

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.

B34-FLANGE MOTOR OL DRAWING IEC GLOBAL	TYPE: 2-4-6P 400V	TOLERANCES						
	FRAME: 132S	X. $\pm 2.0$ X.X $\pm 0.5$ X.XX $\pm 0.1$						
3HFN000288		MAXIMUM MOTOR WEIGHT						DRAWN BY: HIEN, NGUYEN CHECK BY: B.X.QUYNH APPROVED BY: JAY BUGBEE <a href="http://www.toshiba.com/ind">www.toshiba.com/ind</a>
<b>TOSHIBA</b> TOSHIBA INTERNATIONAL CORPORATION		- lbs. - kgs.	NO	REVISION	DRAWN BY	DATE	CHECK	

<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: 230/400	3 PH / 50 Hz	S. RPM: 1500
FRAME: 132S	ENCL: TEFC	FLAMPS: 19.5/11.2	FLRPM: 1465
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y554SDMV7HS-PL		kW: 5.5	
NOM. EFF.: 89.6	MIN. EFF.: -	cosØ 0.78	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 166/96	FULL LOAD (lb-ft.): 26	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 415	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 420	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.8	FULL LOAD: 78.0
3/4 LOAD: 90.2	3/4 LOAD: 71.8
1/2 LOAD: 87.8	1/2 LOAD: 60.0

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:** 10/18/2019

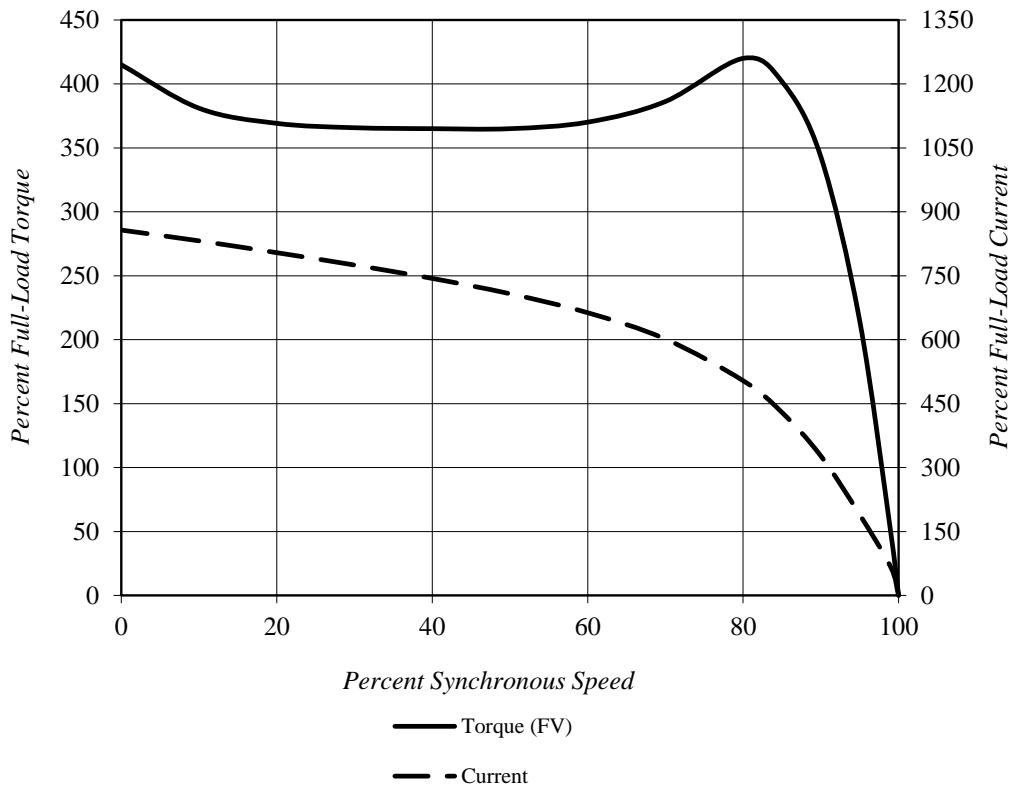
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.5/11.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1465	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)

<b>Locked Rotor Amps:</b>	166/96 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	415%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	420%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	26 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

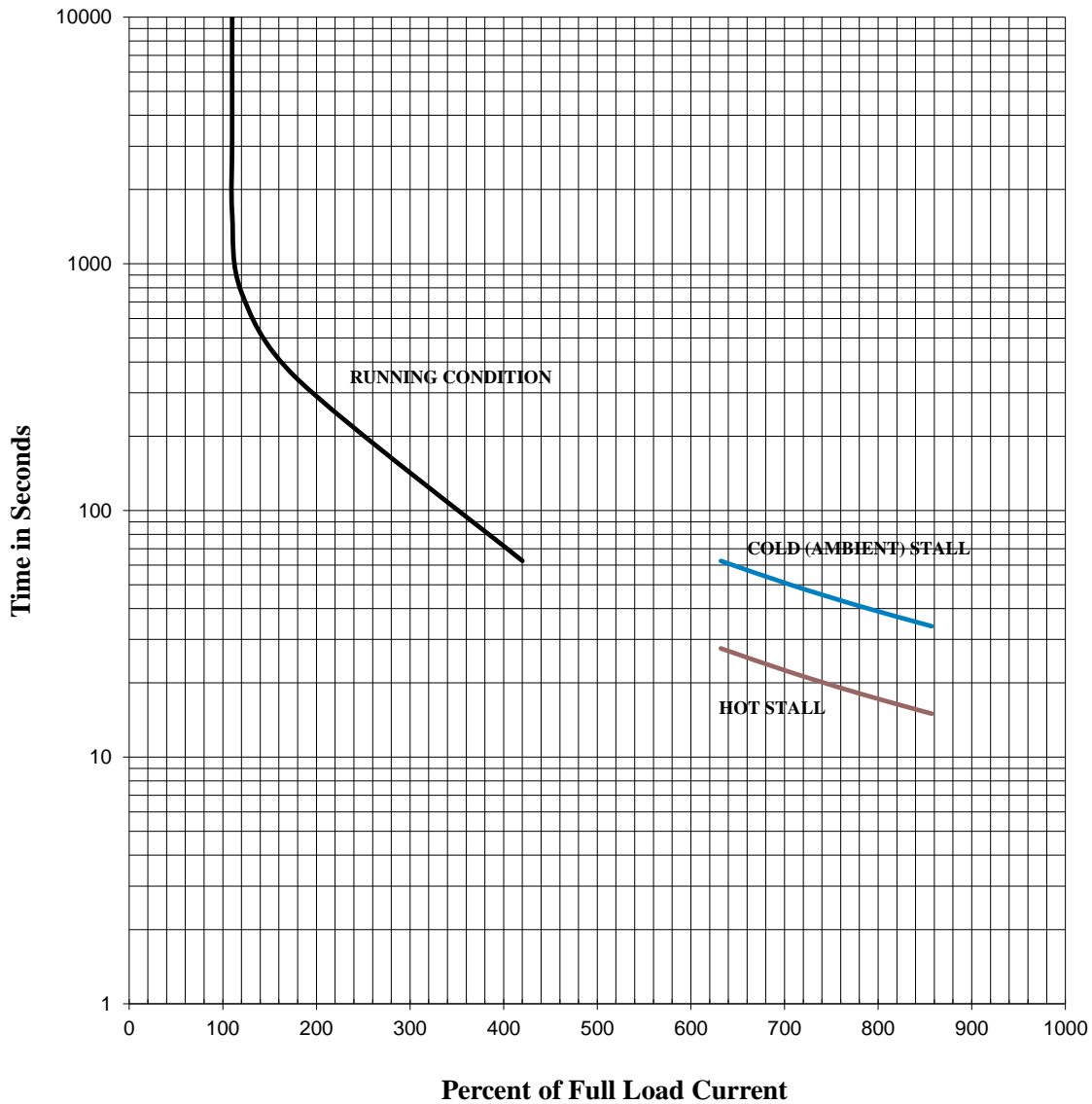
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.5/11.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	230/400 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1465	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)



**Comments:** PROJECT \_\_\_\_\_  
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**D.E. Curve #:** GH4Y55 (5.5kW)

**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: 240/415	3 PH / 50 Hz	S. RPM: 1500
FRAME: 132S	ENCL: TEFC	FLAMPS: 19.4/11.2	FLRPM: 1470
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y554SDMV7HS-PL		kW: 5.5	
NOM. EFF.: 89.6	MIN. EFF.: -	cosØ 0.75	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 173/100	FULL LOAD (lb-ft.): 26	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 455	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 450	

EFFICIENCY	POWER FACTOR
FULL LOAD: 90.9	FULL LOAD: 75.1
3/4 LOAD: 90.1	3/4 LOAD: 67.9
1/2 LOAD: 87.4	1/2 LOAD: 55.3

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:** 10/18/2019

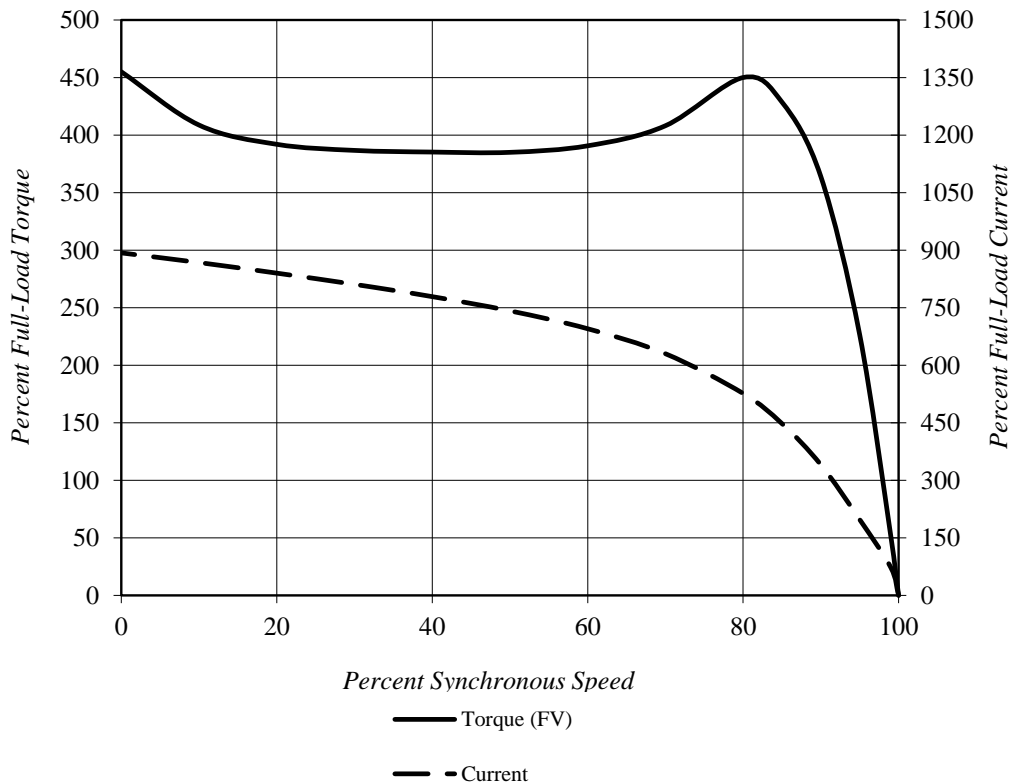
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.4/11.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1470	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)

<b>Locked Rotor Amps:</b>	173/100 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	455%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	450%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	26 lb-ft		

### *Design Values*



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

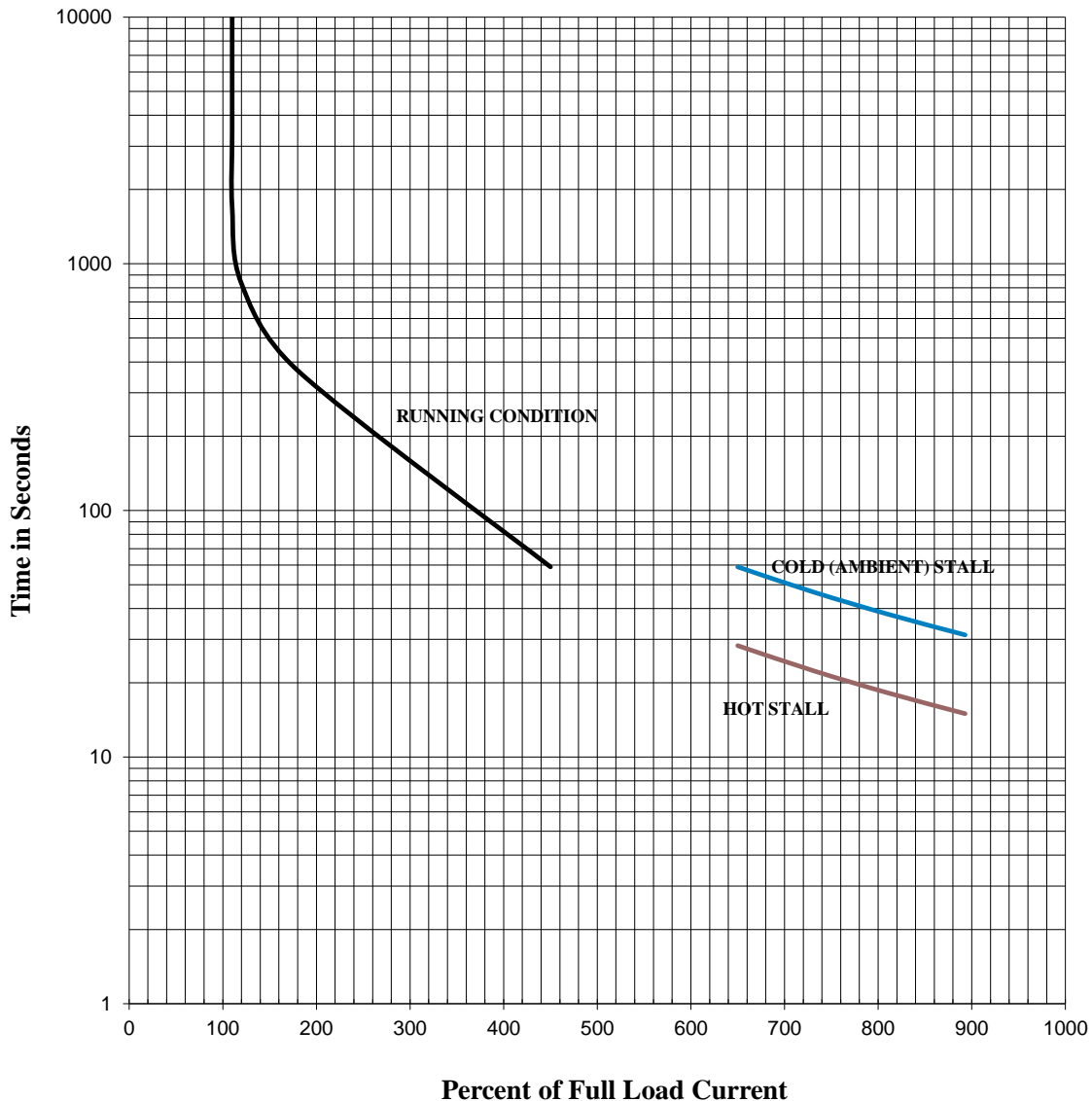
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.4/11.2
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	240/415 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1470	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4Y55 (5.5kW)

**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: 220/380	3 PH / 50 Hz	S. RPM: 1500
FRAME: 132S	ENCL: TEFC	FLAMPS: 19.7/11.4	FLRPM: 1465
FORM: FBKL1	S.F.: -	IEC DESIGN NE	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: -	DUTY: Cont.
MODEL No.: Y554SDMV7HS-PL		kW: 5.5	
NOM. EFF.: 89.6	MIN. EFF.: -	cosØ 0.81	

**AMPERAGE**

LOCKED ROTOR: 156/90

**TORQUES**

FULL LOAD (lb-ft.): 27  
LOCKED ROTOR (%): 370  
BREAK DOWN (%): 380

**\*\*BEARINGS:**

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

**EFFICIENCY**

FULL LOAD: 90.4  
3/4 LOAD: 90.1  
1/2 LOAD: 88.2

**POWER FACTOR**

FULL LOAD: 81.3  
3/4 LOAD: 76.5  
1/2 LOAD: 66.3

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:** 10/18/2019



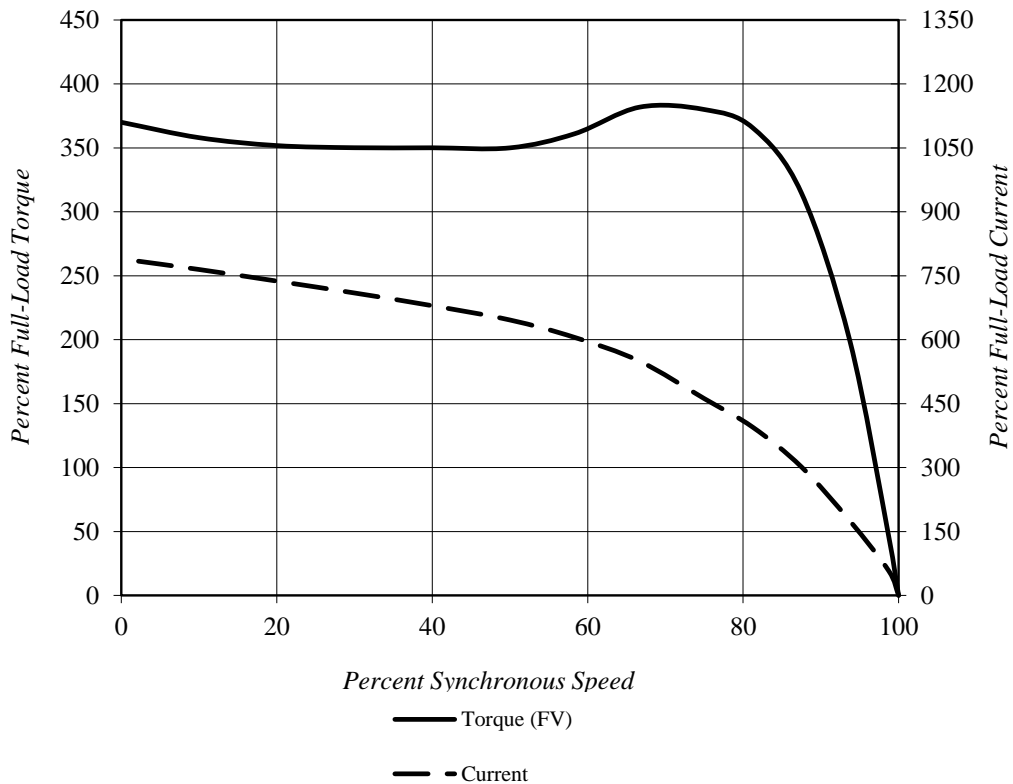
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.7/11.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1465	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)

<b>Locked Rotor Amps:</b>	156/90 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	370%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	380%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	27 lb-ft		

### *Design Values*



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**D.E. Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

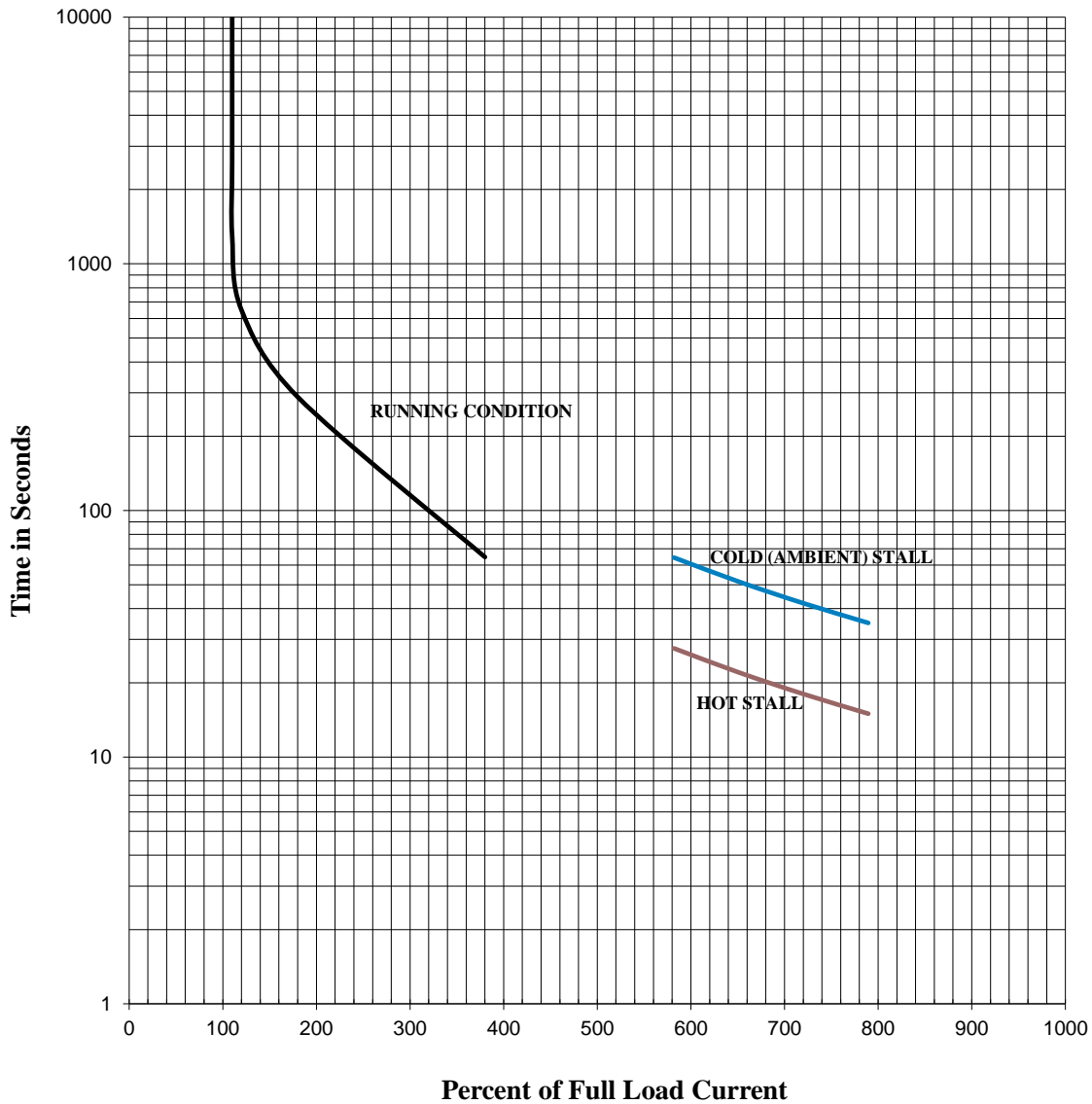
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	19.7/11.4
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	220/380 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 50 Hz	<b>Ins. Class:</b>	F
<b>KW:</b>	5.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1465	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)



**Comments:** PROJECT -  
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**D.E.Curve #:** GH4Y55 (5.5kW)

**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.: 7.5	VOLTS: 460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 132S	ENCL: TEFC	FLAMPS: 9.9	FLRPM: 1770
FORM: FBKL1	S.F.: 1.15	NEMA DESIGN: A	INSUL CLASS: F
TYPE: IKKH	AMB.: 40°C	CODE: M	DUTY: Cont.
MODEL No.: Y554SDMV7HS-PL		kW: 5.5	
NOM. EFF.: 91.7	MIN. EFF.: -	P.F.: 76.0	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 98	FULL LOAD (lb-ft.): 22	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 430	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 440	

EFFICIENCY	POWER FACTOR
FULL LOAD: 91.3	FULL LOAD: 76.3
3/4 LOAD: 90.2	3/4 LOAD: 70.1
1/2 LOAD: 87.4	1/2 LOAD: 58.4

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).

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**DATE:** 10/18/2019

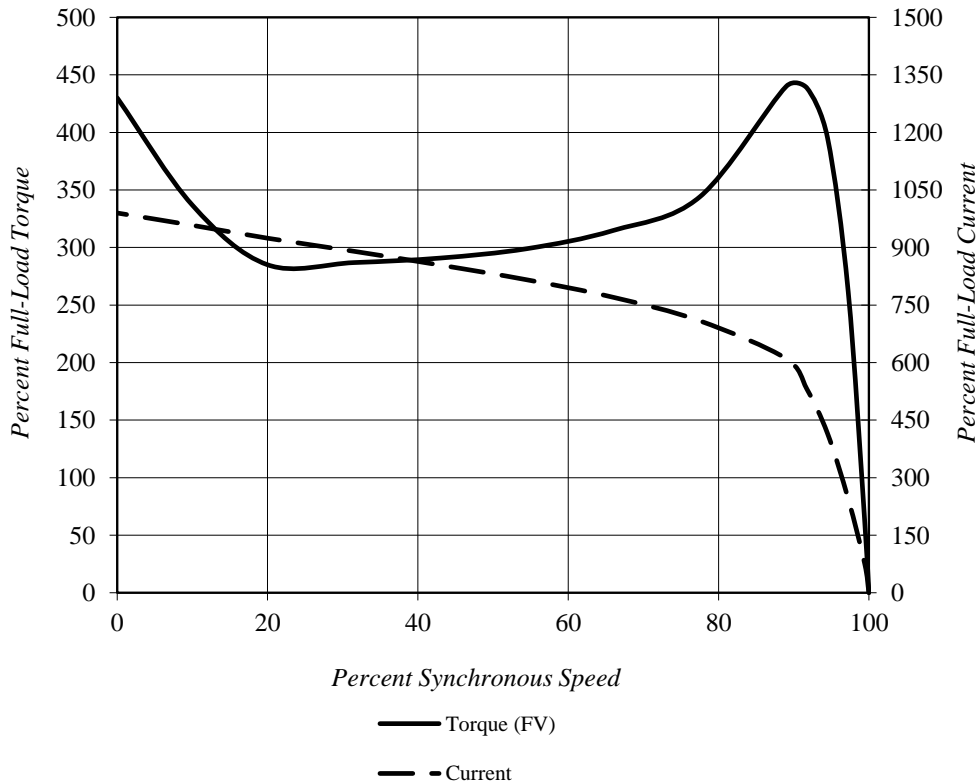
# TOSHIBA INTERNATIONAL CORPORATION

## Speed Torque/Current Curve

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	9.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	7.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1770	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)

<b>Locked Rotor Amps:</b>	98 A	<b>Load Type:</b>	N/A
<b>Locked Rotor Torque:</b>	430%	<b>Starting at:</b>	N/A
<b>Breakdown Torque:</b>	440%	<b>Accel. Time:</b>	N/A
<b>Rated Torque:</b>	22 lb-ft		

### Design Values



**Comments:** PROJECT -  
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**D.E. Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

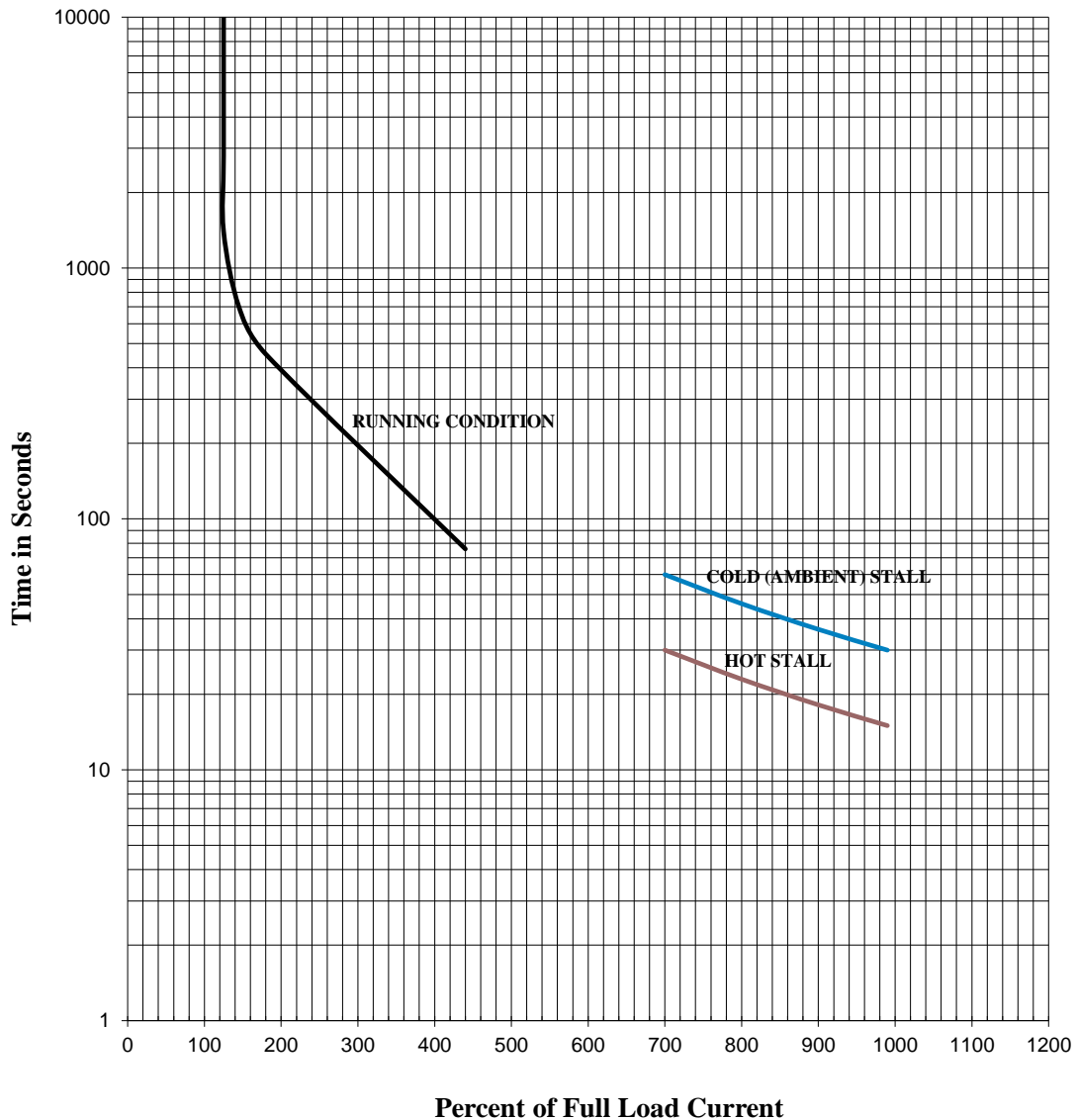
**Checked by:**

# TOSHIBA INTERNATIONAL CORPORATION

## Thermal Limit & Acceleration Curves

*Design Values (For Reference Only)*

<b>Model #:</b>	Y554SDMV7HS-PL			<b>FLAmps:</b>	9.9
<b>Enclosure:</b>	TEFC	<b>Voltage:</b>	460 V	<b>Frame:</b>	132S
<b>Pole:</b>	4	<b>Frequency:</b>	3 PH / 60 Hz	<b>Ins. Class:</b>	F
<b>HP:</b>	7.5	<b>Rotor Inertia:</b>	1.1 lb-ft <sup>2</sup>	<b>Date:</b>	10/18/2019
<b>FLRPM:</b>	1770	<b>Load Inertia:</b>	N/A	<b>File:</b>	GH4Y55 (5.5kW)



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**D.E. Curve #:** GH4Y55 (5.5kW)

**Prepared by:** Zichao Xie

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