

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  
3HFN000229  
TOSHIBA  
TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES							
X.	±2.0						
X.X	±0.5						
X.XX	±0.1						
MAXIMUM MOTOR WEIGHT							
- lbs.							
- kgs.							
02	change to description	T.Danh	09-Sep-18	B.Quynh			
01	Change design BB adding slot hole	T.Danh	20-Apr-18	B.Quynh			
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**

**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: 230/400	3 PH / 50 Hz	S. RPM: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.2/3.0	FLRPM: 2875
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.85	

**AMPERAGE**

LOCKED ROTOR: 38/22

**TORQUES**

FULL LOAD (lb-ft.): 3.7  
LOCKED ROTOR (%): 315  
BREAK DOWN (%): 275

**\*\*BEARINGS:**

DRIVE END: REFER TO NP  
OPPOSITE DRIVE END: REFER TO NP

**EFFICIENCY**

FULL LOAD: 84.1  
3/4 LOAD: 84.6  
1/2 LOAD: 83.1

**POWER FACTOR**

FULL LOAD: 85.4  
3/4 LOAD: 80.6  
1/2 LOAD: 70.4

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:** 1/7/2020

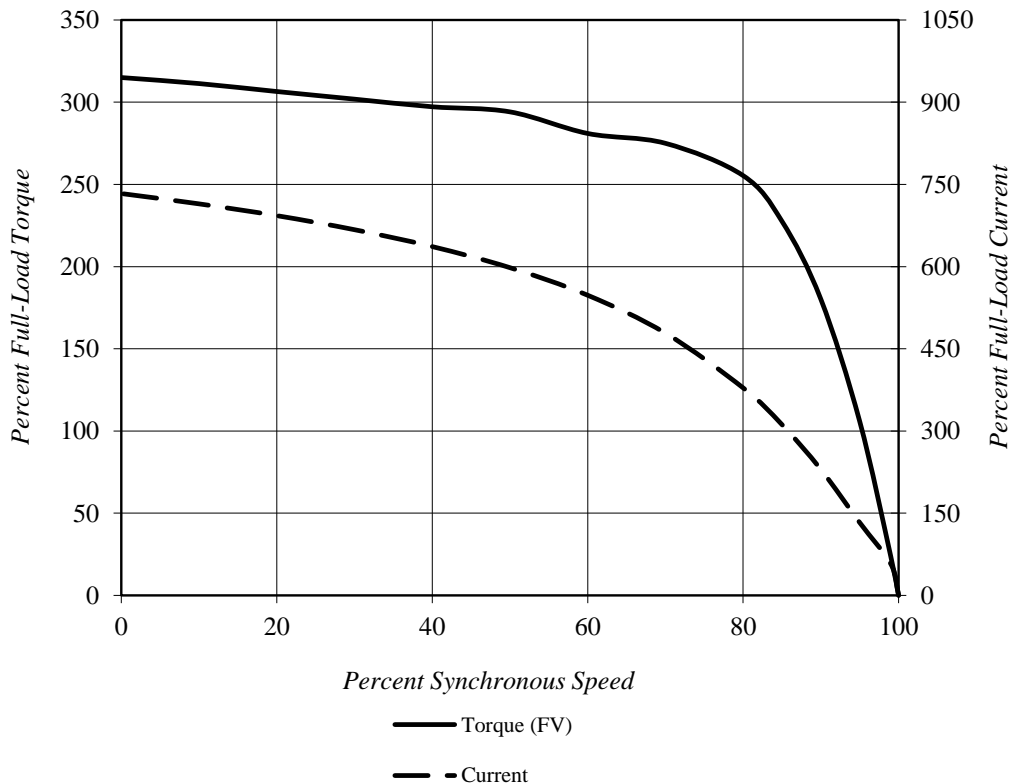
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.2/3.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2875	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	38/22 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	315%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	275%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	3.7 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

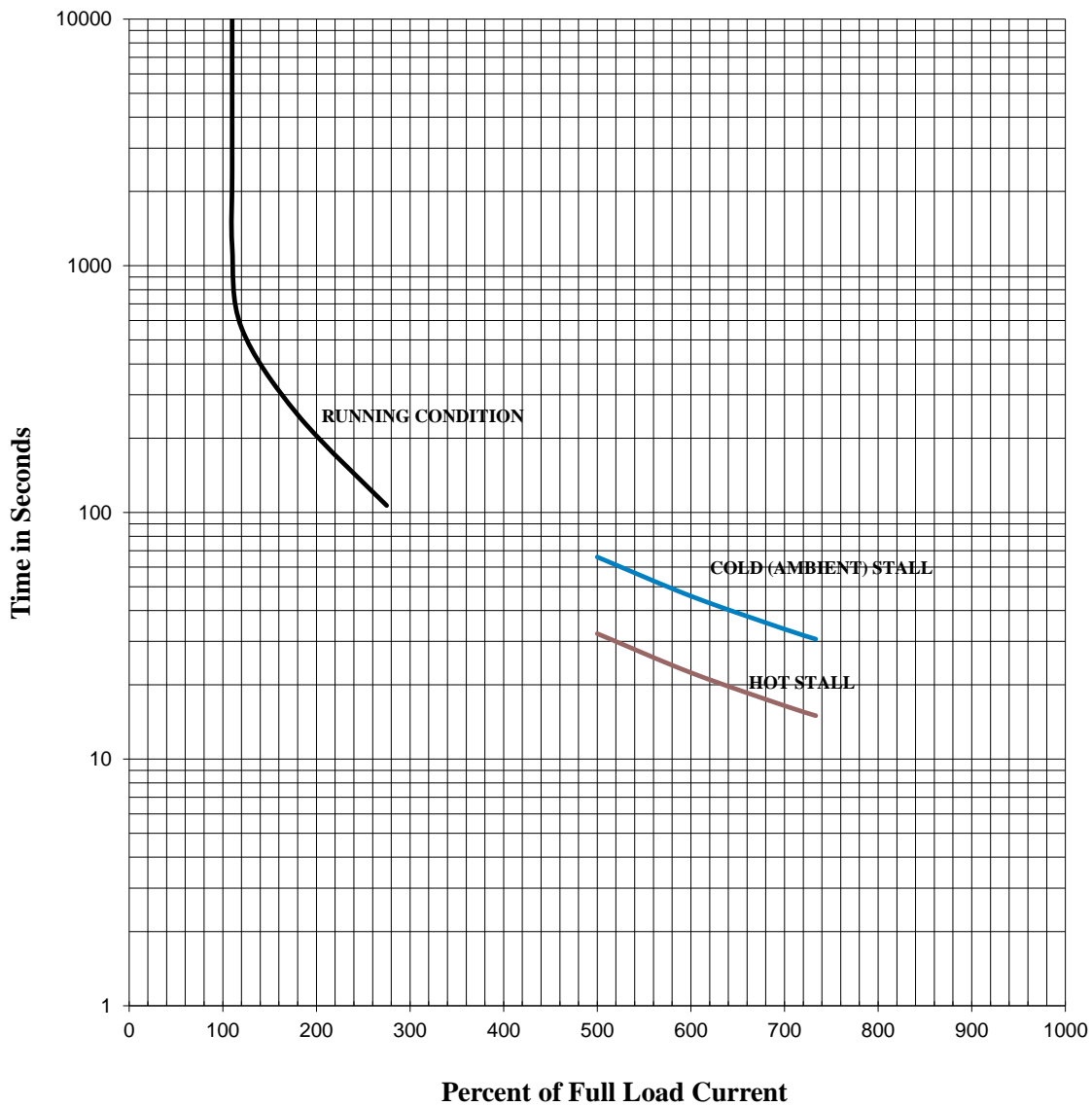
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.2/3.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2875	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2Y15 (1.5kW)

**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: 240/415	3 PH / 50 Hz	S. RPM: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.2/3.0	FLRPM: 2875
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.81	

**AMPERAGE**

LOCKED ROTOR: 40/23

**TORQUES**

FULL LOAD (lb-ft.): 3.6  
LOCKED ROTOR (%): 390  
BREAK DOWN (%): 295

**\*\*BEARINGS:**

DRIVE END: REFER TO NP  
OPPOSITE DRIVE END: REFER TO NP

**EFFICIENCY**

FULL LOAD: 84.1  
3/4 LOAD: 84.1  
1/2 LOAD: 82.1

**POWER FACTOR**

FULL LOAD: 81.7  
3/4 LOAD: 75.7  
1/2 LOAD: 64.0

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:** 1/7/2020

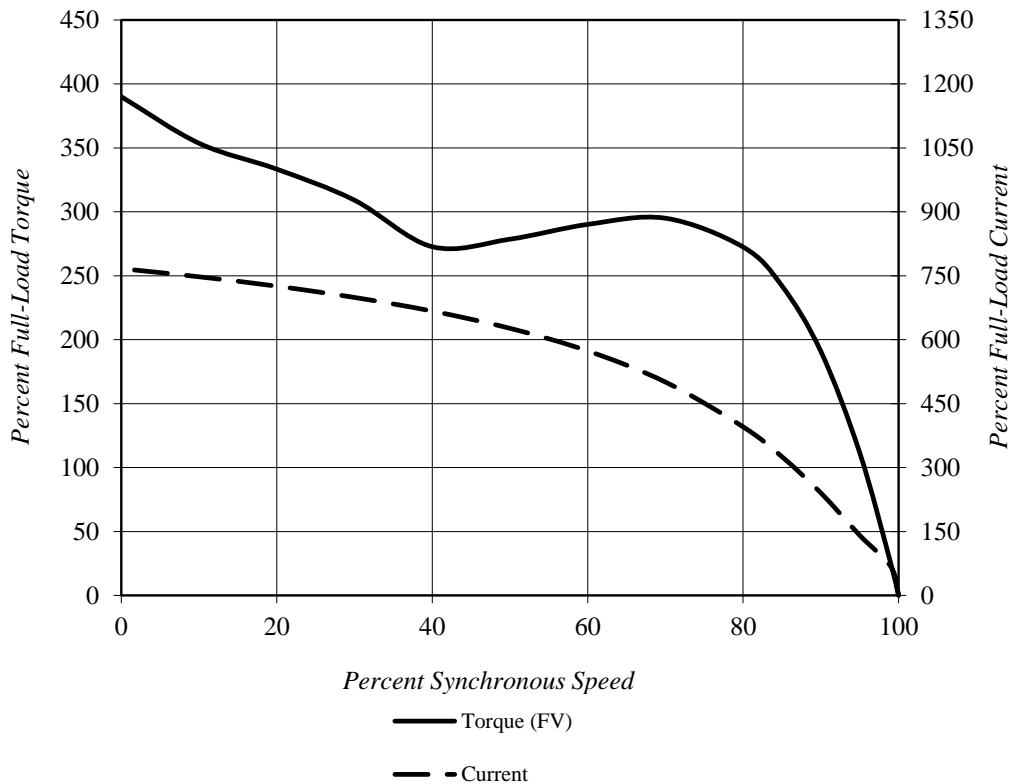
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.2/3.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2875	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	40/23 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	390%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	295%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	3.6 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

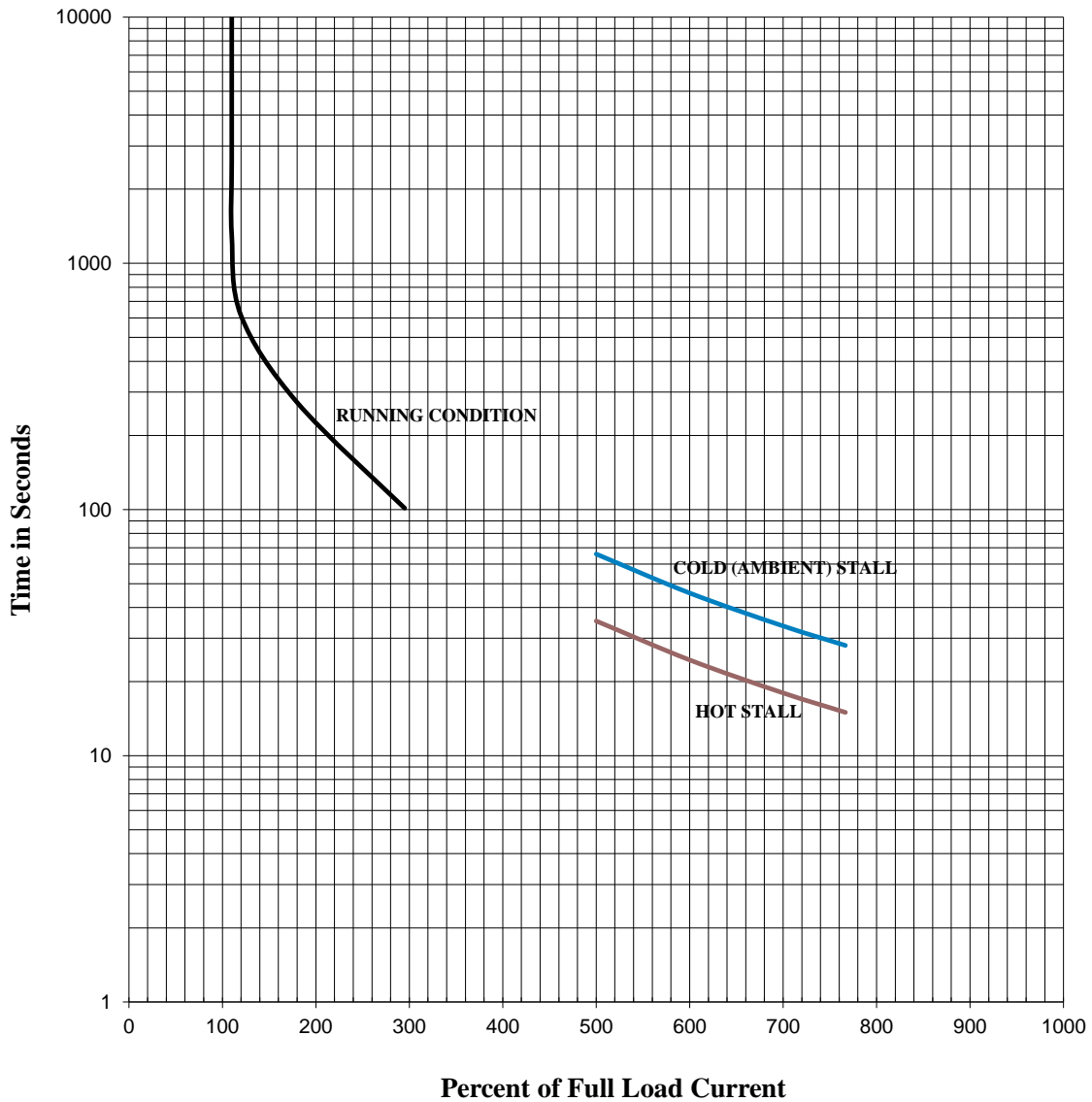
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.2/3.0
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2875	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** GH2Y15 (1.5kW)

**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
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REVISION	2
WRITTEN BY	MDC
APPROVED BY	PAA

CUSTOMER: -  
TIC SR No.: -

**MOTOR NAMEPLATE DATA**

H.P.: -	VOLTS: 220/380	3 PH / 50 Hz	S. RPM: 3000
FRAME: 90L	ENCL: TEFC	FLAMPS: 5.5/3.2	FLRPM: 2850
FORM: FCKL1	S.F.: -	IEC DESIGN N	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y152SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 84.2	MIN. EFF.: -	cosØ 0.87	

**AMPERAGE**

LOCKED ROTOR: 36/21

**TORQUES**

FULL LOAD (lb-ft.): 3.7  
LOCKED ROTOR (%): 315  
BREAK DOWN (%): 250

**\*\*BEARINGS:**

DRIVE END: REFER TO NP  
OPPOSITE DRIVE END: REFER TO NP

**EFFICIENCY**

FULL LOAD: 82.6  
3/4 LOAD: 83.7  
1/2 LOAD: 82.9

**POWER FACTOR**

FULL LOAD: 87.6  
3/4 LOAD: 84.3  
1/2 LOAD: 76.2

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:** 1/7/2020



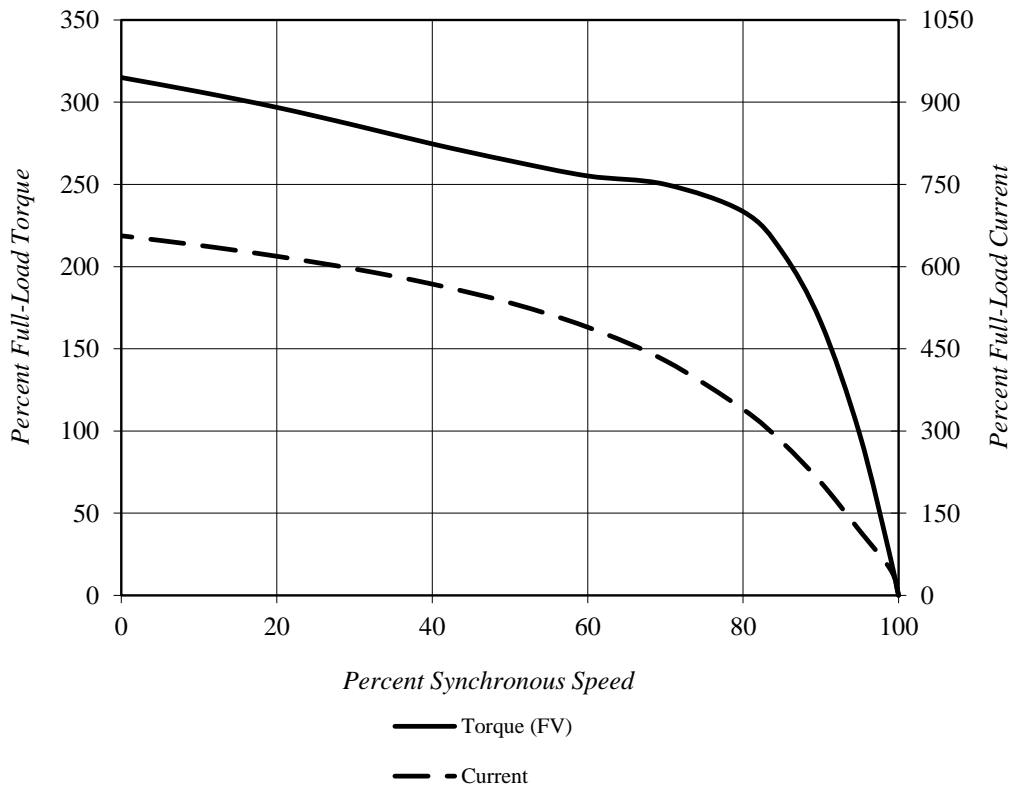
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.5/3.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2850	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	36/21 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	315%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	250%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	3.7 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

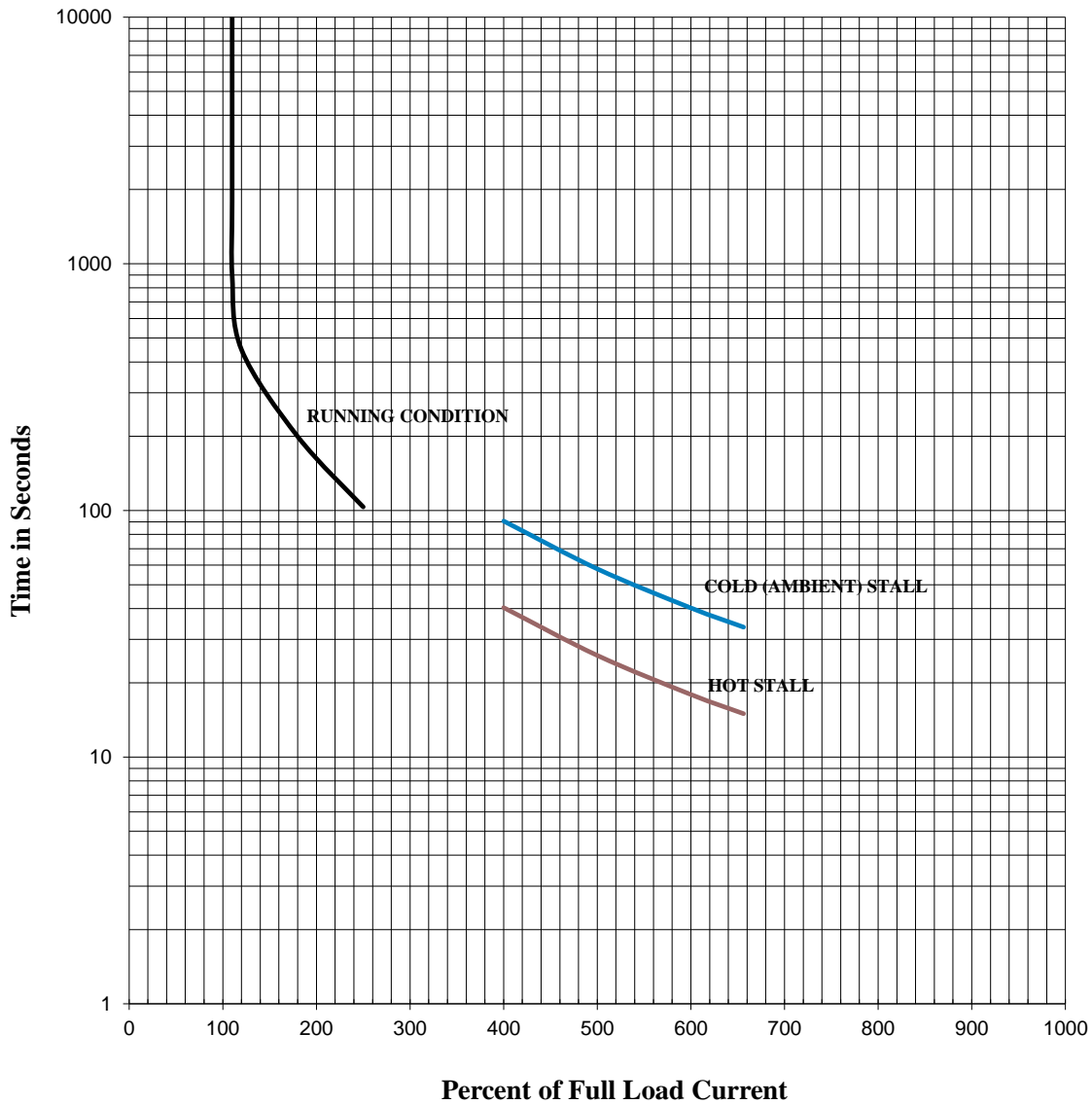
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	5.5/3.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	1.5	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	2850	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

**Checked by:**

**TOSHIBA INTERNATIONAL CORPORATION**  
**Industrial Division / Houston Motor Plant**

**SQUIRREL CAGE INDUCTION MOTOR**  
**PERFORMANCE SPECIFICATIONS**

INDEX	MPCF-1033
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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.: 2	VOLTS: 460	3 PH / 60 Hz	S. RPM: 3600
FRAME: 90L	ENCL: TEFC	FLAMPS: 2.6	FLRPM: 3495
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: IKH	AMB.: 40°C	CODE: L	DUTY: Cont.
MODEL No.: Y152SDMV7GS-PL		kW: 1.5	
NOM. EFF.: 85.5	MIN. EFF.: -	P.F.: 84.0	

**AMPERAGE**

LOCKED ROTOR: 24

**TORQUES**

FULL LOAD (lb-ft.): 3.0  
LOCKED ROTOR (%): 365  
BREAK DOWN (%): 315

**\*\*BEARINGS:**

DRIVE END: REFER TO NP  
OPPOSITE DRIVE END: REFER TO NP

**EFFICIENCY**

FULL LOAD: 86.8  
3/4 LOAD: 86.5  
1/2 LOAD: 84.2

**POWER FACTOR**

FULL LOAD: 84.2  
3/4 LOAD: 79.4  
1/2 LOAD: 69.3

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:** 1/7/2020

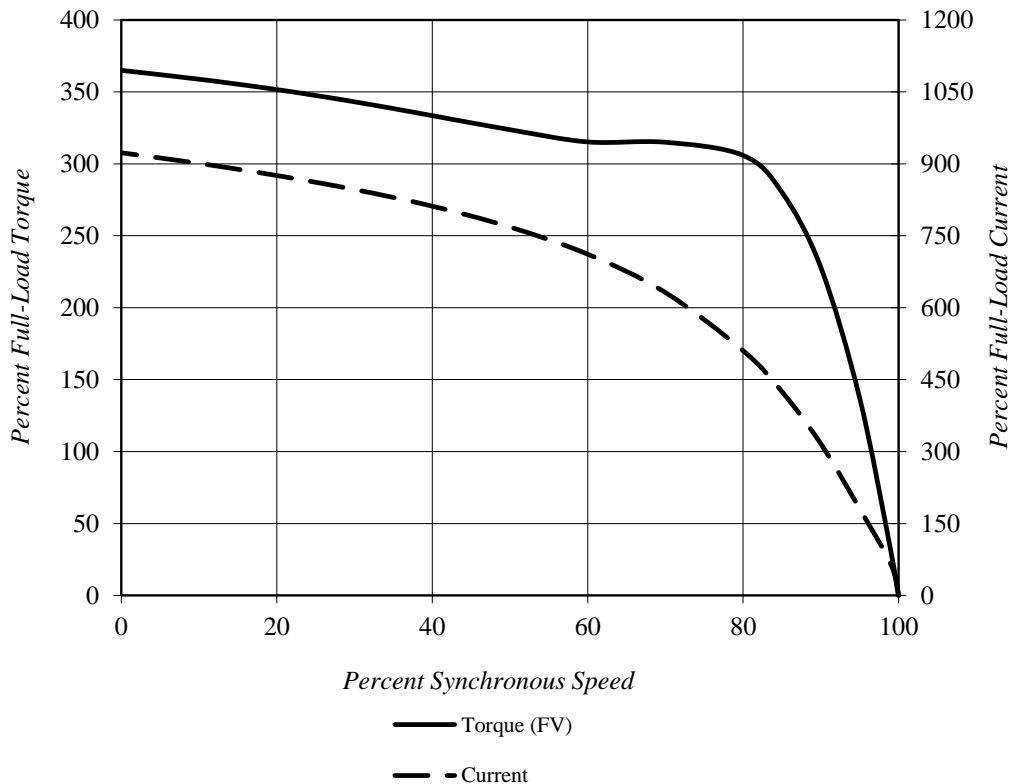
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	2.6
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	2	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	3495	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)

<b>Locked Rotor Amps:</b>	24 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	365%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	315%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	3 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

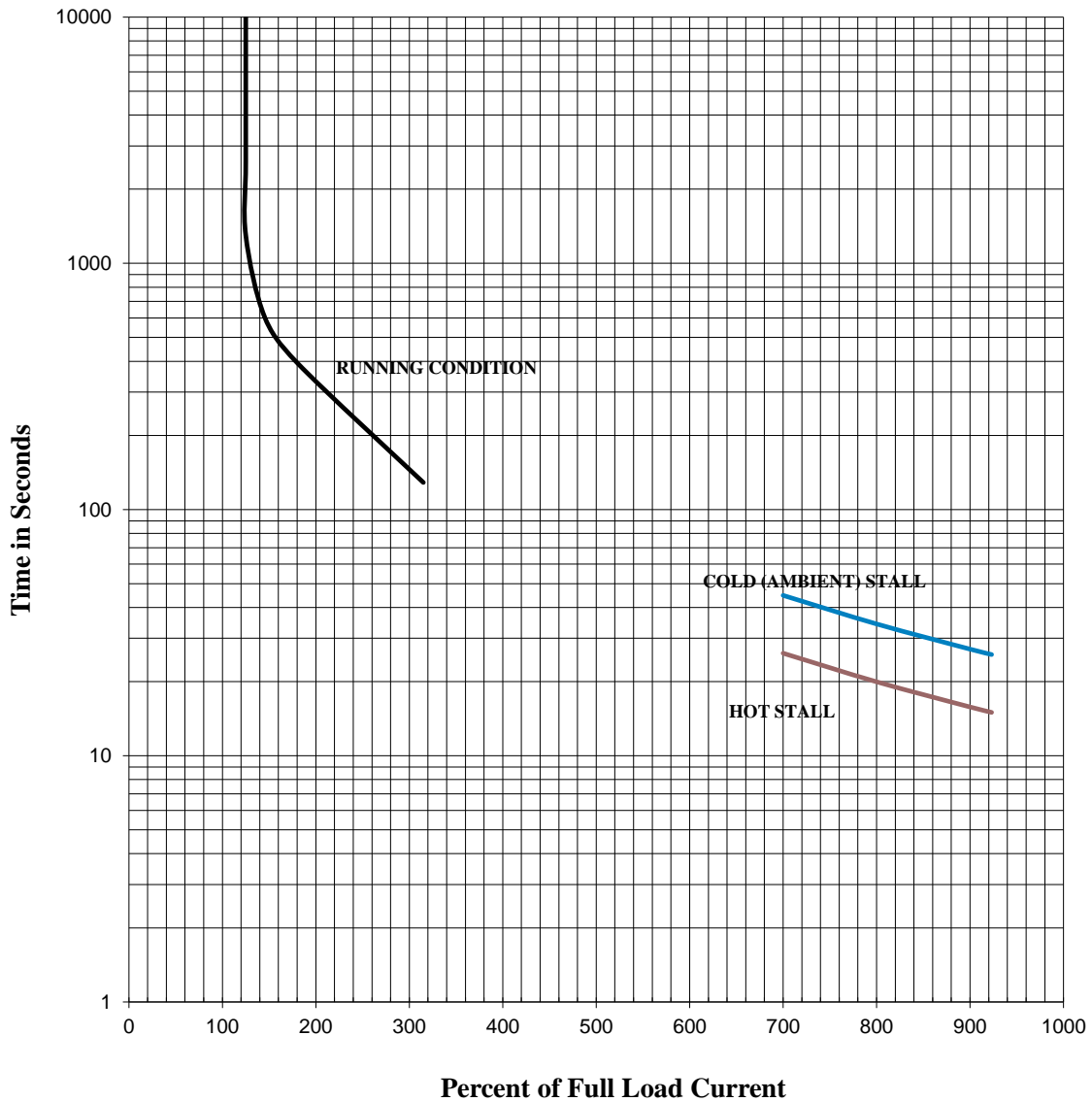
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y152SDMV7GS-PL			<b>FLAmps:</b>	2.6
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	90L
<b>Pole:</b>	2	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	2	<b>Rotor Inertia:</b>	0.07 lb-ft <sup>2</sup>	<b>Date:</b>	1/7/2020
<b>FLRPM:</b>	3495	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH2Y15 (1.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH2Y15 (1.5kW)

**Prepared by:** Zichao Xie

**Checked by:**