

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 IDENTIFIED.

B5-FLANGE MOTOR OL DRAWING IEC GLOBAL		TYPE: 2-4-6P 400V FRAME: 180L	TOLERANCES X. $\pm$ 2.0 X.X $\pm$ 0.5 X.XX $\pm$ 0.1						
3HFN000247			MAXIMUM MOTOR WEIGHT - lbs. - kgs.						
<b>TOSHIBA</b> TOSHIBA INTERNATIONAL CORPORATION				01 Change to new design Frame footless NO REVISION	T.Danh DRAWN BY	May-21-18 DATE	B.Quynh CHECK	<b>EQP Global SD</b> <b>XT SERIES</b> DRAWN BY: HIEN, NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE www.toshiba.com/ind	

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	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: 1000
FRAME: 180L	ENCL: TEFC	FLAMPS: 31	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0156SDMW7JS-P		kW: 15	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.77	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 185	FULL LOAD (lb-ft.): 108	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 275	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 295	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.1	FULL LOAD: 77.7
3/4 LOAD: 91.2	3/4 LOAD: 72.3
1/2 LOAD: 90.0	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:** 9/11/2020

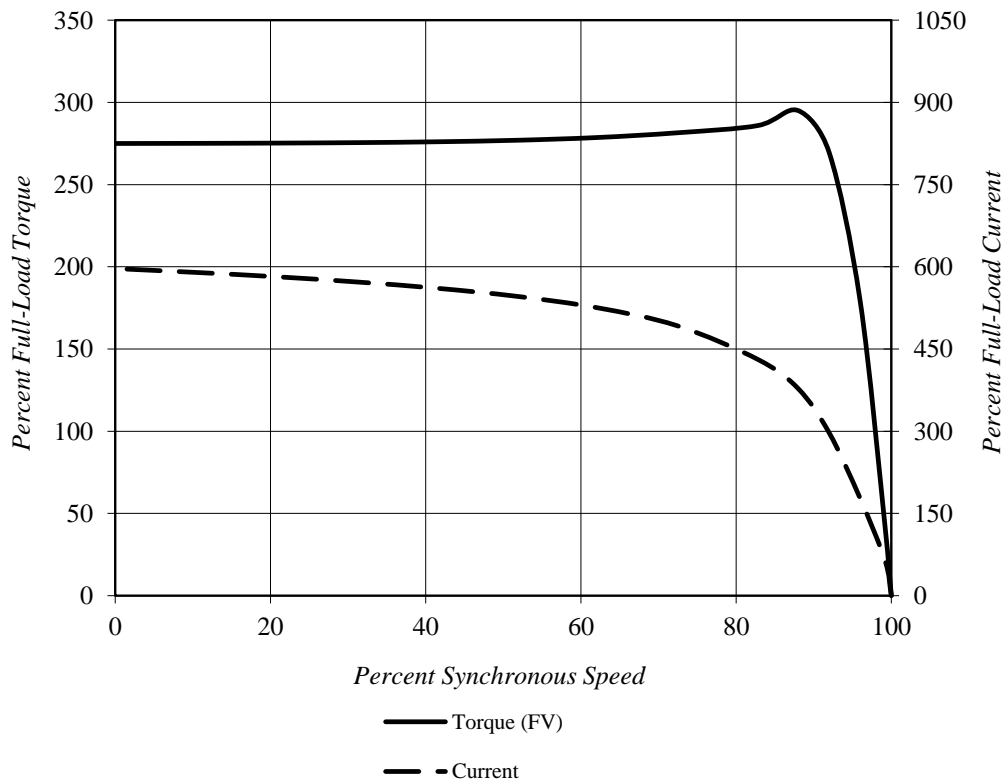
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	31
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)

<b>Locked Rotor Amps:</b>	185 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	275%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	295%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	108 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6015 (15kW)

**Prepared by:** Zichao Xie

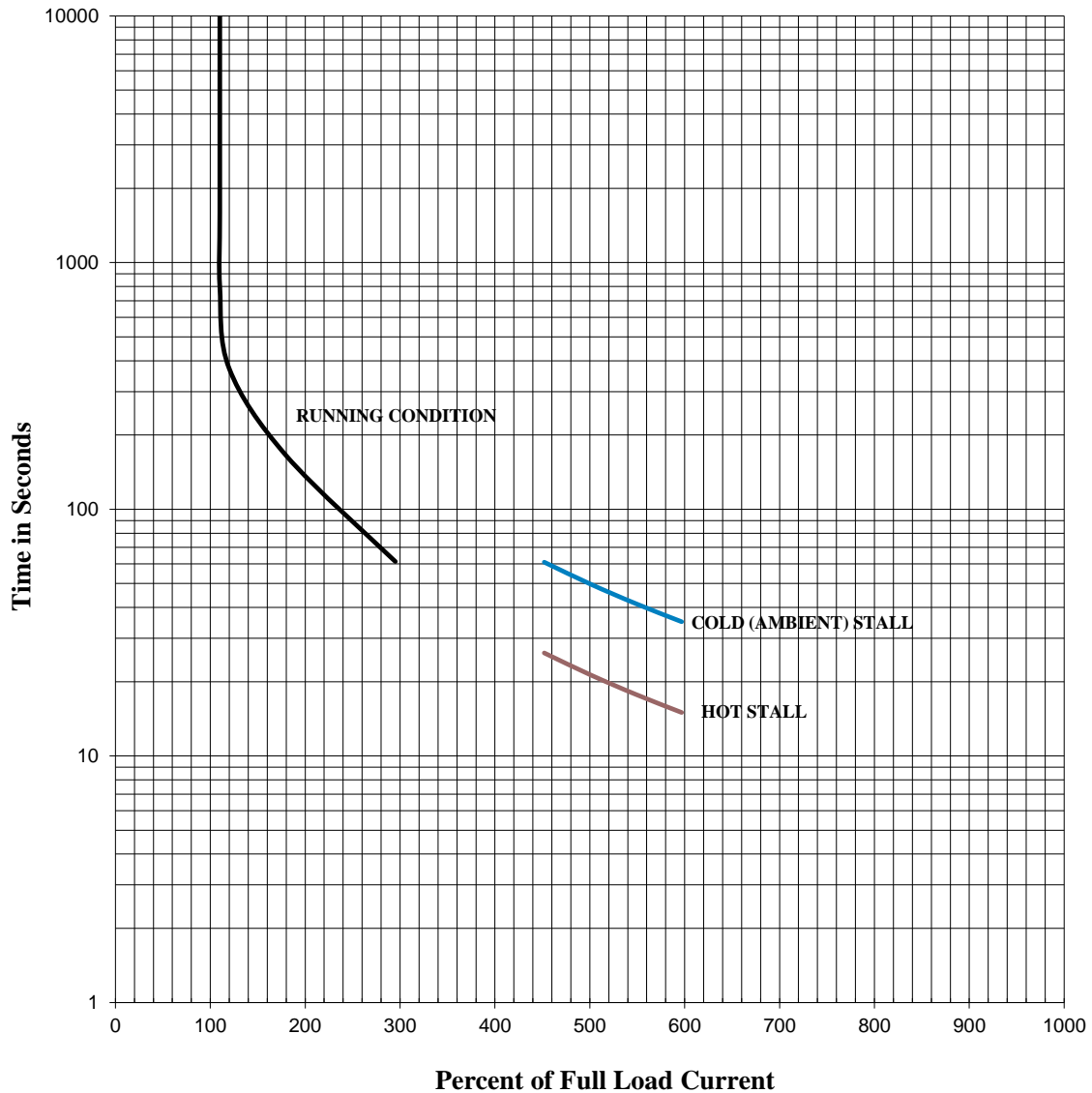
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	31
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	400 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6015 (15kW)

**Prepared by:** Zichao Xie

**Checked by:**

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	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: 1000
FRAME: 180L	ENCL: TEFC	FLAMPS: 30	FLRPM: 975
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0156SDMW7JS-P		kW: 15	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.76	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 193	FULL LOAD (lb-ft.): 108	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 300	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 305	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.5	FULL LOAD: 76.1
3/4 LOAD: 91.4	3/4 LOAD: 69.8
1/2 LOAD: 90.0	1/2 LOAD: 57.9

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:** 9/11/2020

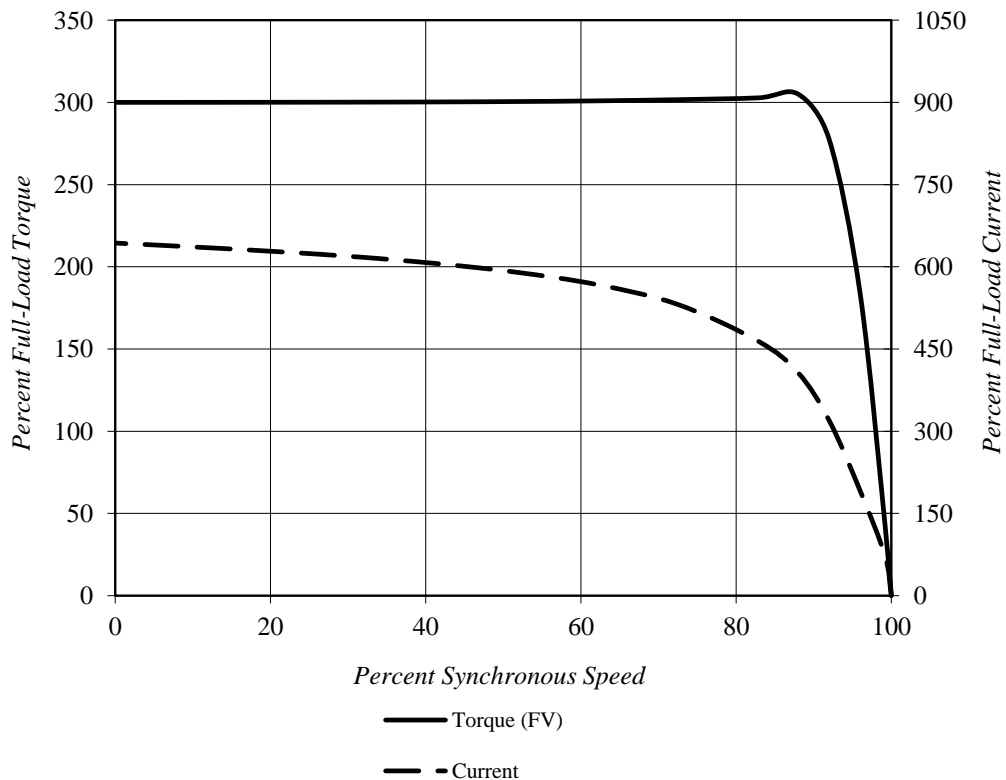
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	30
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)

<b>Locked Rotor Amps:</b>	193 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	300%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	305%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	108 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E. Curve #:** GH6015 (15kW)

**Prepared by:** Zichao Xie

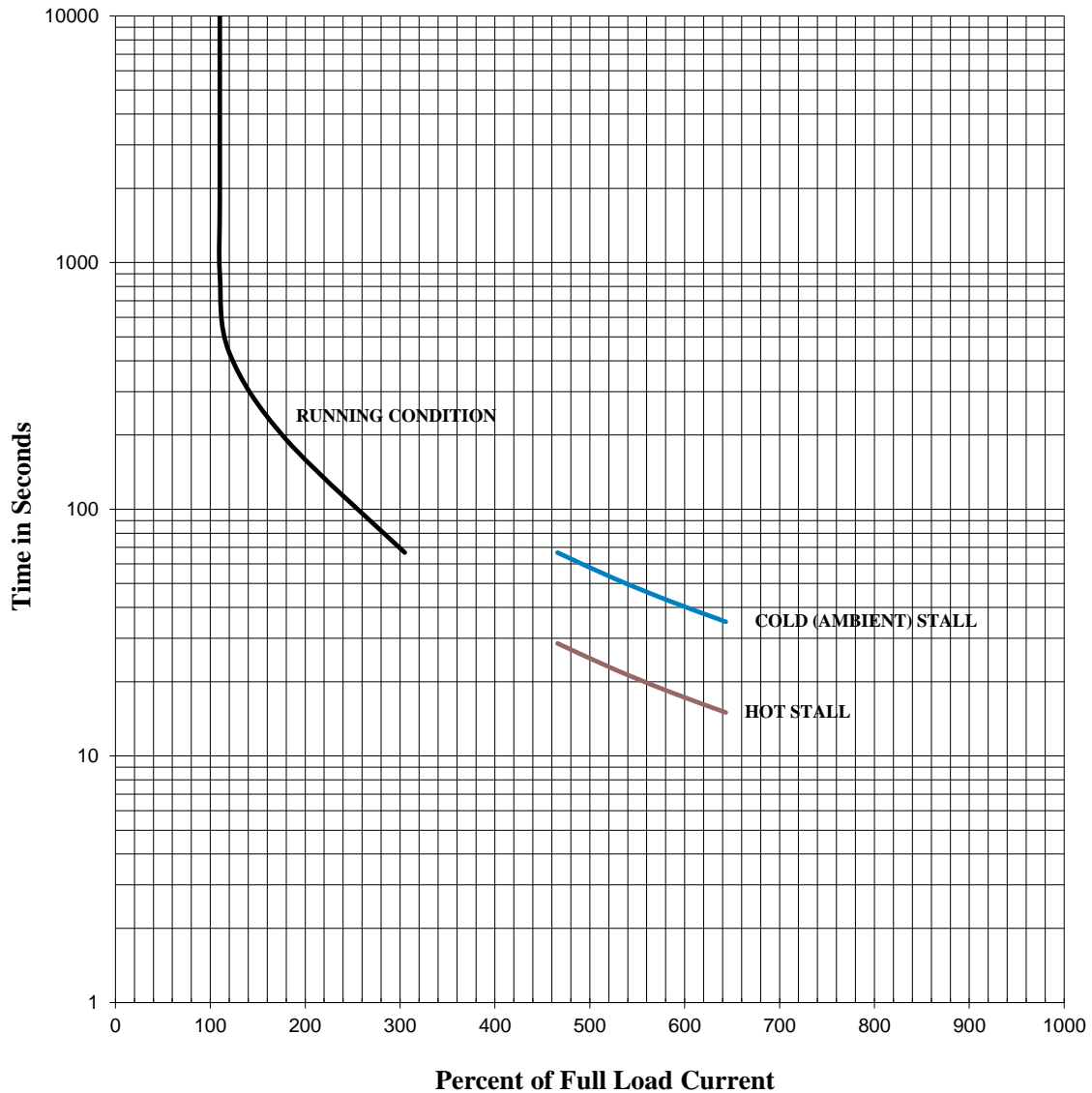
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	30
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	415 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	975	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** GH6015 (15kW)

**Prepared by:** Zichao Xie

**Checked by:**

<b>TOSHIBA INTERNATIONAL CORPORATION</b> Industrial Division / Houston Motor Plant  <b>SQUIRREL CAGE INDUCTION MOTOR</b> <b>PERFORMANCE SPECIFICATIONS</b>	INDEX	MPCF-1033
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	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: 180L	ENCL: TEFC	FLAMPS: 31	FLRPM: 970
FORM: FBKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: 0156SDMW7JS-P		kW: 15	
NOM. EFF.: 91.2	MIN. EFF.: -	cosØ 0.80	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 174	FULL LOAD (lb-ft.): 109	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 245	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 265	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.7	FULL LOAD: 80.6
3/4 LOAD: 91.1	3/4 LOAD: 76.4
1/2 LOAD: 90.3	1/2 LOAD: 66.8

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:** 9/11/2020



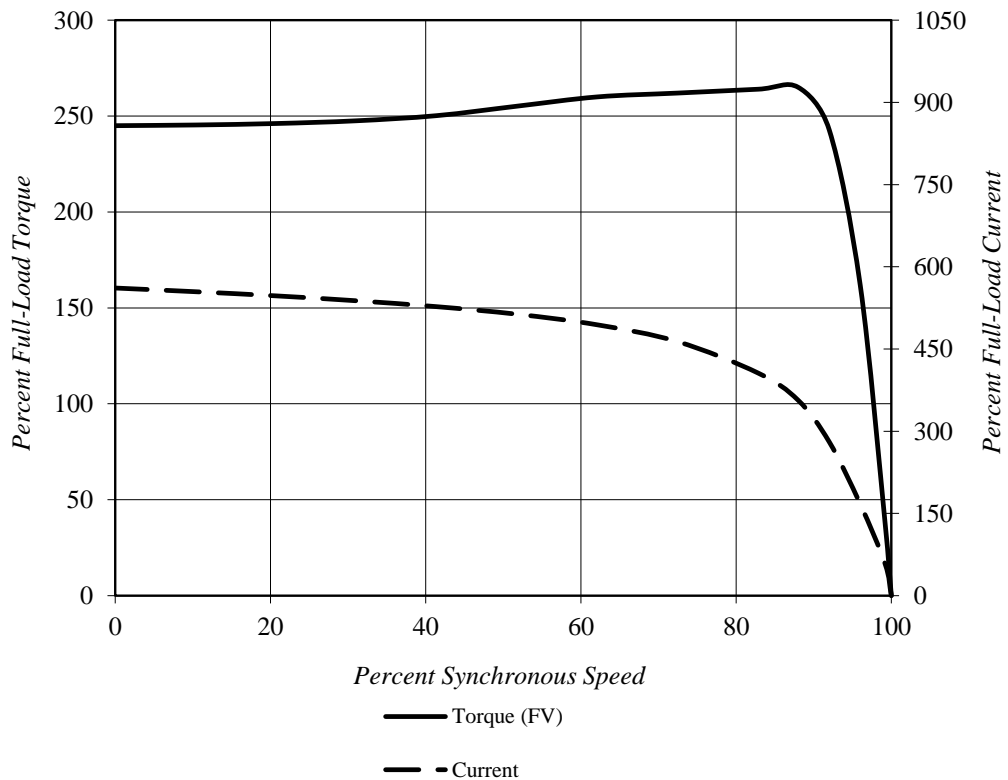
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	31
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)

<b>Locked Rotor Amps:</b>	174 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	245%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	265%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	109 lb-ft		

### *Design Values*



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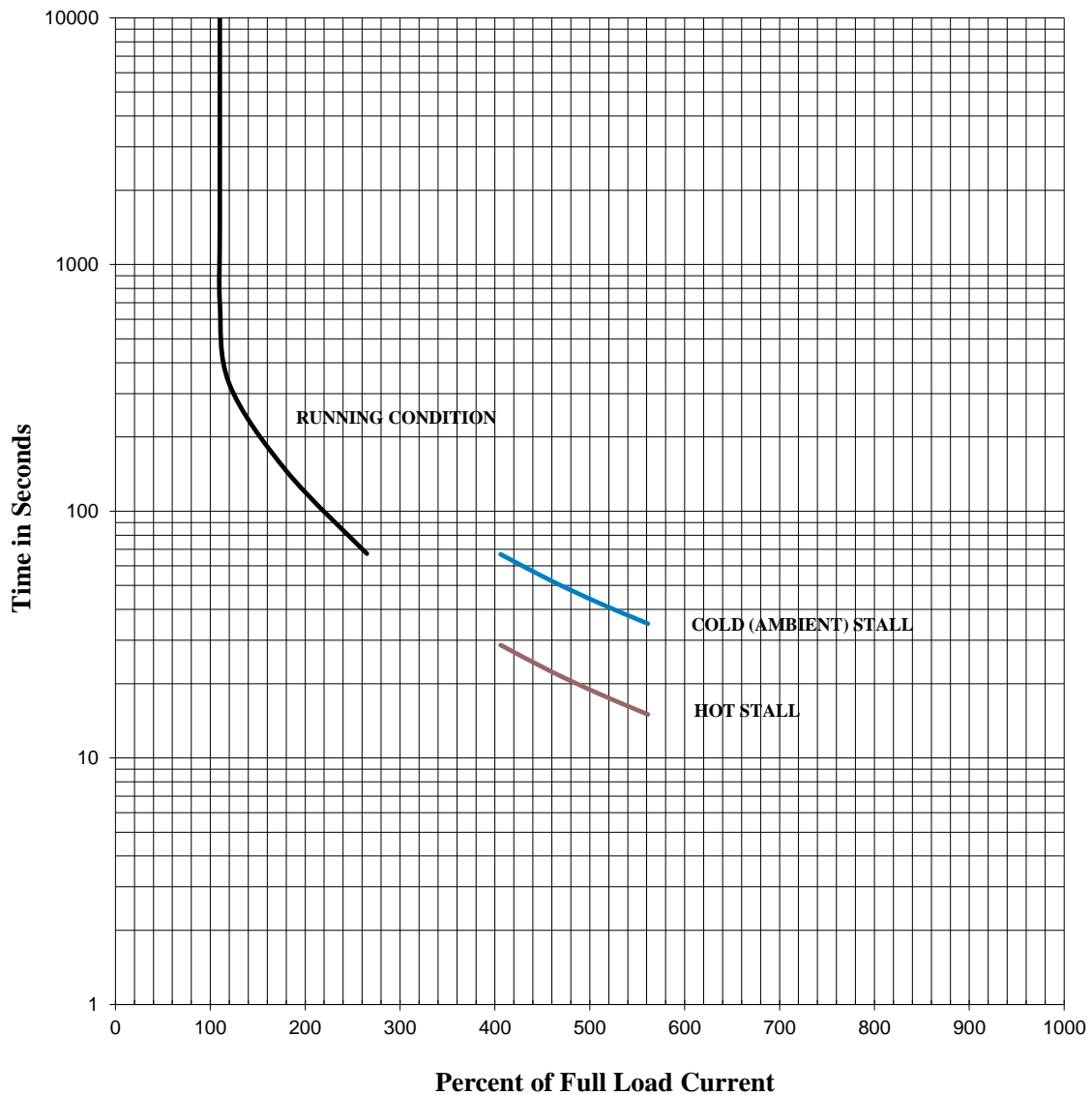
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# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	31
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	380 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	15	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	970	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)



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**D.E.Curve #:** GH6015 (15kW)

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**Checked by:**

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	ISSUED	7/31/13
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	REVISION	2
	WRITTEN BY	MDC
	APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

MOTOR NAMEPLATE DATA			
H.P.: 20	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1200
FRAME: 180L	ENCL: TEFC	FLAMPS: 27	FLRPM: 1175
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: J	DUTY: Cont.
MODEL No.: 0156SDMW7JS-P		kW: 15	
NOM. EFF.: 91.7	MIN. EFF.: -	P.F.: 76.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 189	FULL LOAD (lb-ft.): 90	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 335	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 370	

EFFICIENCY	POWER FACTOR
FULL LOAD: 92.7	FULL LOAD: 76.4
3/4 LOAD: 92.3	3/4 LOAD: 70.6
1/2 LOAD: 90.6	1/2 LOAD: 59.4

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.  
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**CERTIFIED BY:** Zichao Xie

**DATE:** 9/11/2020

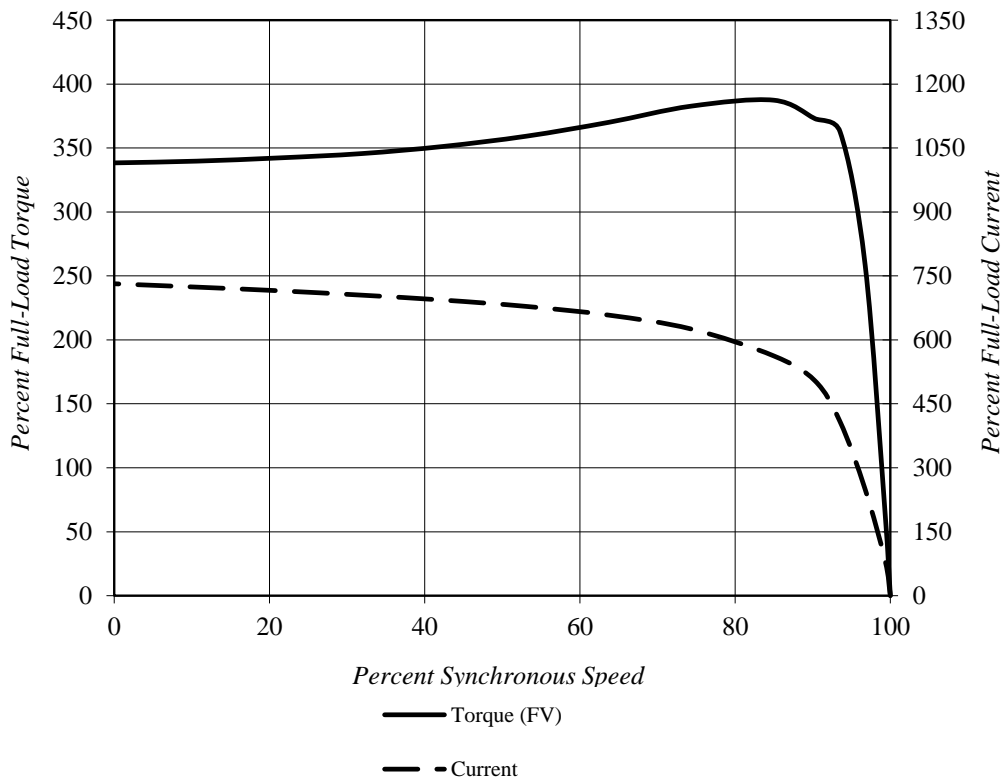
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	27
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	20	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)

<b>Locked Rotor Amps:</b>	189 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	335%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	370%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	90 lb-ft		

### *Design Values*



**Comments:** PROJECT -

**D.E. Curve #:** GH6015 (15kW)

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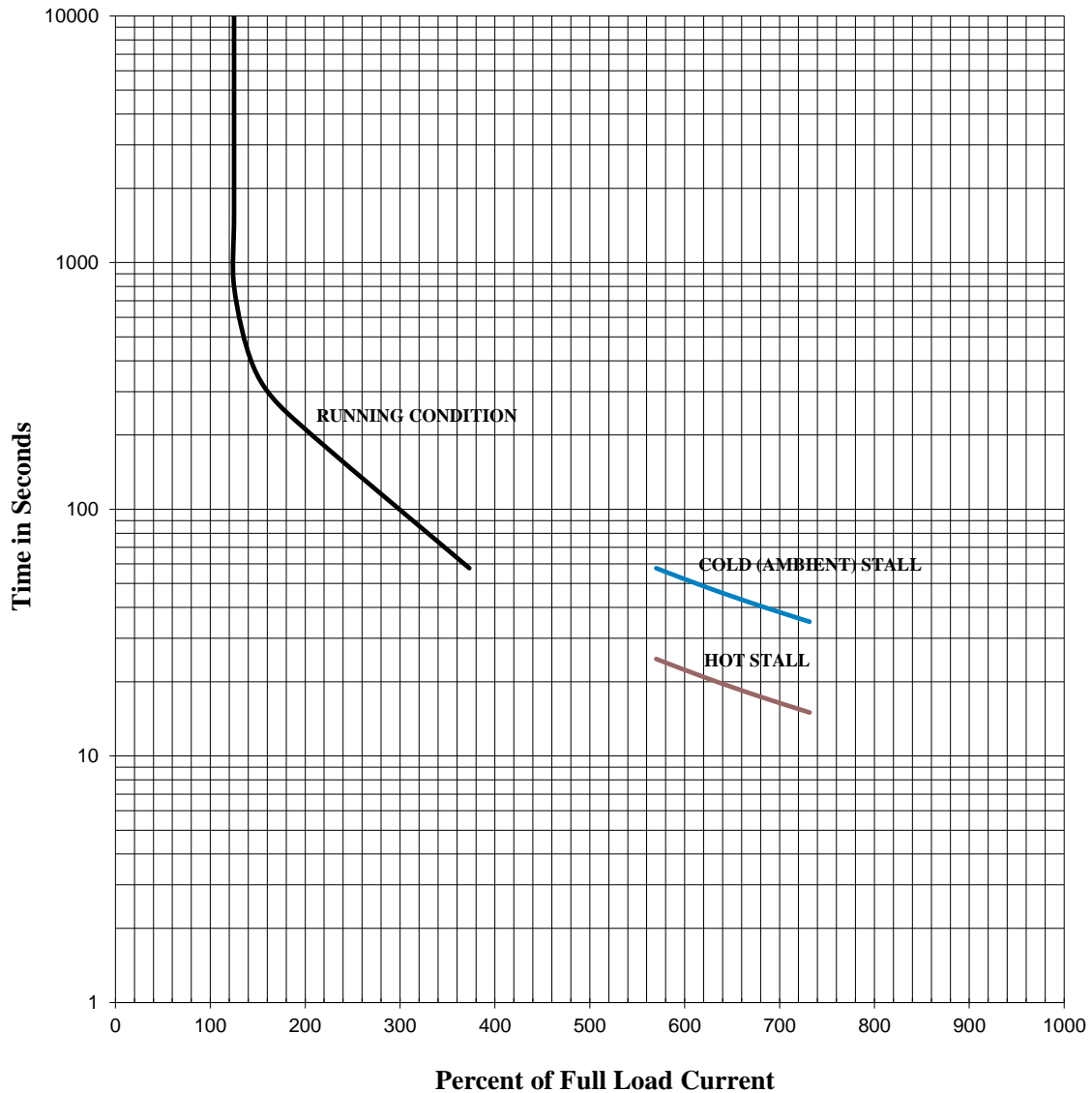
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# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	0156SDMW7JS-P			<b>FLAmps:</b>	27
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	180L
<b>Pole:</b>	6	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	20	<b>Rotor Inertia:</b>	5.9 lb-ft <sup>2</sup>	<b>Date:</b>	9/11/2020
<b>FLRPM:</b>	1175	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH6015 (15kW)



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