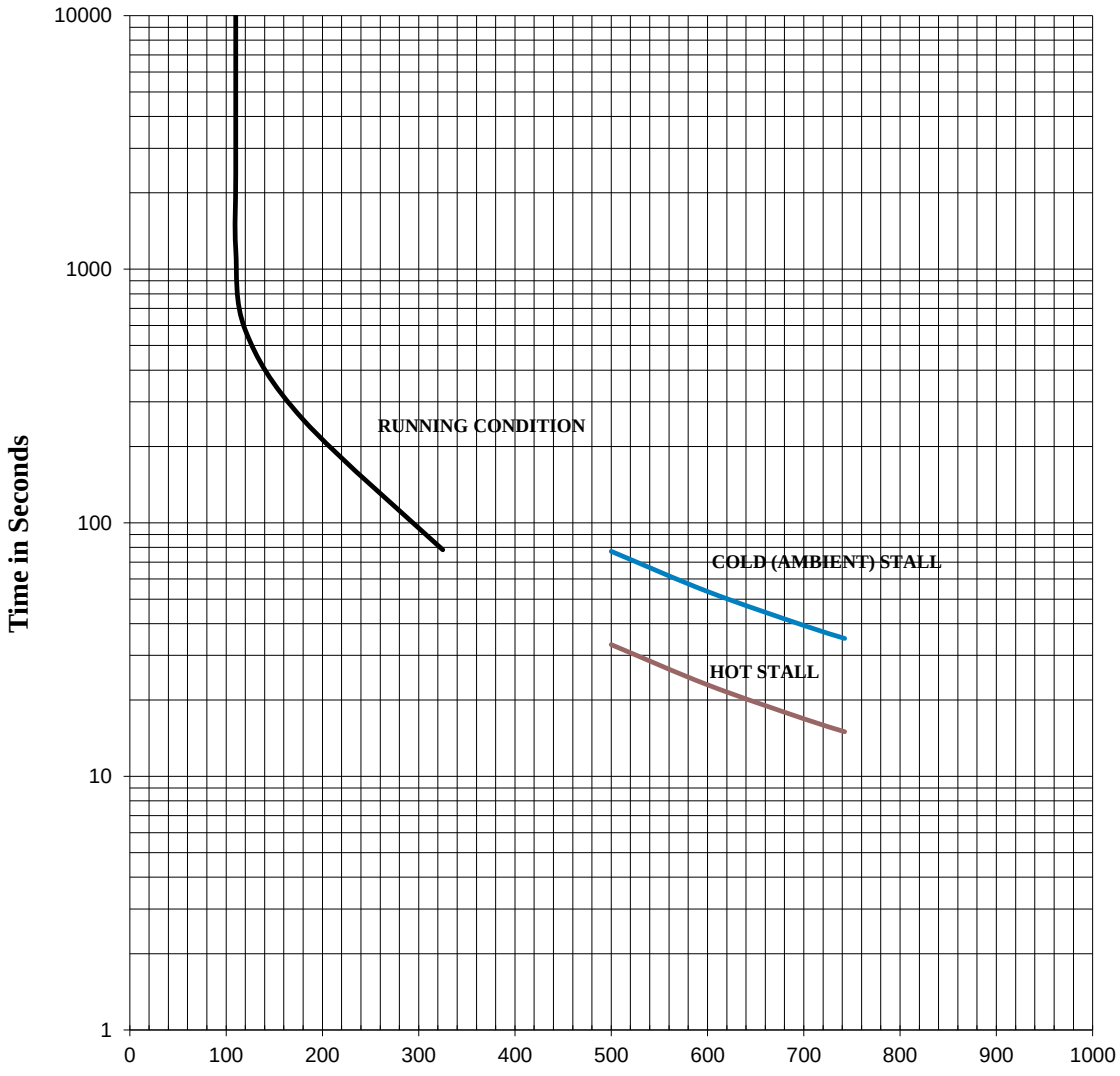
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7GS-PL			***FLAmps:***	19.8
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2935	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

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APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	380	3 PH /	50 Hz	S. RPM:	3000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	21	FLRPM:	2925
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0112SDMW7GS-PL			kW:	11		
NOM. EFF.:	91.2	MIN. EFF.:	-	cosØ	0.88		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	134	FULL LOAD (lb-ft.):	26	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	210	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	275		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.1	FULL LOAD:	88.1
3/4 LOAD:	90.9	3/4 LOAD:	85.9
1/2 LOAD:	89.4	1/2 LOAD:	79.8

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: 8/5/2020

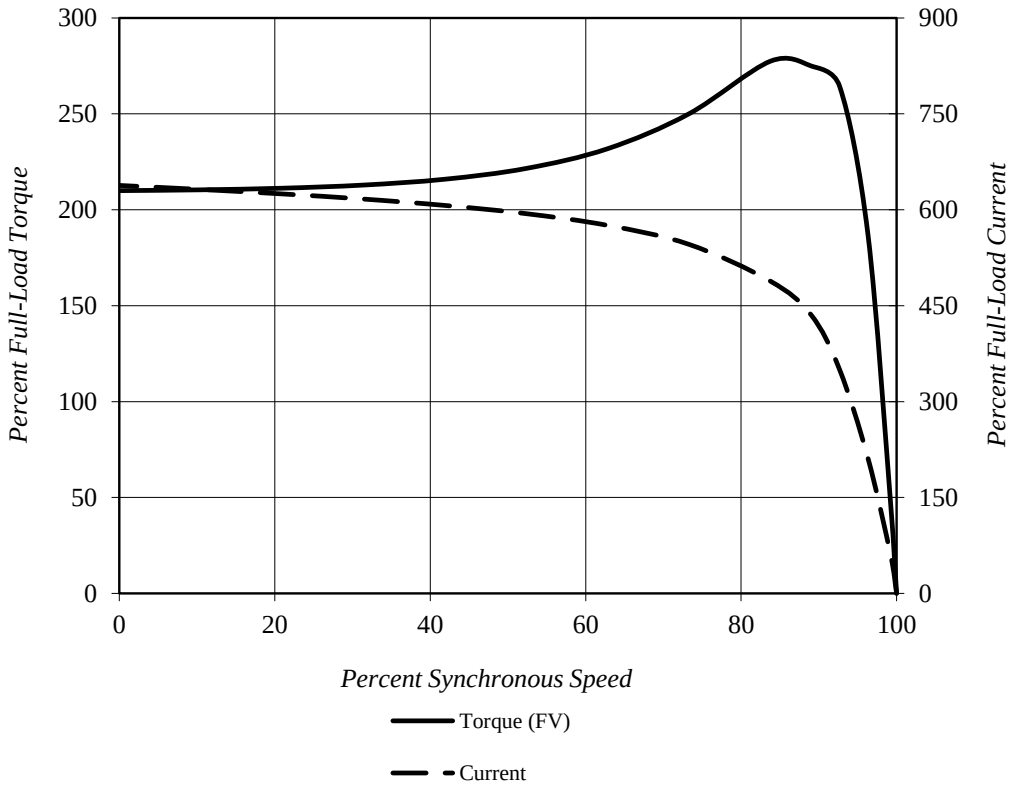
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7GS-PL			***FLAmps:***	21
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2925	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)

Locked Rotor Amps:	134 A	***Load Type:***	N/A
Locked Rotor Torque:	210%	***Starting at:***	N/A
Breakdown Torque:	275%	***Accel. Time:***	N/A
Rated Torque:	26 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

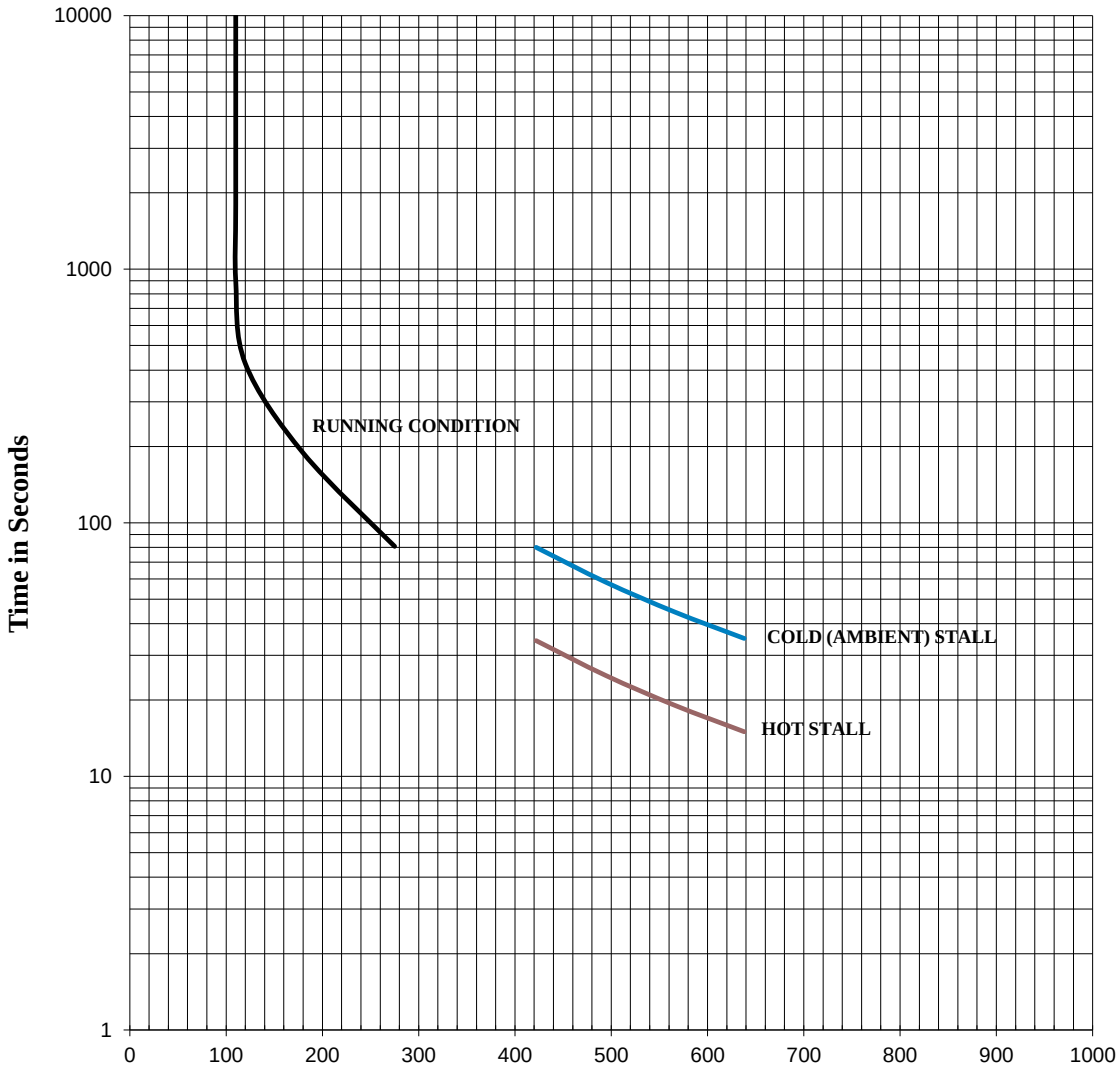
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7GS-PL			***FLAmps:***	21
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	11	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	8/5/2020
FLRPM:	2925	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION
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APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	15	VOLTS:	460	3 PH /	60 Hz	S. RPM:	3600
FRAME:	160M	ENCL:	TEFC	FLAMPS:	17.8	FLRPM:	3550
FORM:	FCKL1	S.F.:	1.15	NEMA DESIGN:	A	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	J	DUTY:	Cont.
MODEL No.:	0112SDMW7GS-PL			kW:	11		
NOM. EFF.:	91.0	MIN. EFF.:	-	P.F.:	85.0		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	137	FULL LOAD (lb-ft.):	22	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	275	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	390		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.1	FULL LOAD:	85.2
3/4 LOAD:	90.3	3/4 LOAD:	81.7
1/2 LOAD:	88.0	1/2 LOAD:	73.5

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: 1/8/2020

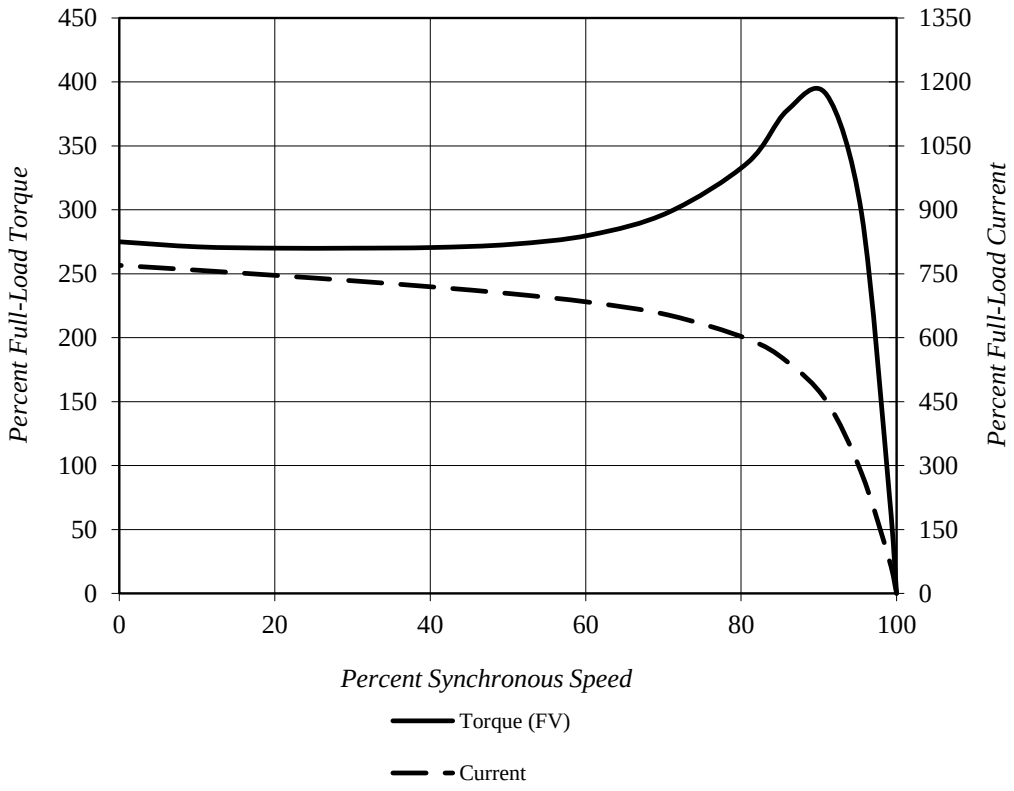
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0112SDMW7GS-PL			***FLAmps:***	17.8
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	15	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	1/8/2020
FLRPM:	3550	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)

Locked Rotor Amps:	137 A	***Load Type:***	N/A
Locked Rotor Torque:	275%	***Starting at:***	N/A
Breakdown Torque:	390%	***Accel. Time:***	N/A
Rated Torque:	22 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

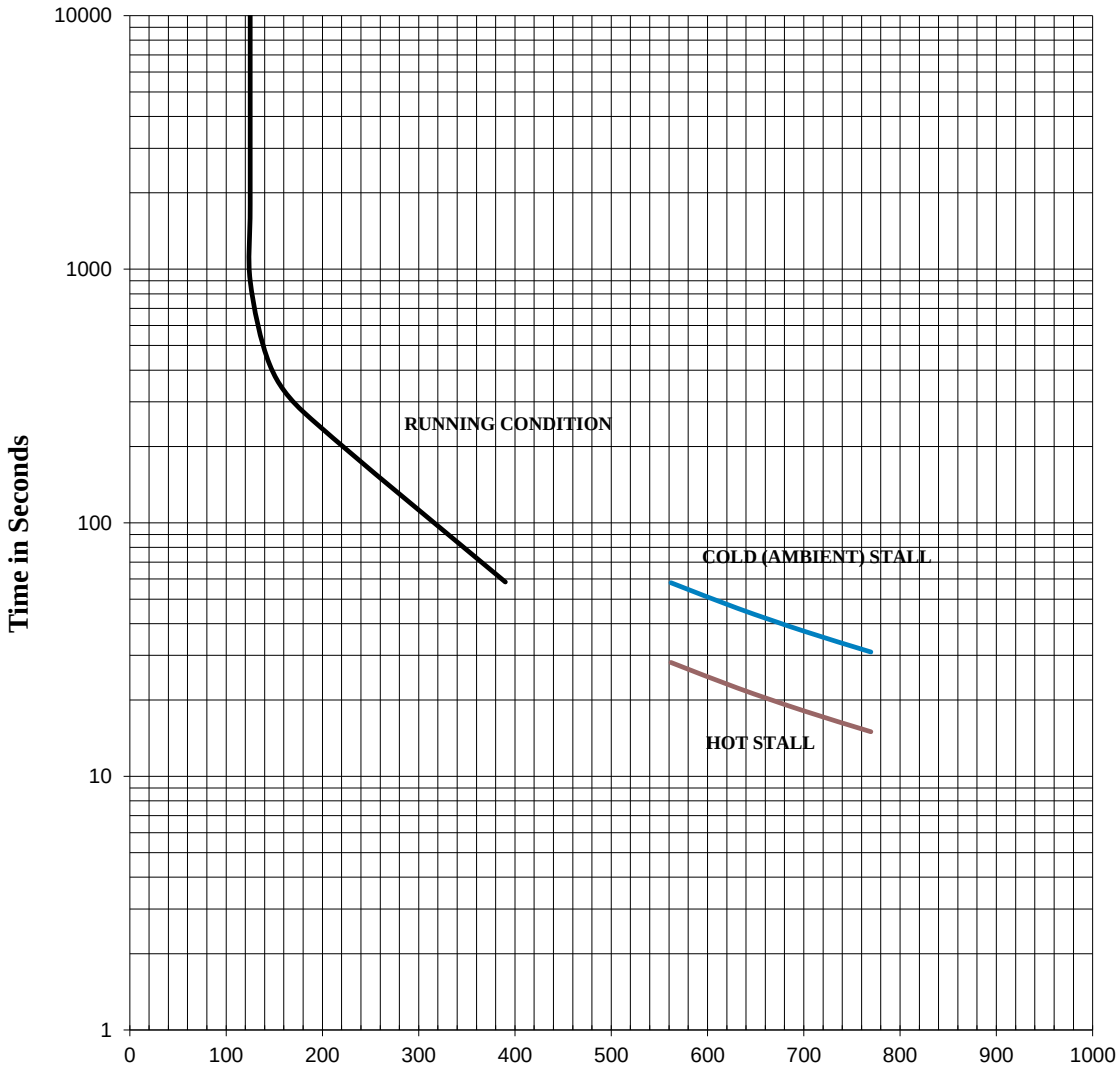
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0112SDMW7GS-PL			***FLAmps:***	17.8
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	15	***Rotor Inertia:***	1.2 lb-ft²	***Date:***	1/8/2020
FLRPM:	3550	***Load Inertia:***	N/A	***File:***	GH2011 (11kW)



Comments: PROJECT -

D.E.Curve #: GH2011 (11kW)

Prepared by: Zichao Xie	***Checked by:***