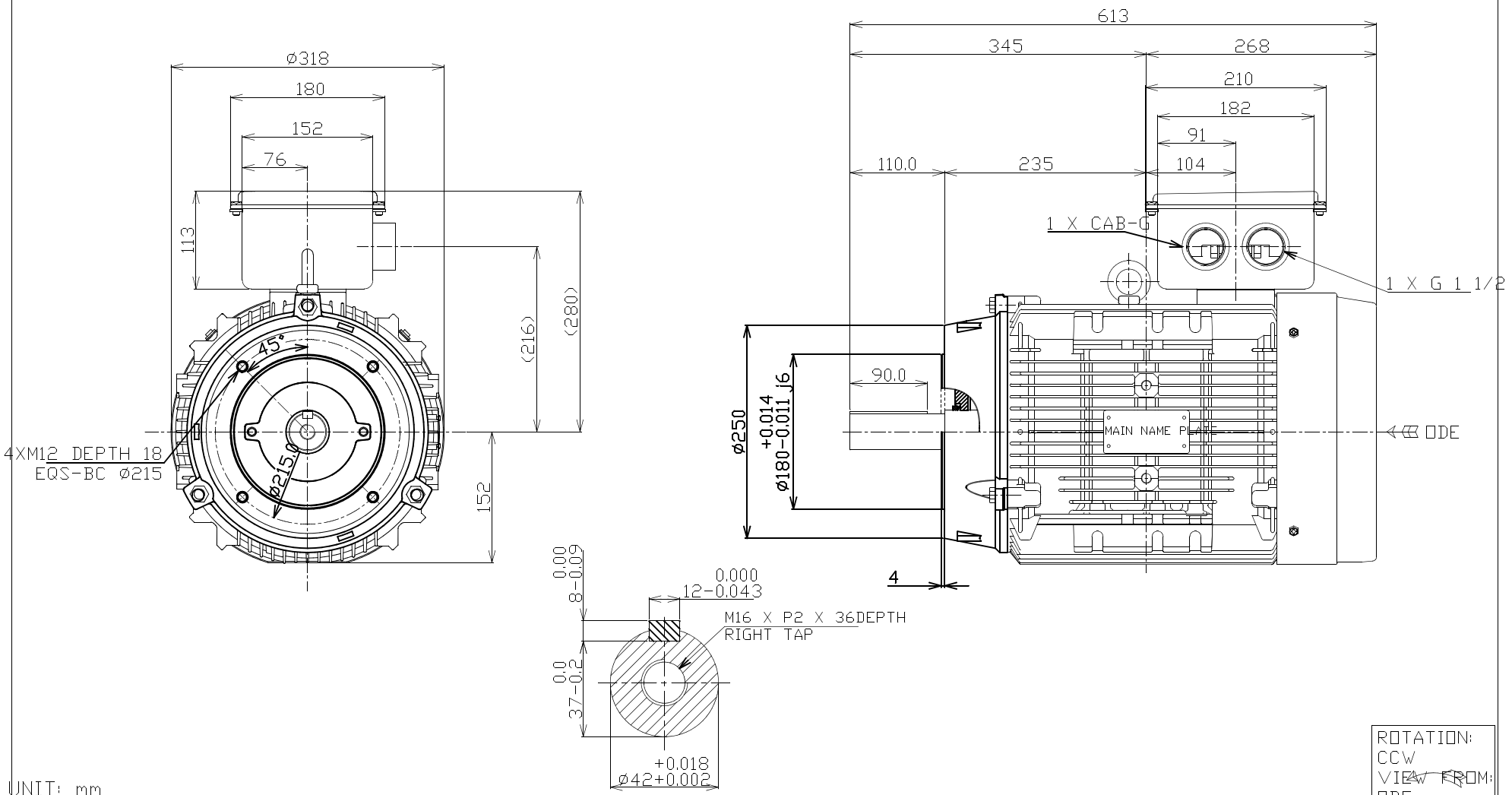


UNIT: mm

ROTATION: CCW
VIEW FROM: ODE

B14-FLANGE MOTOR OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V

FRAME: 160M

3HFN000319

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

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

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	400	3 PH /	50 Hz	S. RPM:	1000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	15.4	FLRPM:	965
FORM:	FBKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	Y756SDMW7KS-PL			kW:	7.5		
NOM. EFF.:	89.1	MIN. EFF.:	-	cosØ	0.78		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	105	FULL LOAD (lb-ft.):	55	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	290	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	295		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	90.0	FULL LOAD:	78.0
3/4 LOAD:	90.1	3/4 LOAD:	73.7
1/2 LOAD:	88.7	1/2 LOAD:	63.9

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: 9/10/2020

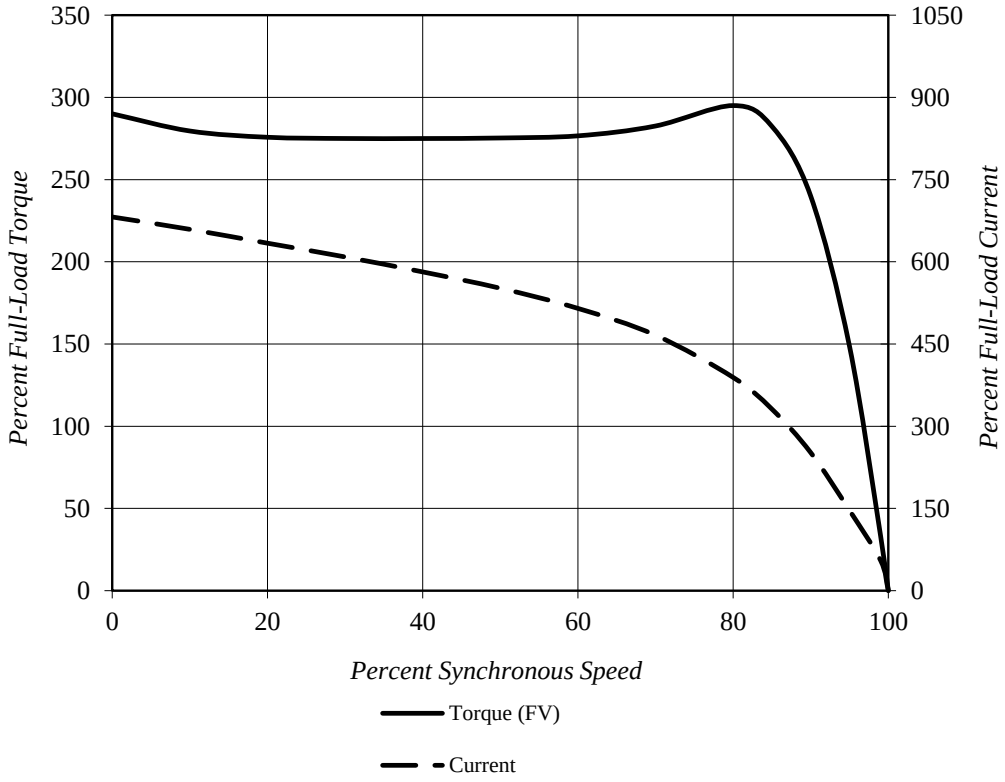
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7KS-PL			***FLAmps:***	15.4
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	965	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW

Locked Rotor Amps:	105 A	***Load Type:***	N/A
Locked Rotor Torque:	290%	***Starting at:***	N/A
Breakdown Torque:	295%	***Accel. Time:***	N/A
Rated Torque:	55 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

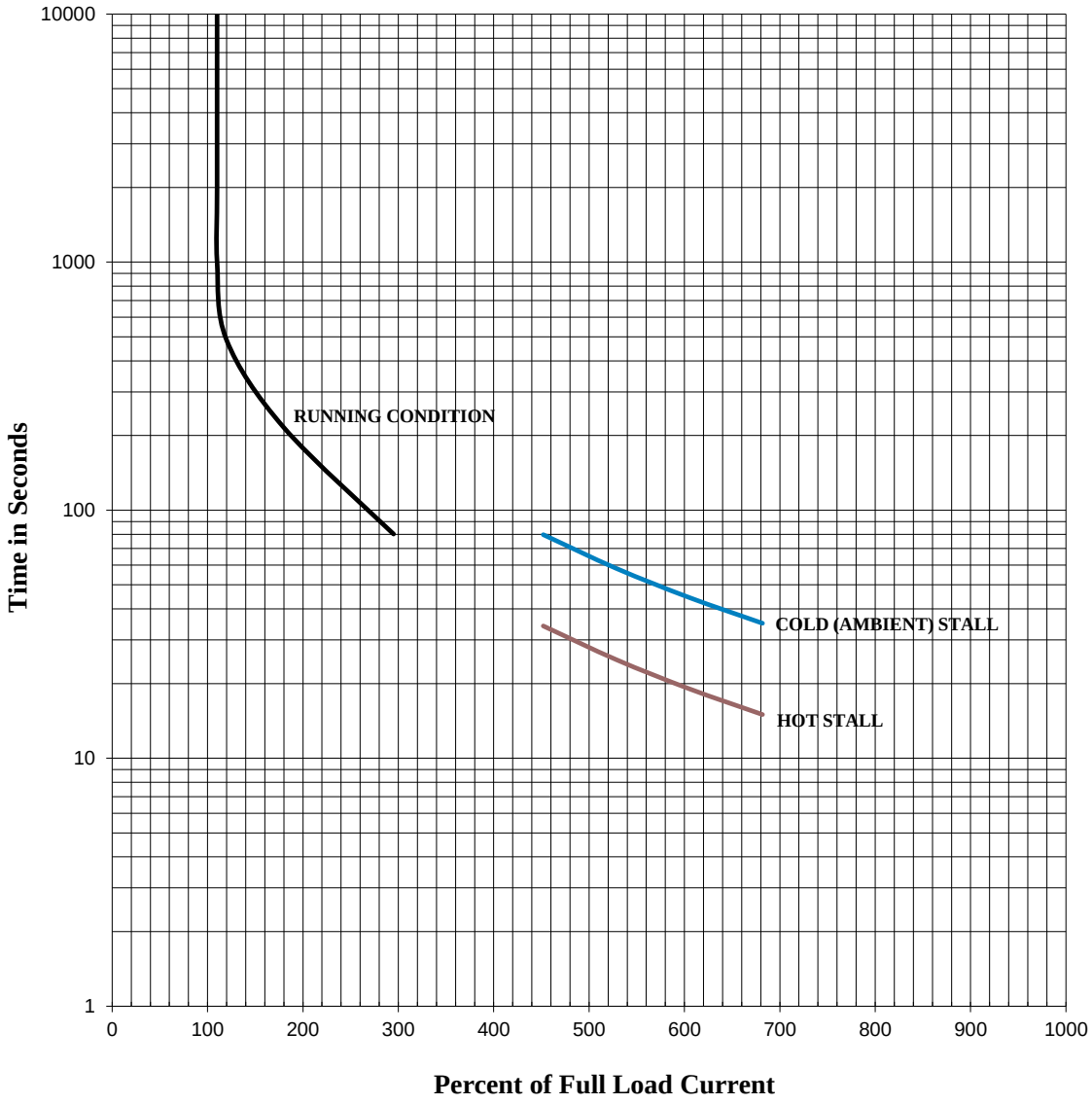
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7KS-PL			***FLAmps:***	15.4
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	965	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

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

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
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:	1000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	14.9	FLRPM:	970
FORM:	FBKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	Y756SDMW7KS-PL			kW:	7.5		
NOM. EFF.:	89.1	MIN. EFF.:	-	cosØ	0.77		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	109	FULL LOAD (lb-ft.):	55	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	315	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	315		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	90.6	FULL LOAD:	77.5
3/4 LOAD:	90.5	3/4 LOAD:	72.2
1/2 LOAD:	88.8	1/2 LOAD:	61.4

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: 9/10/2020

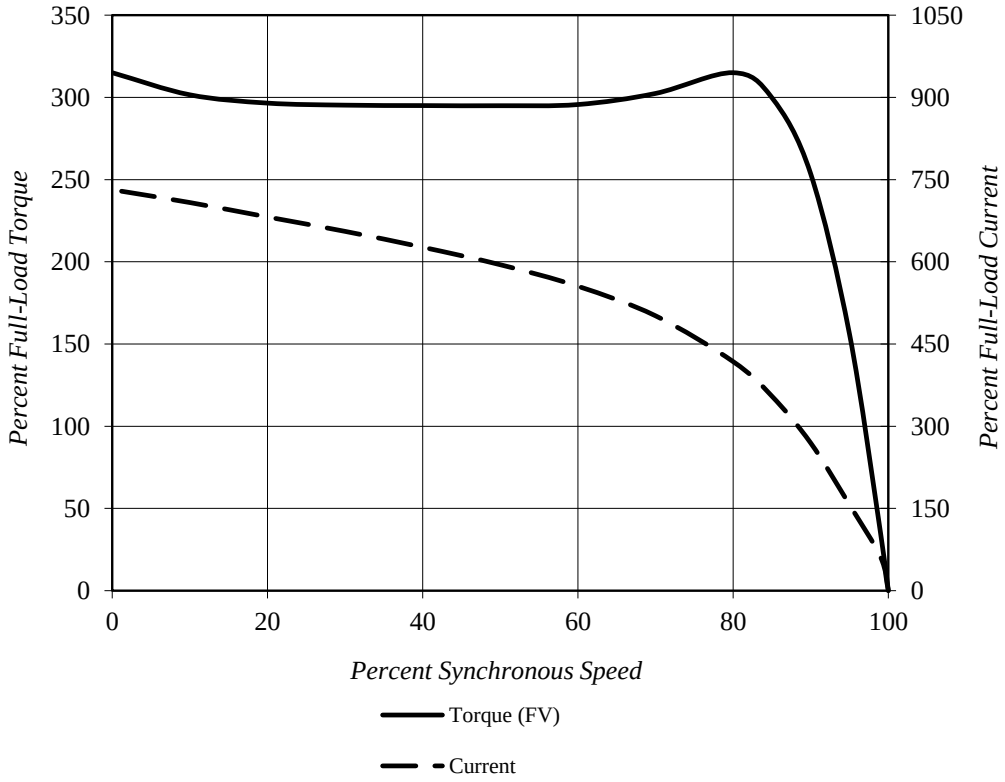
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7KS-PL			***FLAmps:***	14.9
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	970	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW

Locked Rotor Amps:	109 A	***Load Type:***	N/A
Locked Rotor Torque:	315%	***Starting at:***	N/A
Breakdown Torque:	315%	***Accel. Time:***	N/A
Rated Torque:	55 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

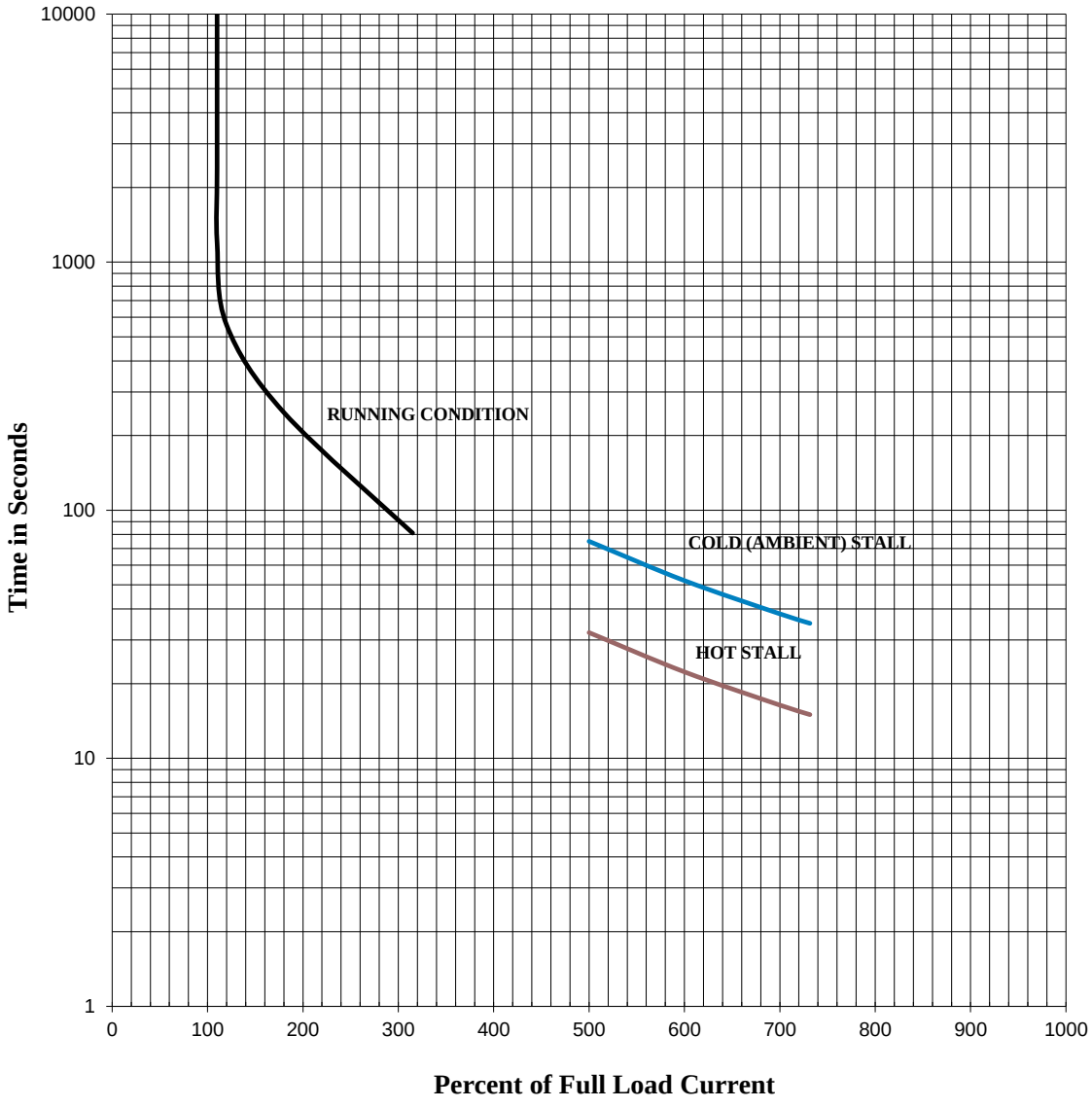
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7KS-PL			***FLAmps:***	14.9
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	970	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

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:	160M	ENCL:	TEFC	FLAMPS:	15.9	FLRPM:	965
FORM:	FBKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	Y756SDMW7KS-PL			kW:	7.5		
NOM. EFF.:	89.1	MIN. EFF.:	-	cosØ	0.80		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	98	FULL LOAD (lb-ft.):	55	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	250	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	270		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	89.5	FULL LOAD:	80.1
3/4 LOAD:	89.9	3/4 LOAD:	76.5
1/2 LOAD:	89.0	1/2 LOAD:	67.8

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: 9/10/2020

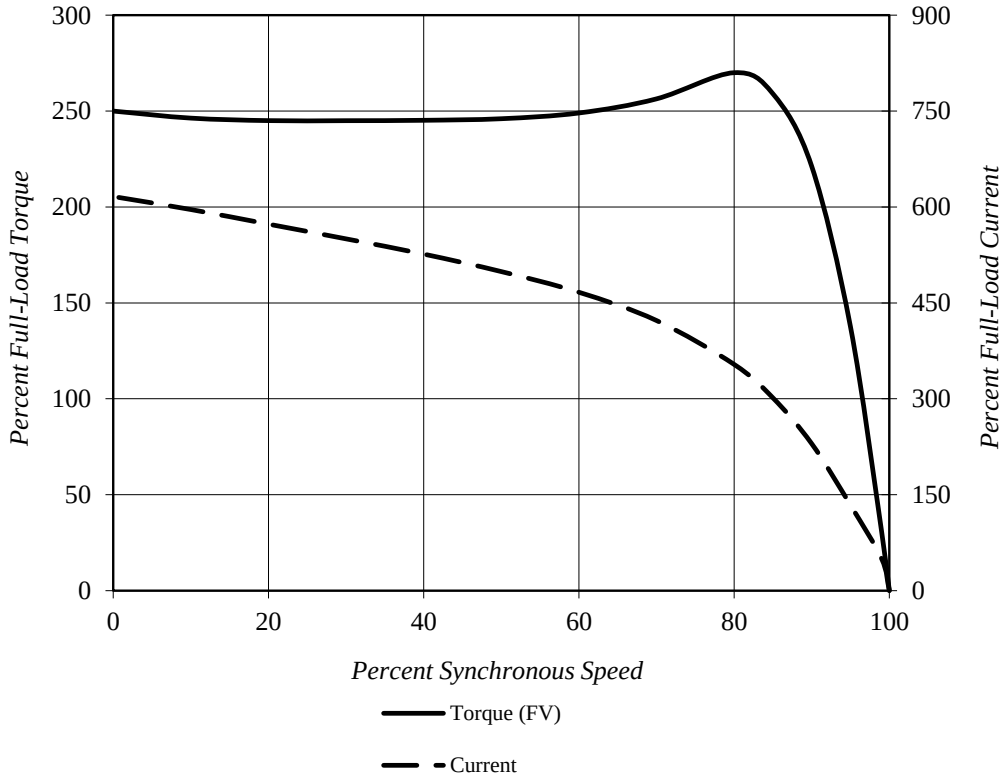
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7KS-PL			***FLAmps:***	15.9
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	965	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW

Locked Rotor Amps:	98 A	***Load Type:***	N/A
Locked Rotor Torque:	250%	***Starting at:***	N/A
Breakdown Torque:	270%	***Accel. Time:***	N/A
Rated Torque:	55 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

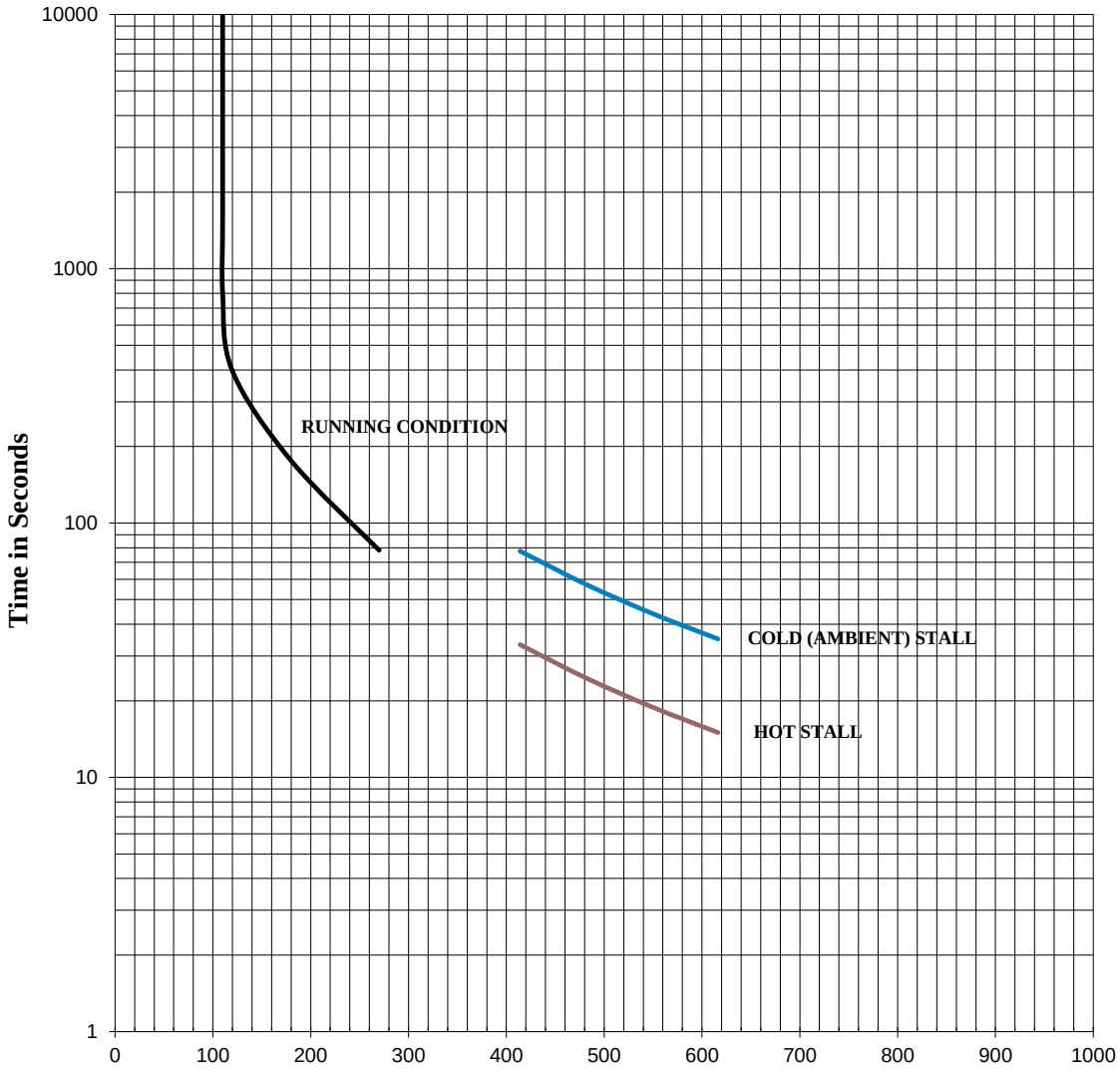
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7KS-PL			***FLAmps:***	15.9
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	7.5	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	965	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

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

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	7/31/13
SUPERSEDES	11/8/96
REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	10	VOLTS:	460	3 PH /	60 Hz	S. RPM:	1200
FRAME:	160M	ENCL:	TEFC	FLAMPS:	13.5	FLRPM:	1170
FORM:	FBKL1	S.F.:	1.15	NEMA DESIGN:	A	INSUL CLASS:	F
TYPE:	IKKH	AMB.:	40°C	CODE:	K	DUTY:	Cont.
MODEL No.:	Y756SDMW7KS-PL			kW:	7.5		
NOM. EFF.:	91.0	MIN. EFF.:	-	P.F.:	76.0		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	106	FULL LOAD (lb-ft.):	45	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	335	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	310		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.4	FULL LOAD:	76.3
3/4 LOAD:	91.0	3/4 LOAD:	71.2
1/2 LOAD:	89.0	1/2 LOAD:	60.7

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: 9/10/2020

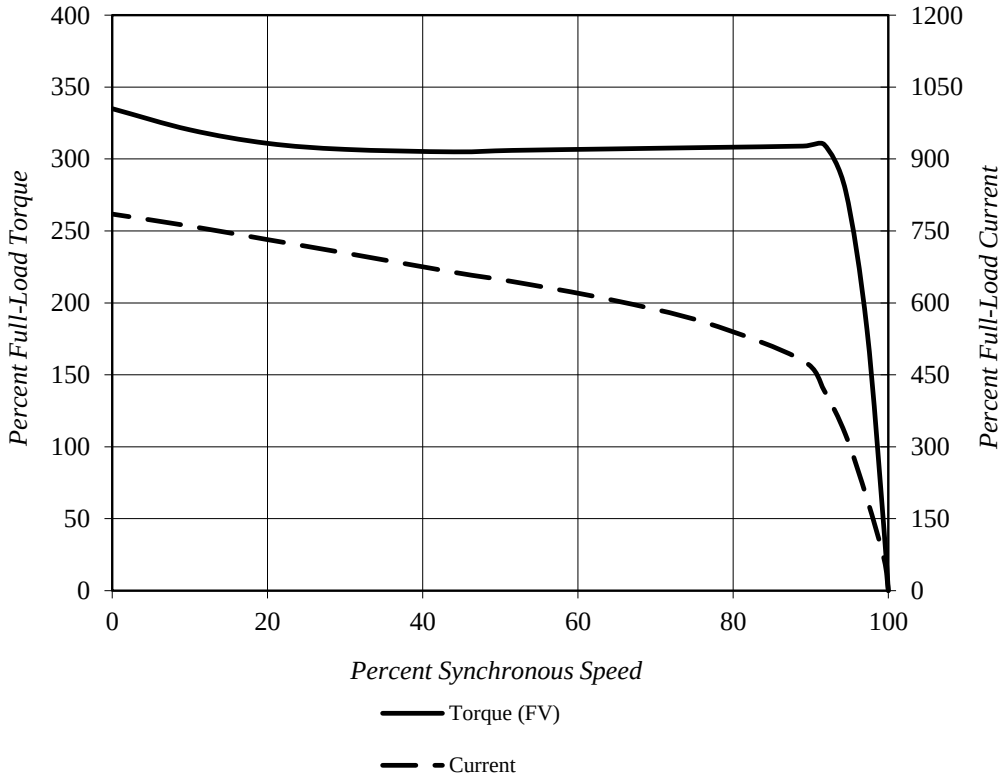
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	Y756SDMW7KS-PL			***FLAmps:***	13.5
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	10	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	1170	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW

Locked Rotor Amps:	106 A	***Load Type:***	N/A
Locked Rotor Torque:	335%	***Starting at:***	N/A
Breakdown Torque:	310%	***Accel. Time:***	N/A
Rated Torque:	45 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

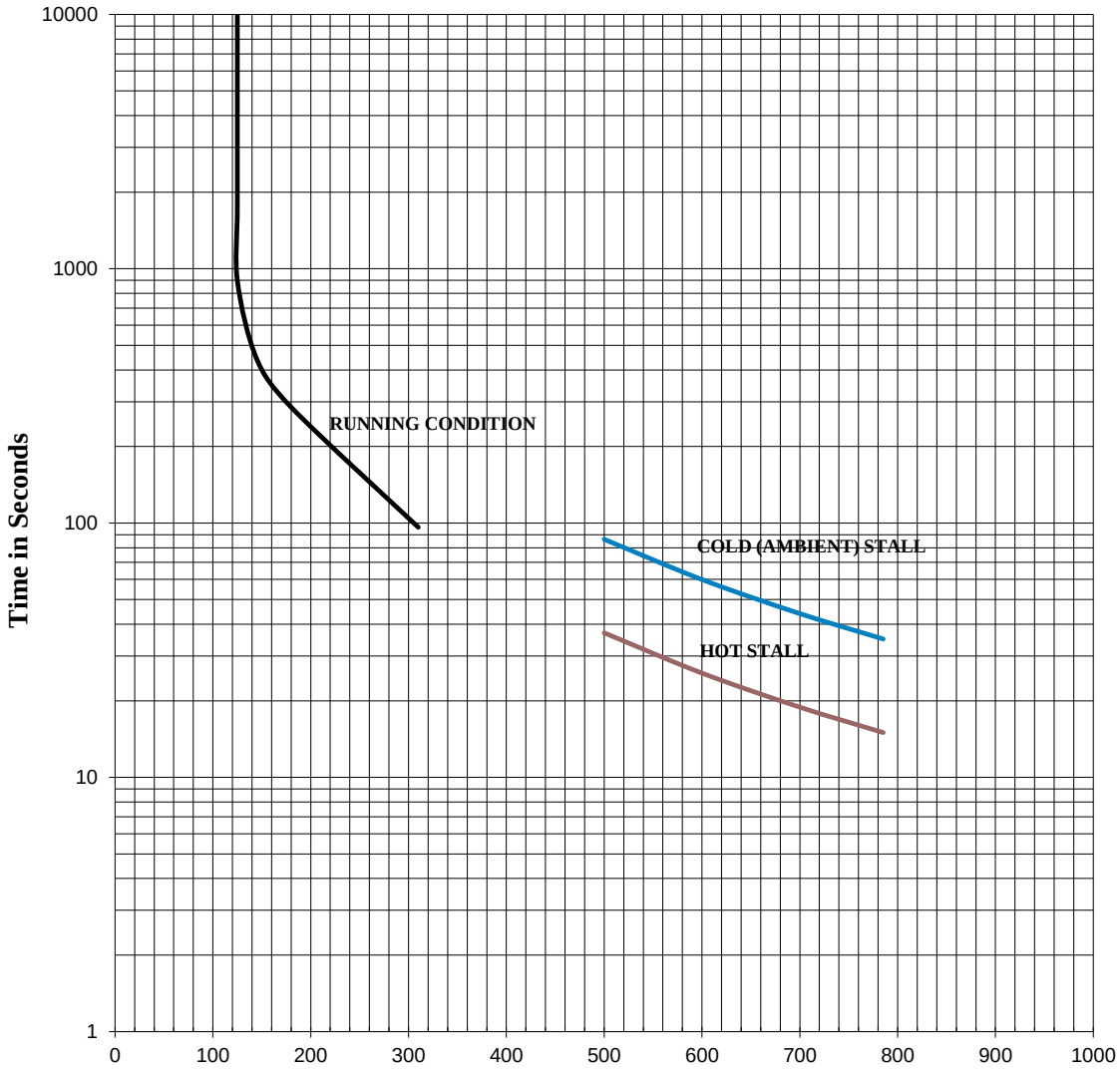
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	Y756SDMW7KS-PL			***FLAmps:***	13.5
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	6	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	10	***Rotor Inertia:***	2.9 lb-ft²	***Date:***	9/10/2020
FLRPM:	1170	***Load Inertia:***	N/A	***File:***	GH6Y75 (7.5kW



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW

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