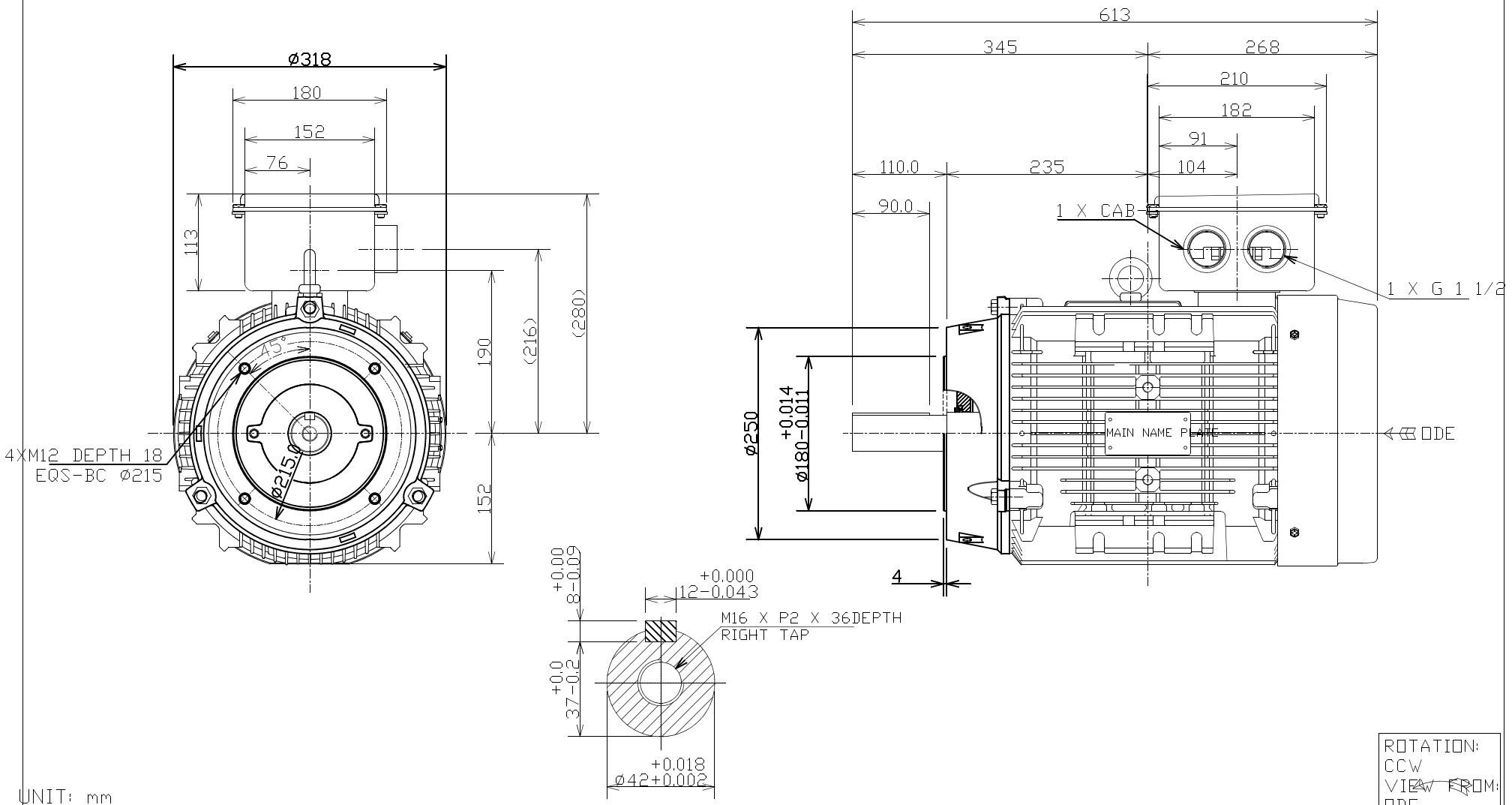

UNIT: mm

ROTATION:
CCW
VIEW FROM:
ODE

B14-FLANGE MOTOR
OL DRAWING IEC GLOBAL

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

3HFN000320

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

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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:	400	3 PH /	50 Hz	S. RPM:	1500
FRAME:	160L	ENCL:	TEFC	FLAMPS:	29	FLRPM:	1470
FORM:	FBKL1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0154SDMW7KS-PL			kW:	15		
NOM. EFF.:	92.1	MIN. EFF.:	-	cosØ	0.80		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	245	FULL LOAD (lb-ft.):	72	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	330	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	375		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	92.3	FULL LOAD:	80.1
3/4 LOAD:	91.9	3/4 LOAD:	75.4
1/2 LOAD:	90.2	1/2 LOAD:	65.4

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

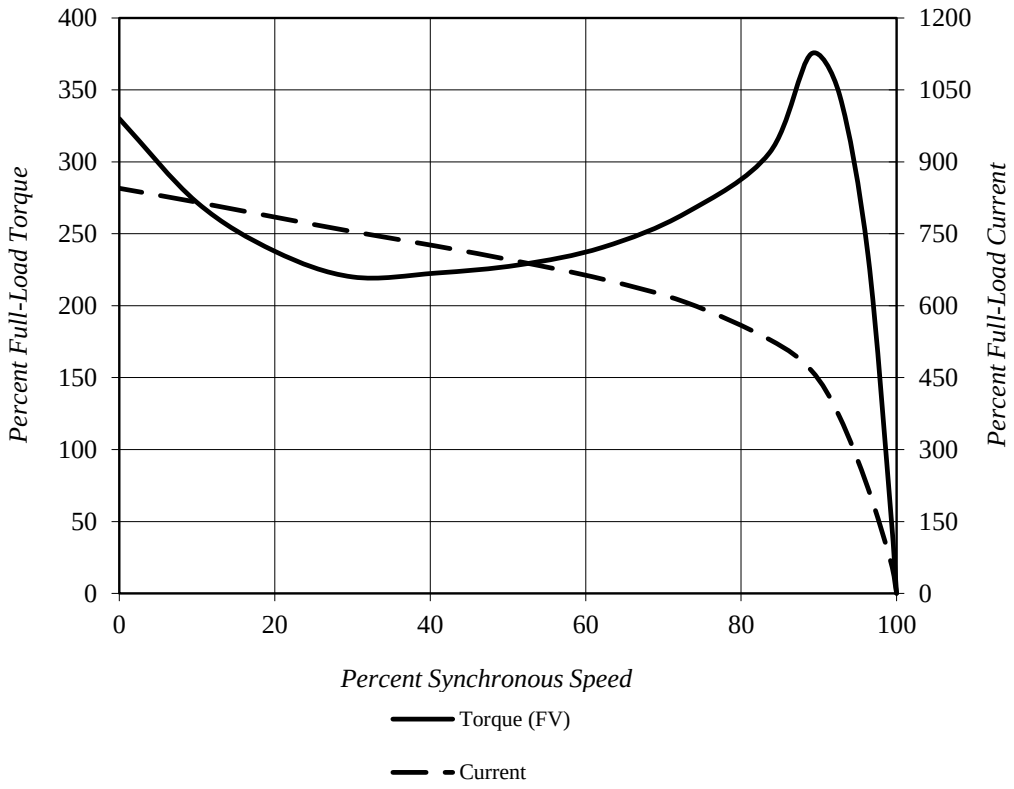
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7KS-PL			***FLAmps:***	29
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1470	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)

Locked Rotor Amps:	245 A	***Load Type:***	N/A
Locked Rotor Torque:	330%	***Starting at:***	N/A
Breakdown Torque:	375%	***Accel. Time:***	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

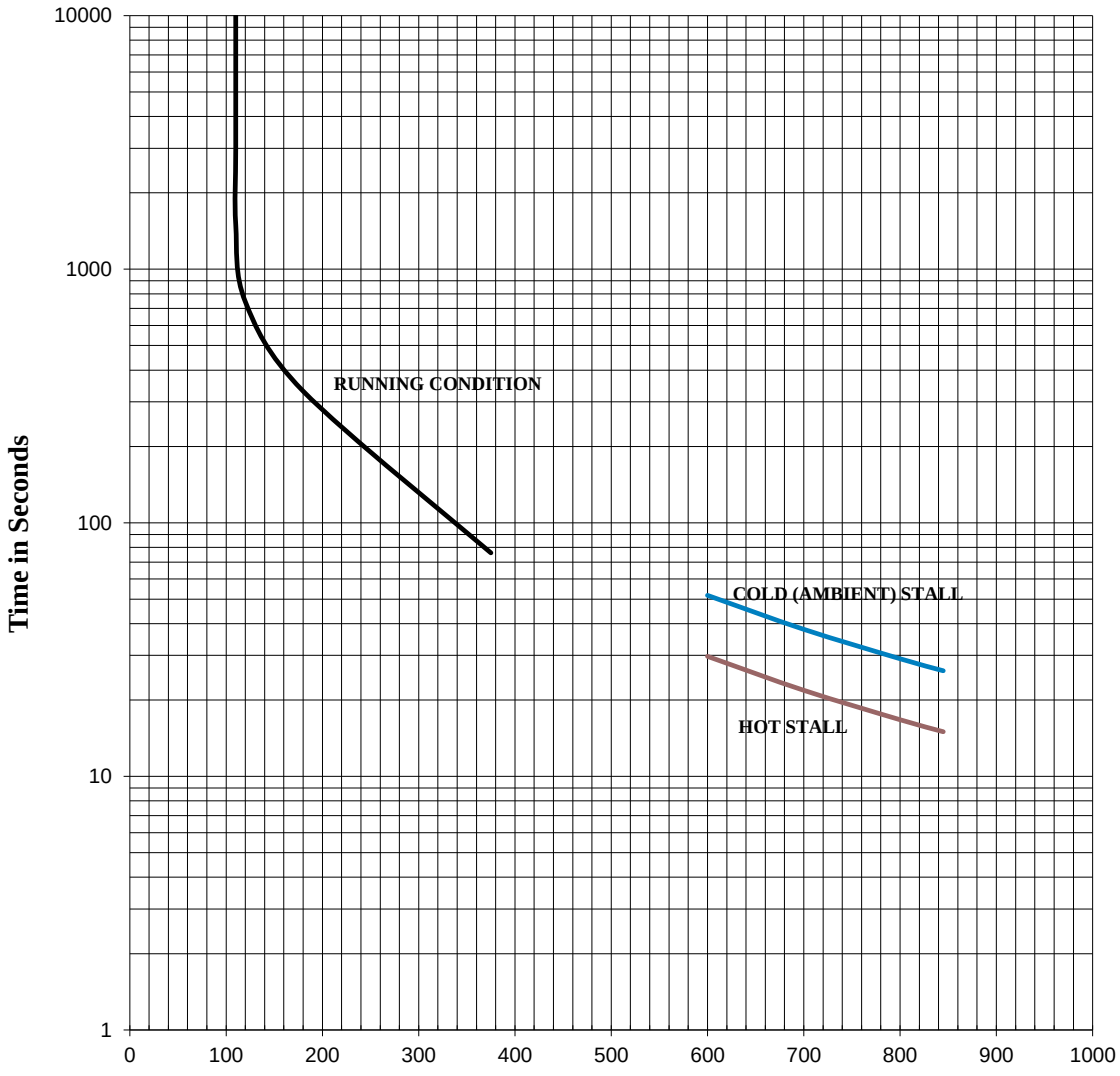
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7KS-PL			***FLAmps:***	29
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1470	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

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

TOSHIBA INTERNATIONAL CORPORATION
Industrial Division / Houston Motor Plant

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SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	415	3 PH /	50 Hz	S. RPM:	1500
FRAME:	160L	ENCL:	TEFC	FLAMPS:	29	FLRPM:	1470
FORM:	FBKL1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0154SDMW7KS-PL			kW:	15		
NOM. EFF.:	92.1	MIN. EFF.:	-	cosØ	0.78		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	256	FULL LOAD (lb-ft.):	72	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	380	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	395		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	92.4	FULL LOAD:	78.5
3/4 LOAD:	91.8	3/4 LOAD:	72.8
1/2 LOAD:	89.9	1/2 LOAD:	61.5

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: 10/18/2019

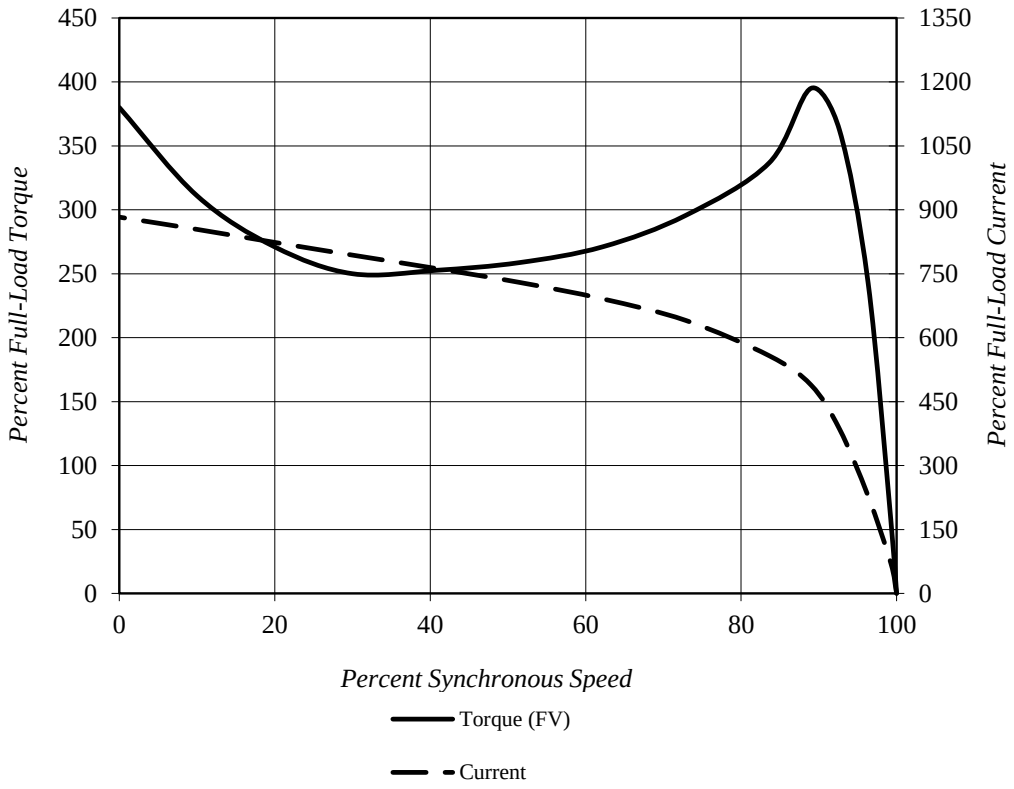
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7KS-PL			***FLAmps:***	29
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1470	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)

Locked Rotor Amps:	256 A	***Load Type:***	N/A
Locked Rotor Torque:	380%	***Starting at:***	N/A
Breakdown Torque:	395%	***Accel. Time:***	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

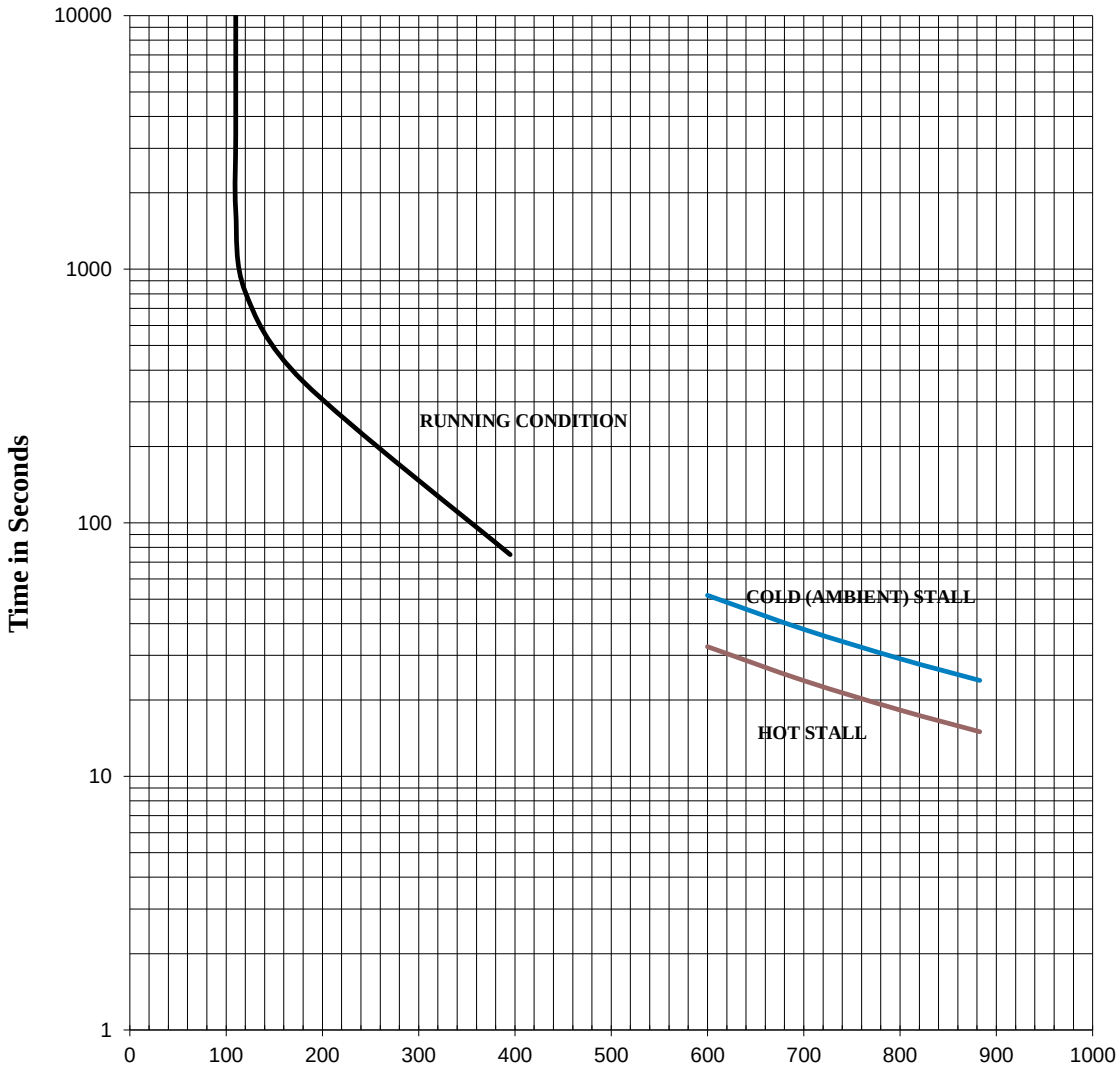
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7KS-PL			***FLAmps:***	29
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1470	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

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

TOSHIBA INTERNATIONAL CORPORATION
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SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	-	VOLTS:	380	3 PH /	50 Hz	S. RPM:	1500
FRAME:	160L	ENCL:	TEFC	FLAMPS:	30	FLRPM:	1465
FORM:	FBKL1	S.F.:	-	IEC DESIGN	NE	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0154SDMW7KS-PL			kW:	15		
NOM. EFF.:	92.1	MIN. EFF.:	-	cosØ	0.82		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	231	FULL LOAD (lb-ft.):	72	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	310	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	340		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.8	FULL LOAD:	82.9
3/4 LOAD:	91.6	3/4 LOAD:	79.3
1/2 LOAD:	90.2	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: 10/18/2019

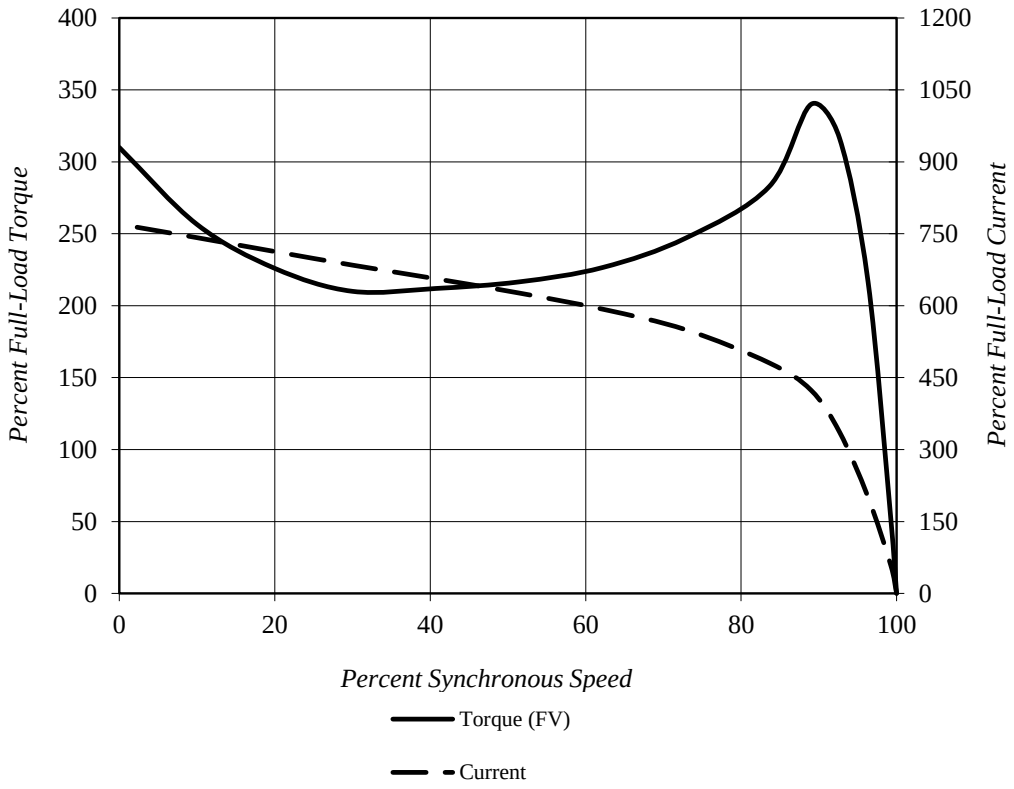
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7KS-PL			***FLAmps:***	30
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1465	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)

Locked Rotor Amps:	231 A	***Load Type:***	N/A
Locked Rotor Torque:	310%	***Starting at:***	N/A
Breakdown Torque:	340%	***Accel. Time:***	N/A
Rated Torque:	72 lb-ft		

Design Values



Comments: PROJECT - ***D.E.Curve #:*** GH4015 (15kW)

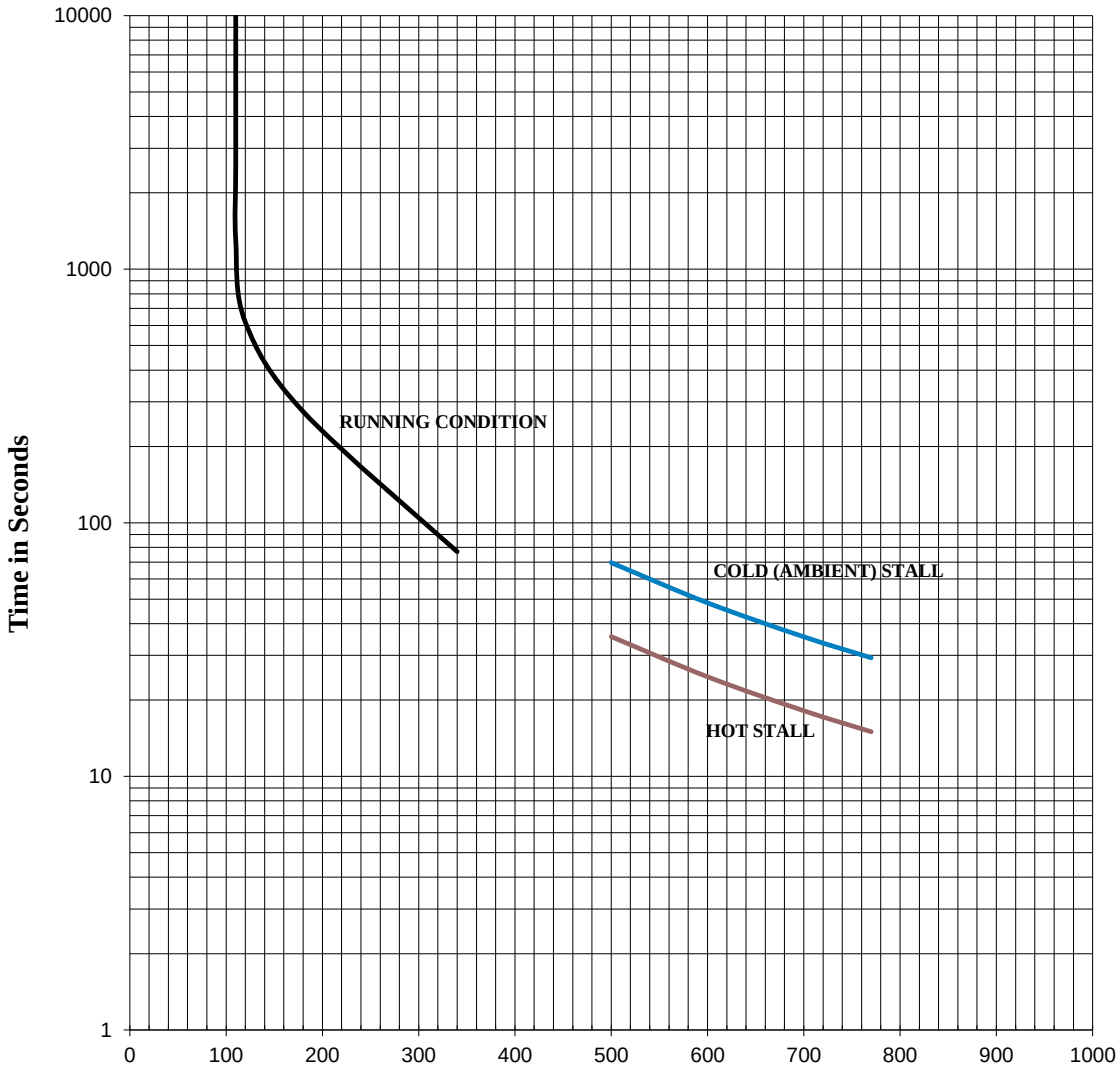
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7KS-PL			***FLAmps:***	30
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1465	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

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

TOSHIBA INTERNATIONAL CORPORATION
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SQUIRREL CAGE INDUCTION MOTOR PERFORMANCE SPECIFICATIONS

CUSTOMER: -
TIC SR No.: -

MOTOR NAMEPLATE DATA

H.P.:	20	VOLTS:	460	3 PH /	60 Hz	S. RPM:	1800
FRAME:	160L	ENCL:	TEFC	FLAMPS:	26	FLRPM:	1775
FORM:	FBKL1	S.F.:	1.15	NEMA DESIGN:	A	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	L	DUTY:	Cont.
MODEL No.:	0154SDMW7KS-PL			kW:	15		
NOM. EFF.:	93.0	MIN. EFF.:	-	P.F.:	79.0		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	242	FULL LOAD (lb-ft.):	59	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	405	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	405		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	93.0	FULL LOAD:	79.4
3/4 LOAD:	92.2	3/4 LOAD:	74.4
1/2 LOAD:	90.0	1/2 LOAD:	64.1

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: 10/18/2019

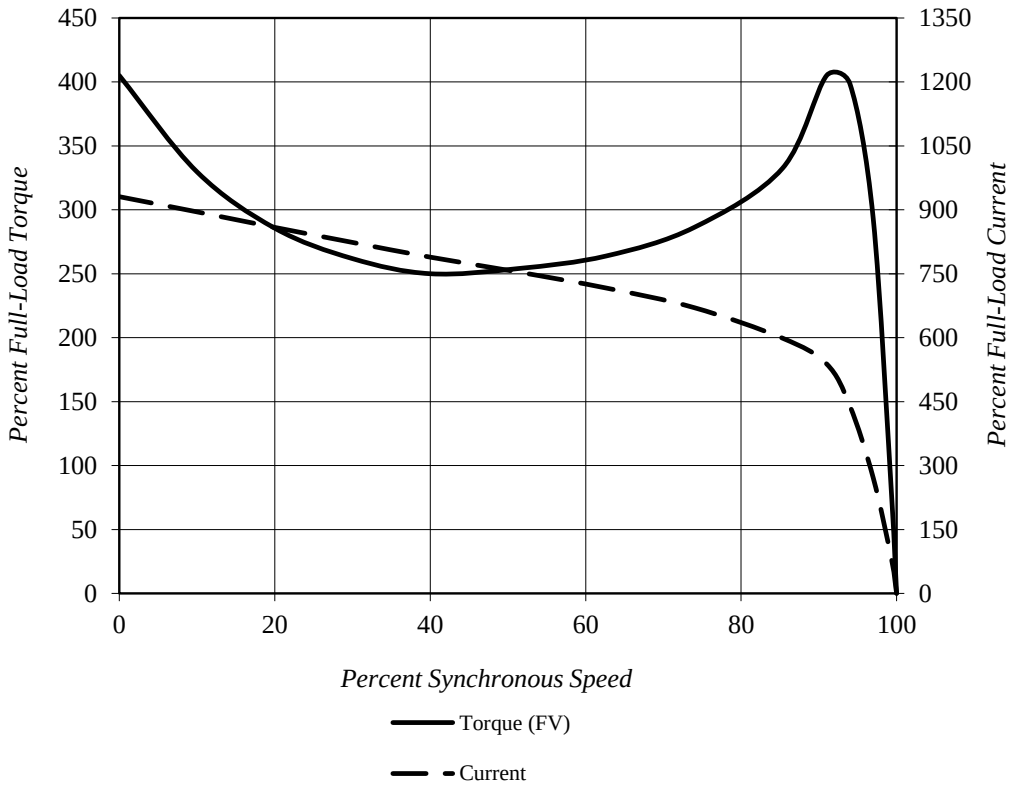
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0154SDMW7KS-PL			***FLAmps:***	26
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	20	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1775	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)

Locked Rotor Amps:	242 A	***Load Type:***	N/A
Locked Rotor Torque:	405%	***Starting at:***	N/A
Breakdown Torque:	405%	***Accel. Time:***	N/A
Rated Torque:	59 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

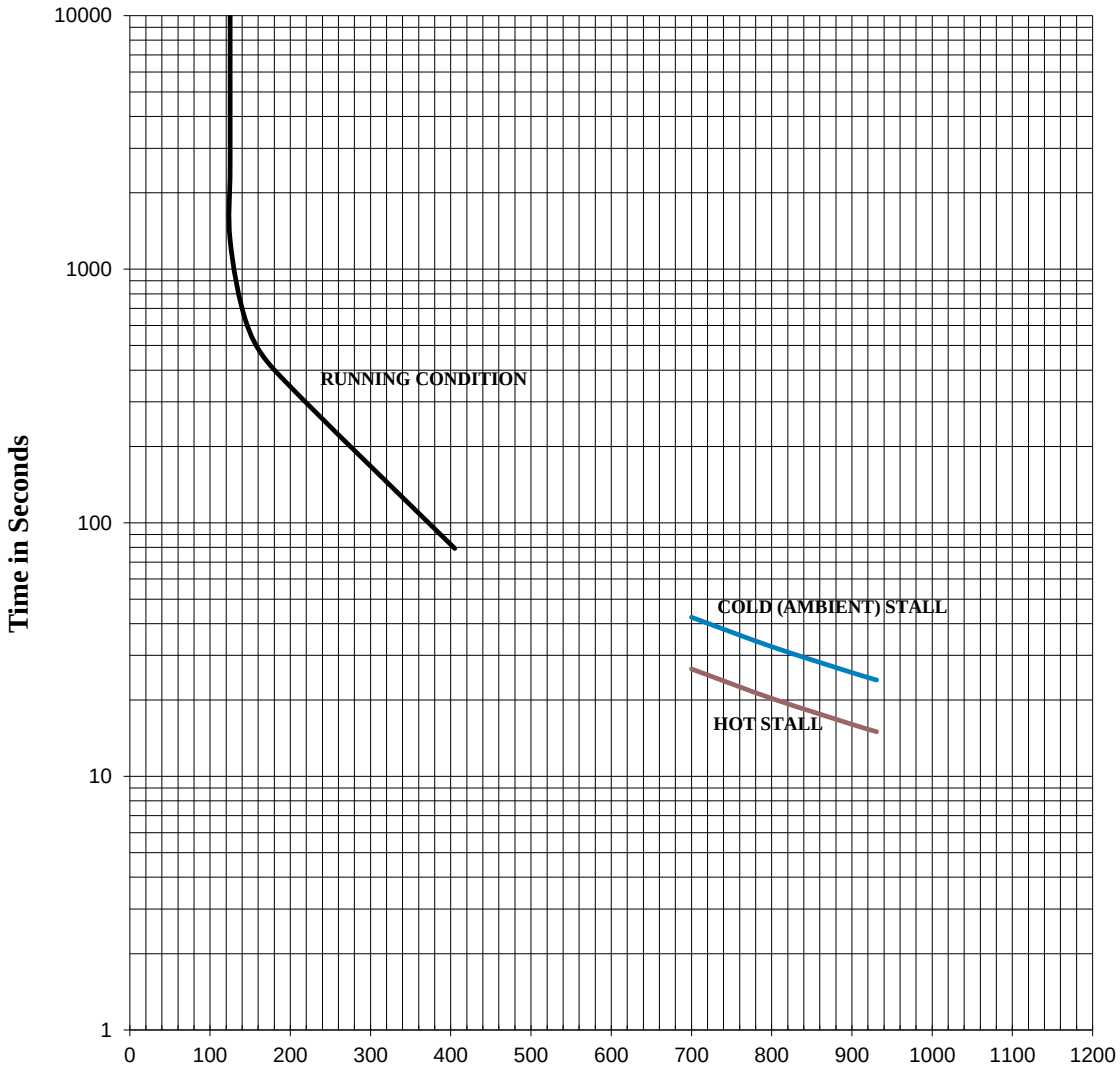
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0154SDMW7KS-PL			***FLAmps:***	26
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160L
Pole:	4	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	20	***Rotor Inertia:***	3.1 lb-ft²	***Date:***	10/18/2019
FLRPM:	1775	***Load Inertia:***	N/A	***File:***	GH4015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH4015 (15kW)

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