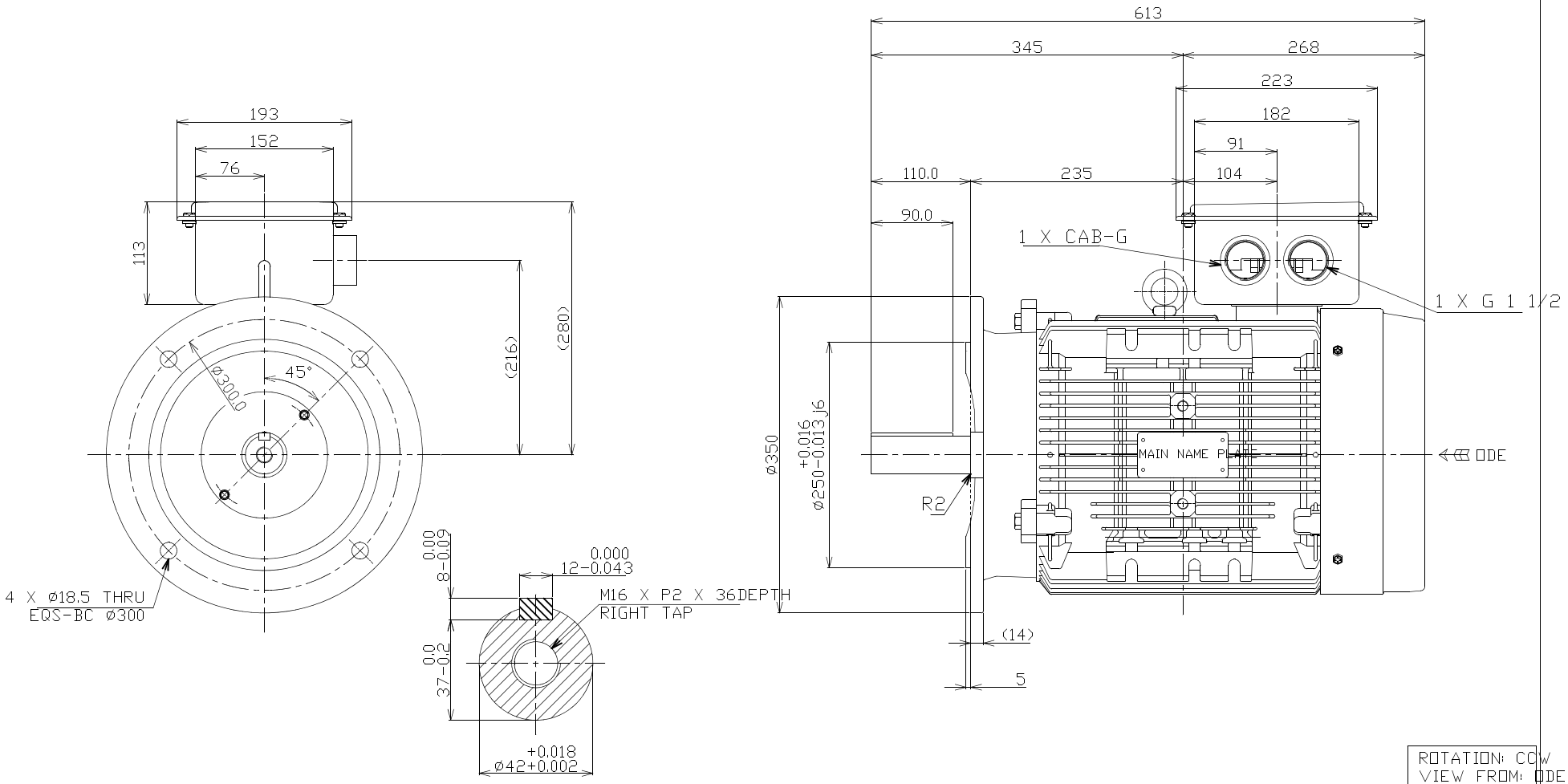

ROTATION: CCW
VIEW FROM: DE

UNIT: mm

B5-FLANGE MOTOR
OL DRAWING IEC GLOBAL

TYPE: 2-4-6P - 400V

FRAME: 160M

3HFN000246

TOSHIBA
TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

X.	±2.0
X.X	±0.5
X.XX	±0.1

MAXIMUM MOTOR WEIGHT
265 lbs.
120 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:	3000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	28	FLRPM:	2935
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0152SDMW7JS-PL			kW:	15		
NOM. EFF.:	91.9	MIN. EFF.:	-	cosØ	0.85		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	214	FULL LOAD (lb-ft.):	36	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	275	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	375		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	92.0	FULL LOAD:	85.6
3/4 LOAD:	91.4	3/4 LOAD:	81.6
1/2 LOAD:	89.4	1/2 LOAD:	72.5

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: 8/5/2020

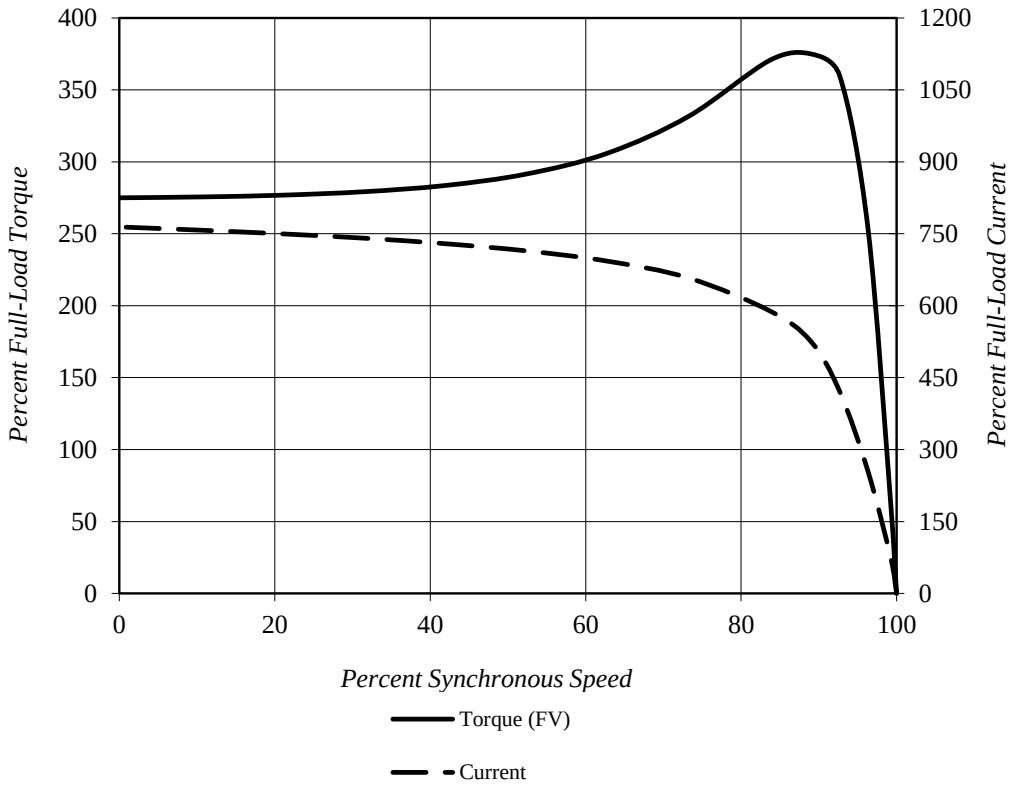
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7JS-PL			***FLAmps:***	28
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2935	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)

Locked Rotor Amps:	214 A	***Load Type:***	N/A
Locked Rotor Torque:	275%	***Starting at:***	N/A
Breakdown Torque:	375%	***Accel. Time:***	N/A
Rated Torque:	36 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

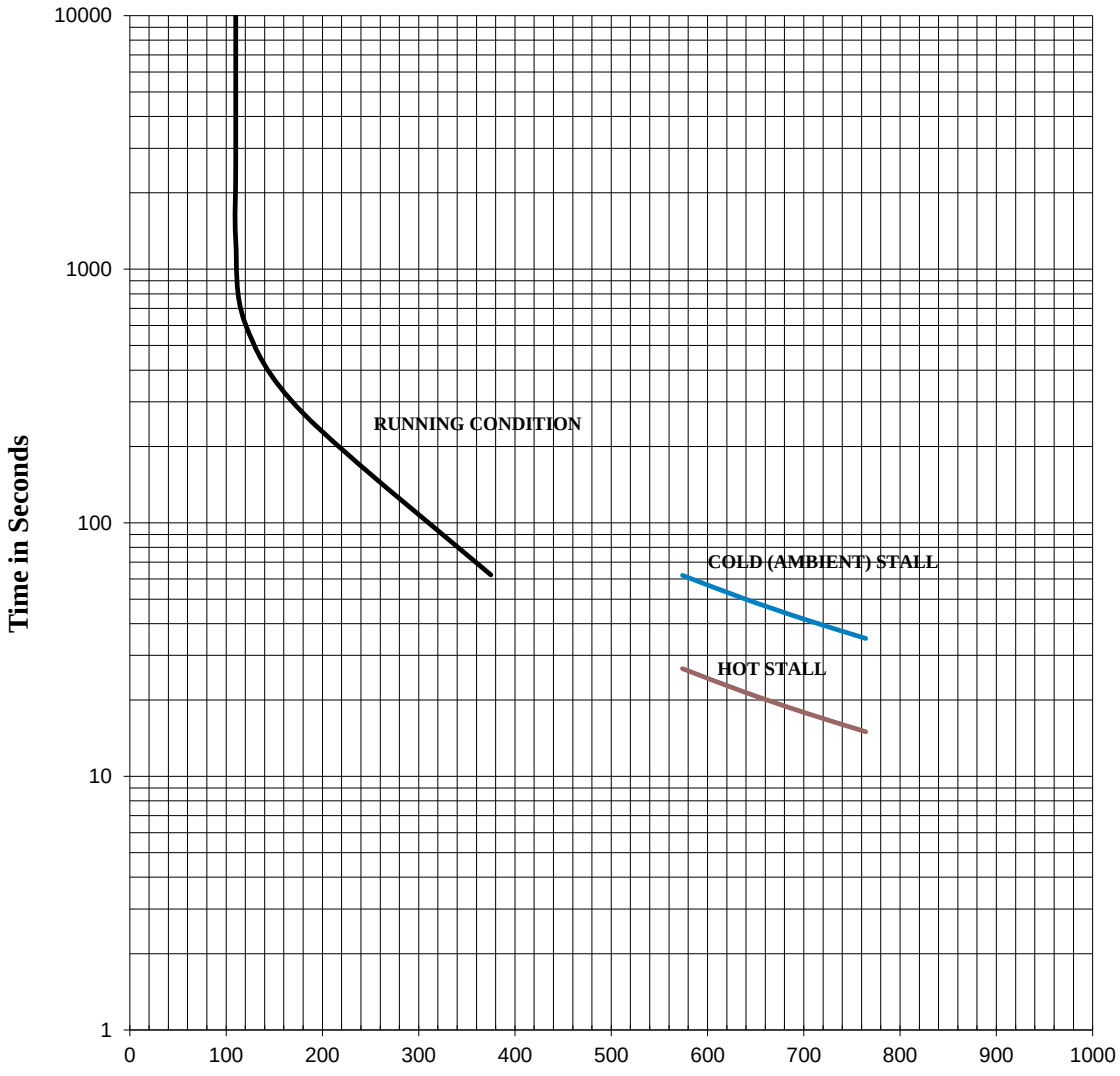
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7JS-PL			***FLAmps:***	28
Enclosure:	TEFC	***Voltage:***	400 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2935	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH2015 (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:	3000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	27	FLRPM:	2940
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0152SDMW7JS-PL			kW:	15		
NOM. EFF.:	91.9	MIN. EFF.:	-	cosØ	0.83		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	223	FULL LOAD (lb-ft.):	36	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	300	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	400		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	92.3	FULL LOAD:	83.4
3/4 LOAD:	91.6	3/4 LOAD:	78.3
1/2 LOAD:	89.3	1/2 LOAD:	67.9

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: 8/5/2020

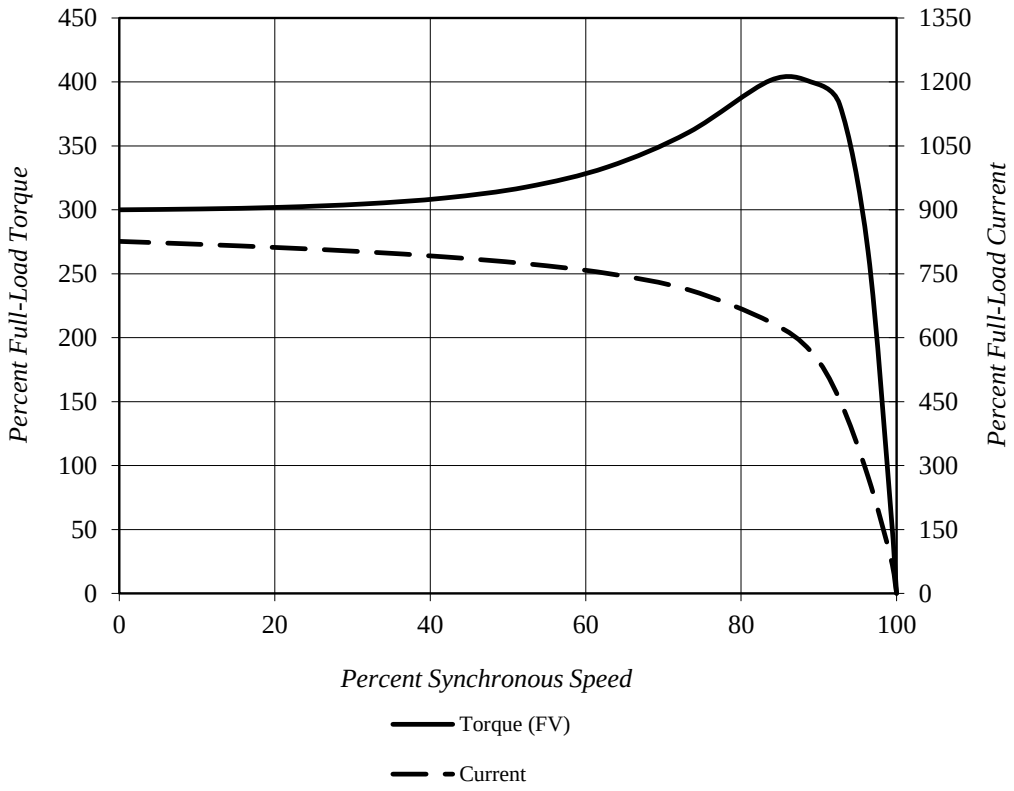
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7JS-PL			***FLAmps:***	27
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2940	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)

Locked Rotor Amps:	223 A	***Load Type:***	N/A
Locked Rotor Torque:	300%	***Starting at:***	N/A
Breakdown Torque:	400%	***Accel. Time:***	N/A
Rated Torque:	36 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

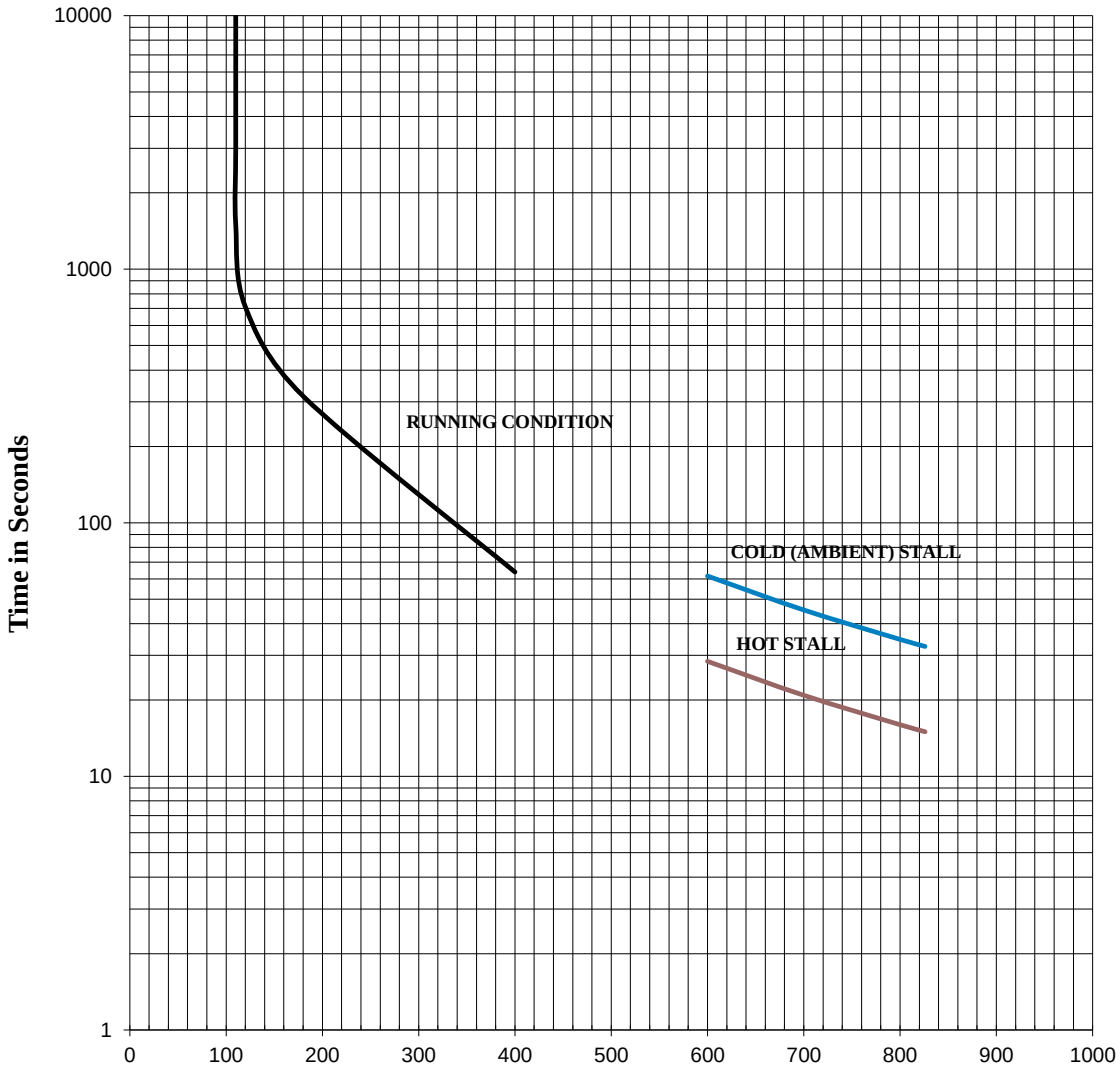
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7JS-PL			***FLAmps:***	27
Enclosure:	TEFC	***Voltage:***	415 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2940	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH2015 (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:	3000
FRAME:	160M	ENCL:	TEFC	FLAMPS:	28	FLRPM:	2930
FORM:	FCKL1	S.F.:	-	IEC DESIGN	N	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	-	DUTY:	Cont.
MODEL No.:	0152SDMW7JS-PL			kW:	15		
NOM. EFF.:	91.9	MIN. EFF.:	-	cosØ	0.87		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	202	FULL LOAD (lb-ft.):	36	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	245	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	340		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.6	FULL LOAD:	87.9
3/4 LOAD:	91.2	3/4 LOAD:	85.2
1/2 LOAD:	89.4	1/2 LOAD:	78.1

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: 8/5/2020

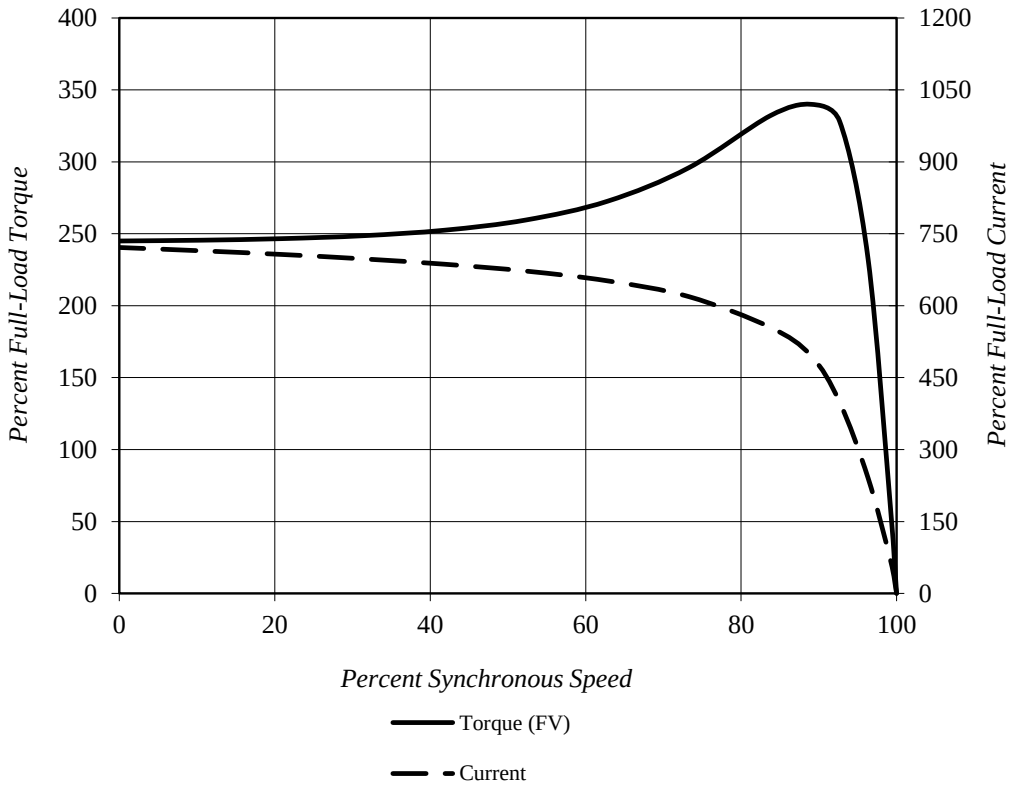
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7JS-PL			***FLAmps:***	28
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2930	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)

Locked Rotor Amps:	202 A	***Load Type:***	N/A
Locked Rotor Torque:	245%	***Starting at:***	N/A
Breakdown Torque:	340%	***Accel. Time:***	N/A
Rated Torque:	36 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

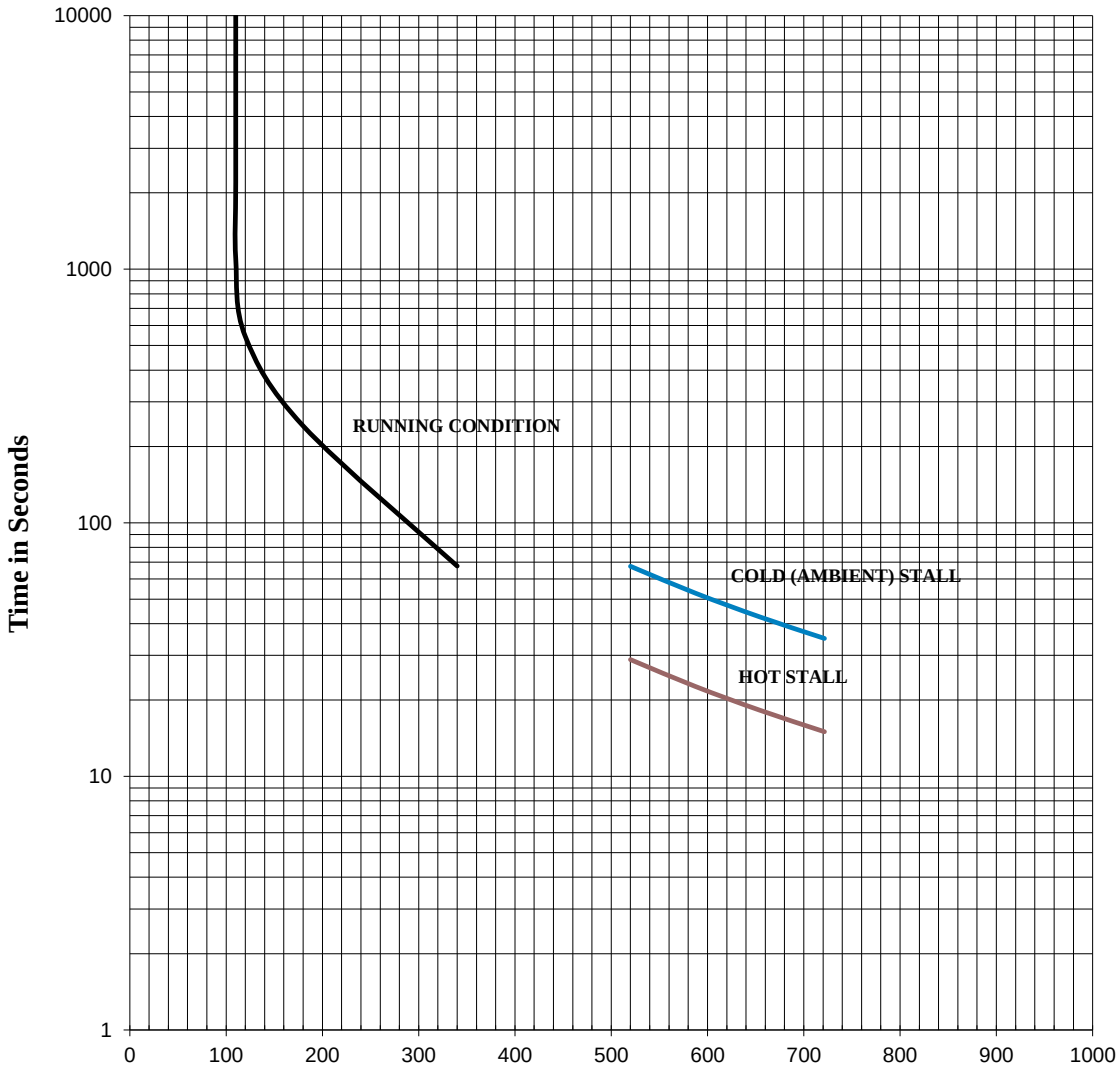
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7JS-PL			***FLAmps:***	28
Enclosure:	TEFC	***Voltage:***	380 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 50 Hz	***Ins. Class:***	F
KW:	15	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	8/5/2020
FLRPM:	2930	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH2015 (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:	3600
FRAME:	160M	ENCL:	TEFC	FLAMPS:	25	FLRPM:	3555
FORM:	FCKL1	S.F.:	1.15	NEMA DESIGN:	A	INSUL CLASS:	F
TYPE:	TKKH	AMB.:	40°C	CODE:	K	DUTY:	Cont.
MODEL No.:	0152SDMW7JS-PL			kW:	15		
NOM. EFF.:	91.0	MIN. EFF.:	-	P.F.:	84.0		

AMPERAGE		**TORQUES**		****BEARINGS:**	
LOCKED ROTOR:	207	FULL LOAD (lb-ft.):	30	DRIVE END:	REFER TO NP
		LOCKED ROTOR (%):	310	OPPOSITE DRIVE END:	REFER TO NP
		BREAK DOWN (%):	420		

EFFICIENCY		**POWER FACTOR**	
FULL LOAD:	91.0	FULL LOAD:	84.2
3/4 LOAD:	90.1	3/4 LOAD:	80.1
1/2 LOAD:	87.6	1/2 LOAD:	71.1

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: 1/8/2020

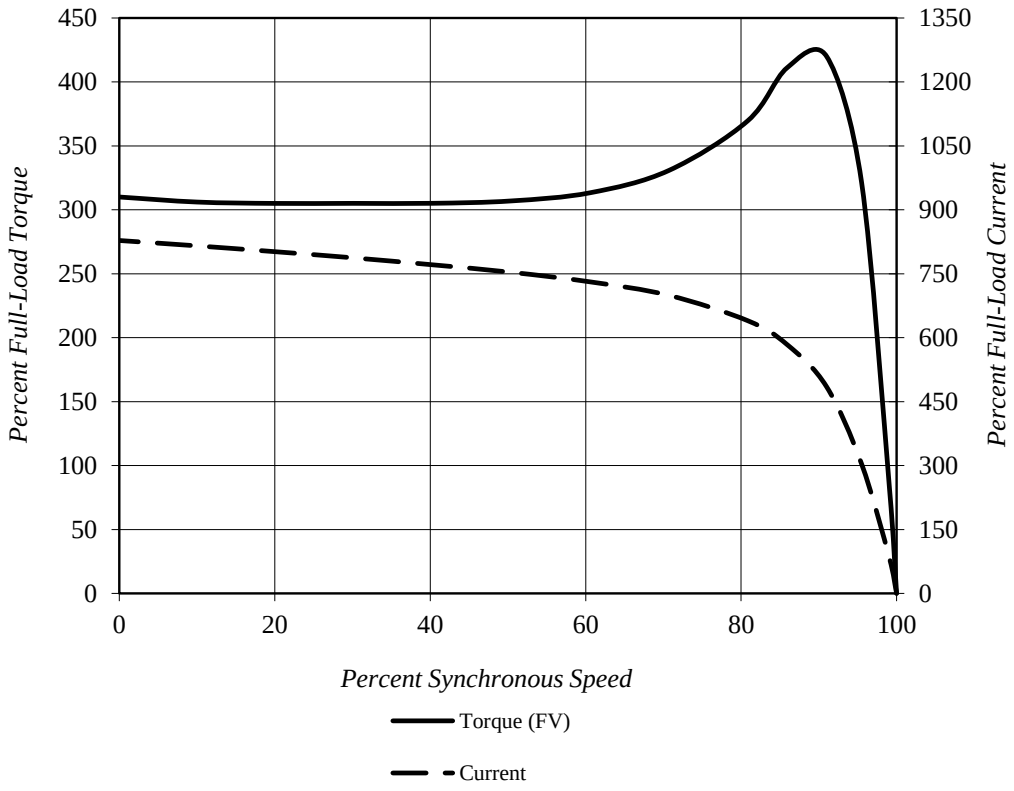
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0152SDMW7JS-PL			***FLAmps:***	25
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	20	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	1/8/2020
FLRPM:	3555	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)

Locked Rotor Amps:	207 A	***Load Type:***	N/A
Locked Rotor Torque:	310%	***Starting at:***	N/A
Breakdown Torque:	420%	***Accel. Time:***	N/A
Rated Torque:	30 lb-ft		

Design Values



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

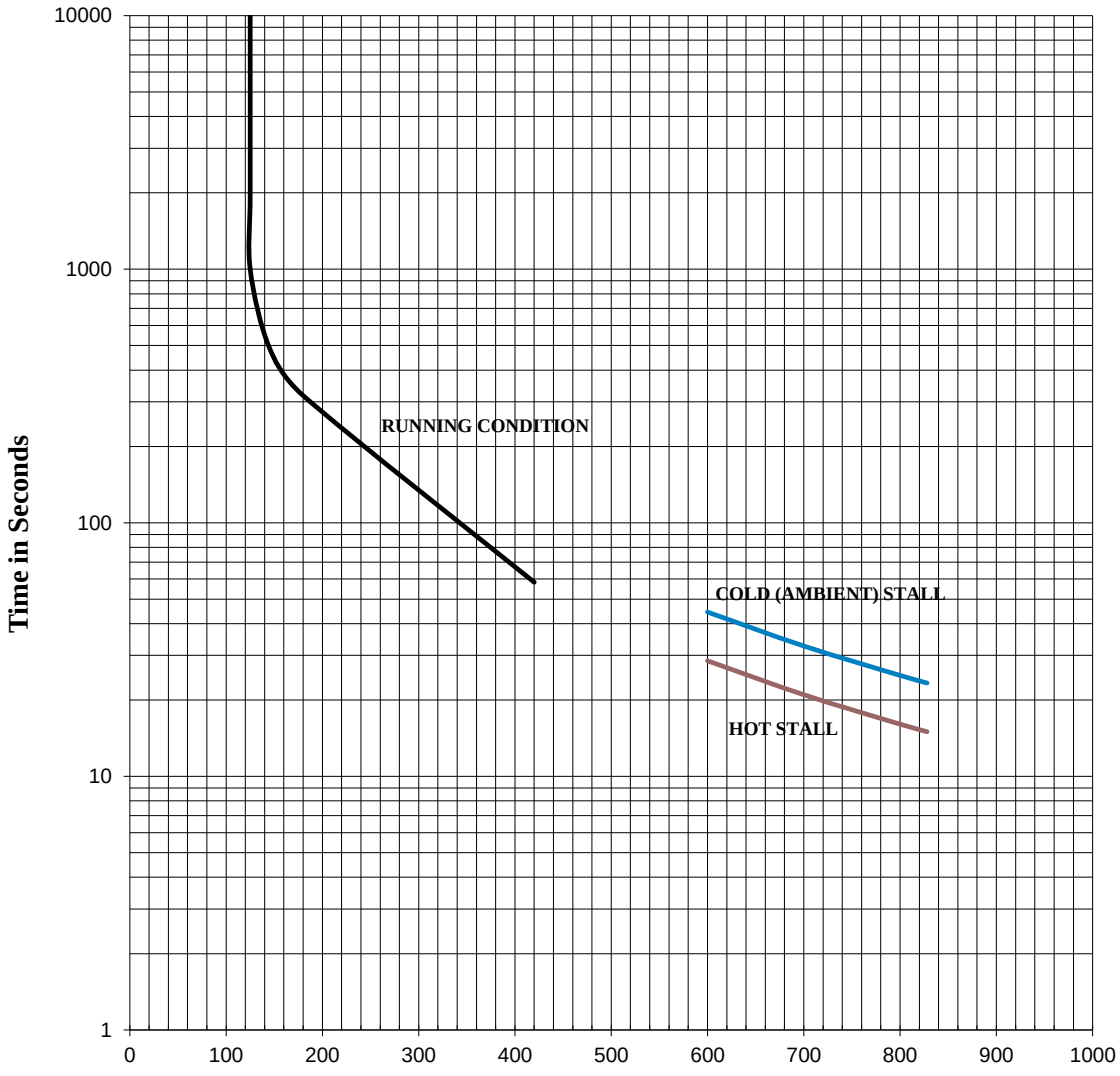
Prepared by: Zichao Xie	***Checked by:***

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

Model #:	0152SDMW7JS-PL			***FLAmps:***	25
Enclosure:	TEFC	***Voltage:***	460 V	***Frame:***	160M
Pole:	2	***Frequency:***	3 PH / 60 Hz	***Ins. Class:***	F
HP:	20	***Rotor Inertia:***	1.5 lb-ft²	***Date:***	1/8/2020
FLRPM:	3555	***Load Inertia:***	N/A	***File:***	GH2015 (15kW)



Comments: PROJECT -

D.E.Curve #: GH2015 (15kW)

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