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| 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 |
| | 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: 160M | ENCL: TEFC | FLAMPS: 15.4 | FLRPM: 965 |
| FORM: FBKL1 | S.F.: - | IEC DESIGN N | INSUL CLASS: F |
| TYPE: IKKH | AMB.: 40°C | CODE: - | DUTY: Cont. |
| MODEL No.: Y756SDMW7HS-PL | | kW: 7.5 | |
| NOM. EFF.: 89.1 | MIN. EFF.: - | cosØ 0.78 | |

| AMPERAGE | TORQUES | **BEARINGS: |
|-------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 105 | FULL LOAD (lb-ft.): 55 | DRIVE END: REFER TO NP |
| | LOCKED ROTOR (%): 290 | OPPOSITE DRIVE END: REFER TO NP |
| | BREAK DOWN (%): 295 | |

| EFFICIENCY | POWER FACTOR |
|-----------------|-----------------|
| FULL LOAD: 90.0 | FULL LOAD: 78.0 |
| 3/4 LOAD: 90.1 | 3/4 LOAD: 73.7 |
| 1/2 LOAD: 88.7 | 1/2 LOAD: 63.9 |

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: 9/10/2020

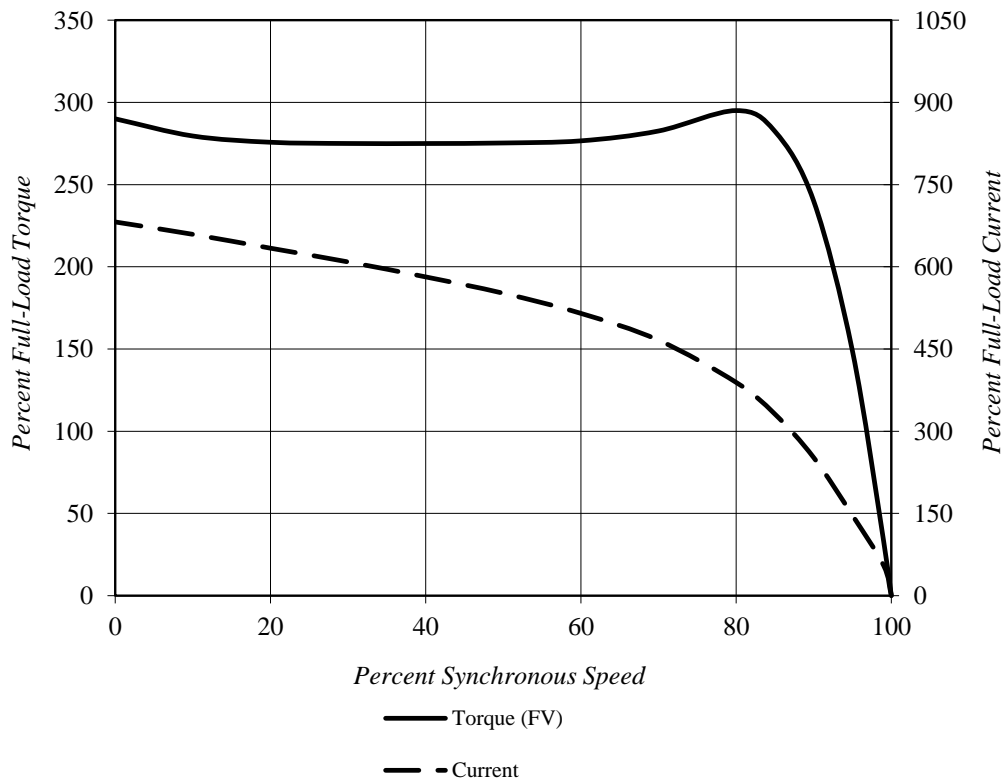
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 15.4 |
| Enclosure: | TEFC | Voltage: | 400 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 965 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |

| | | | |
|-----------------------------|----------|---------------------|-----|
| Locked Rotor Amps: | 105 A | Load Type: | N/A |
| Locked Rotor Torque: | 290% | Starting at: | N/A |
| Breakdown Torque: | 295% | Accel. Time: | N/A |
| Rated Torque: | 55 lb-ft | | |

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

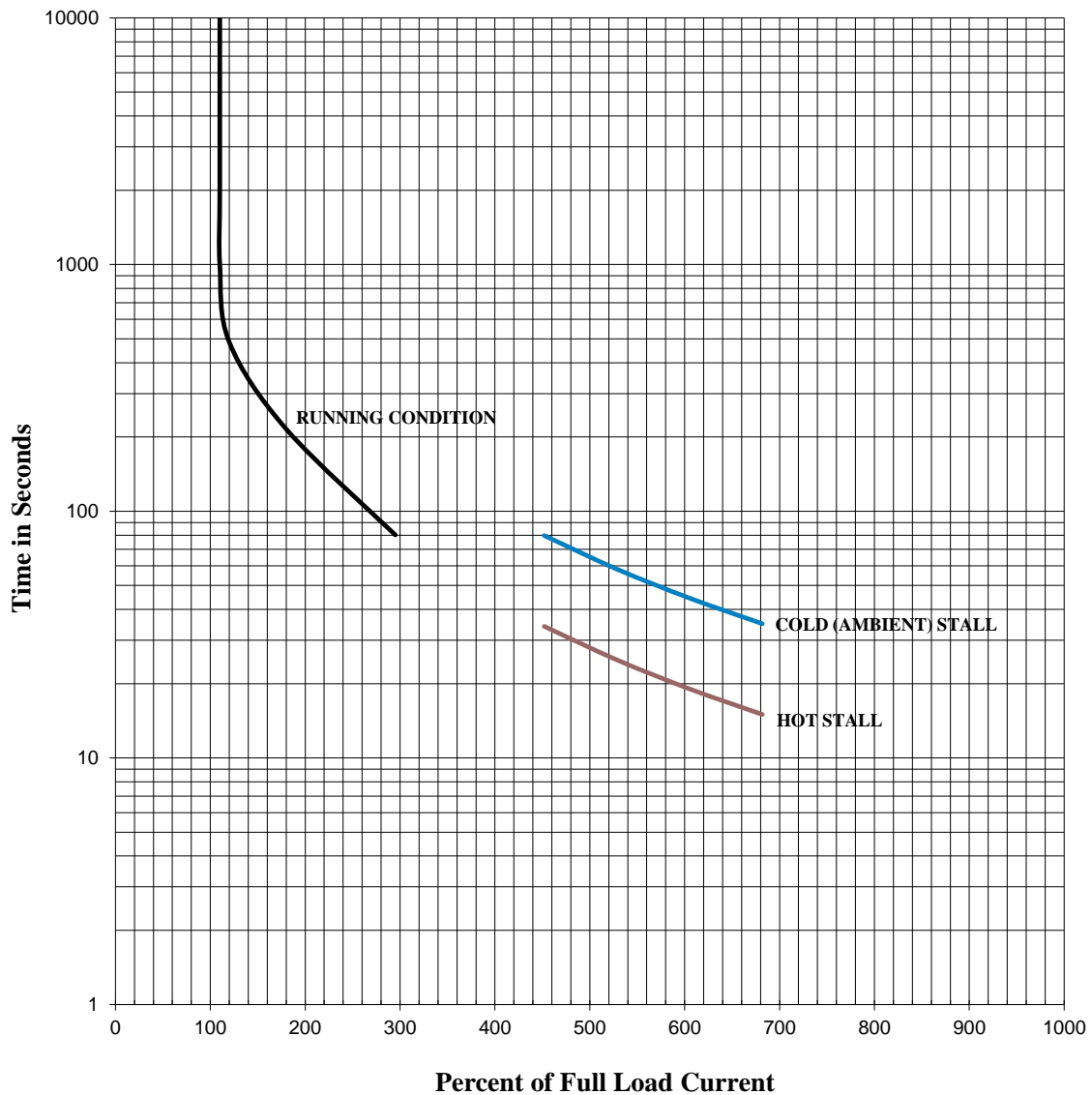
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TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 15.4 |
| Enclosure: | TEFC | Voltage: | 400 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 965 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

Checked by:

| | | |
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| | 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: 160M | ENCL: TEFC | FLAMPS: 14.9 | FLRPM: 970 |
| FORM: FBKL1 | S.F.: - | IEC DESIGN N | INSUL CLASS: F |
| TYPE: IKKH | AMB.: 40°C | CODE: - | DUTY: Cont. |
| MODEL No.: Y756SDMW7HS-PL | | kW: 7.5 | |
| NOM. EFF.: 89.1 | MIN. EFF.: - | cosØ 0.77 | |

| AMPERAGE | TORQUES | **BEARINGS: |
|-------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 109 | FULL LOAD (lb-ft.): 55 | DRIVE END: REFER TO NP |
| | LOCKED ROTOR (%): 315 | OPPOSITE DRIVE END: REFER TO NP |
| | BREAK DOWN (%): 315 | |

| EFFICIENCY | POWER FACTOR |
|-----------------|-----------------|
| FULL LOAD: 90.6 | FULL LOAD: 77.5 |
| 3/4 LOAD: 90.5 | 3/4 LOAD: 72.2 |
| 1/2 LOAD: 88.8 | 1/2 LOAD: 61.4 |

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: 9/10/2020

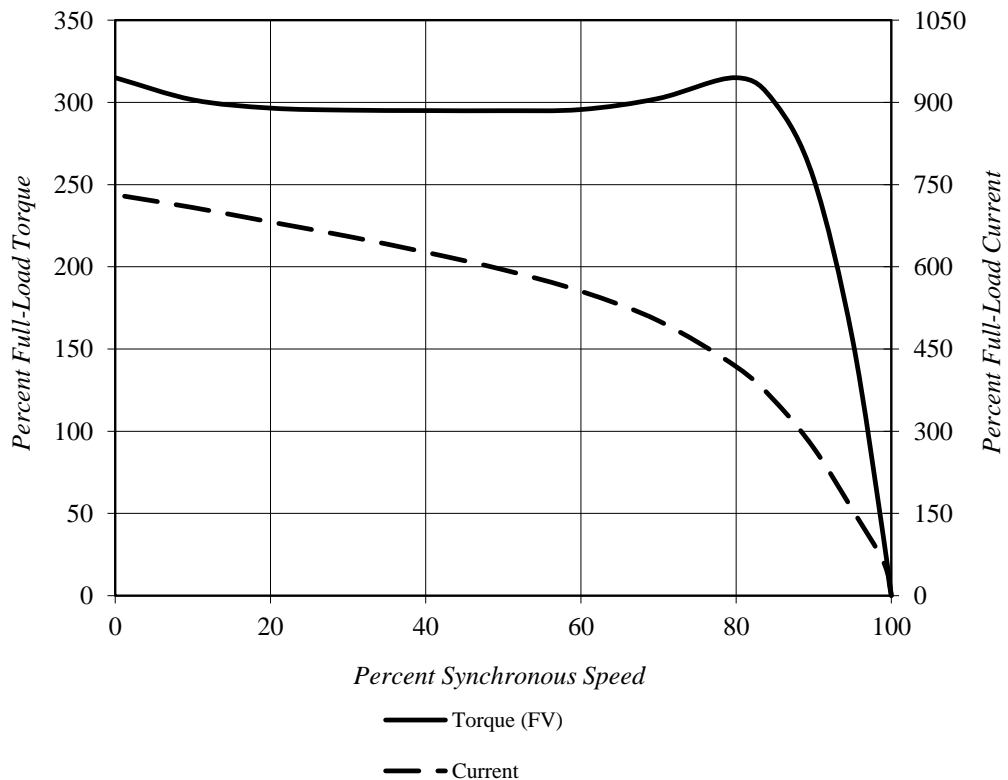
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 14.9 |
| Enclosure: | TEFC | Voltage: | 415 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 970 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |

| | | | |
|-----------------------------|----------|---------------------|-----|
| Locked Rotor Amps: | 109 A | Load Type: | N/A |
| Locked Rotor Torque: | 315% | Starting at: | N/A |
| Breakdown Torque: | 315% | Accel. Time: | N/A |
| Rated Torque: | 55 lb-ft | | |

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

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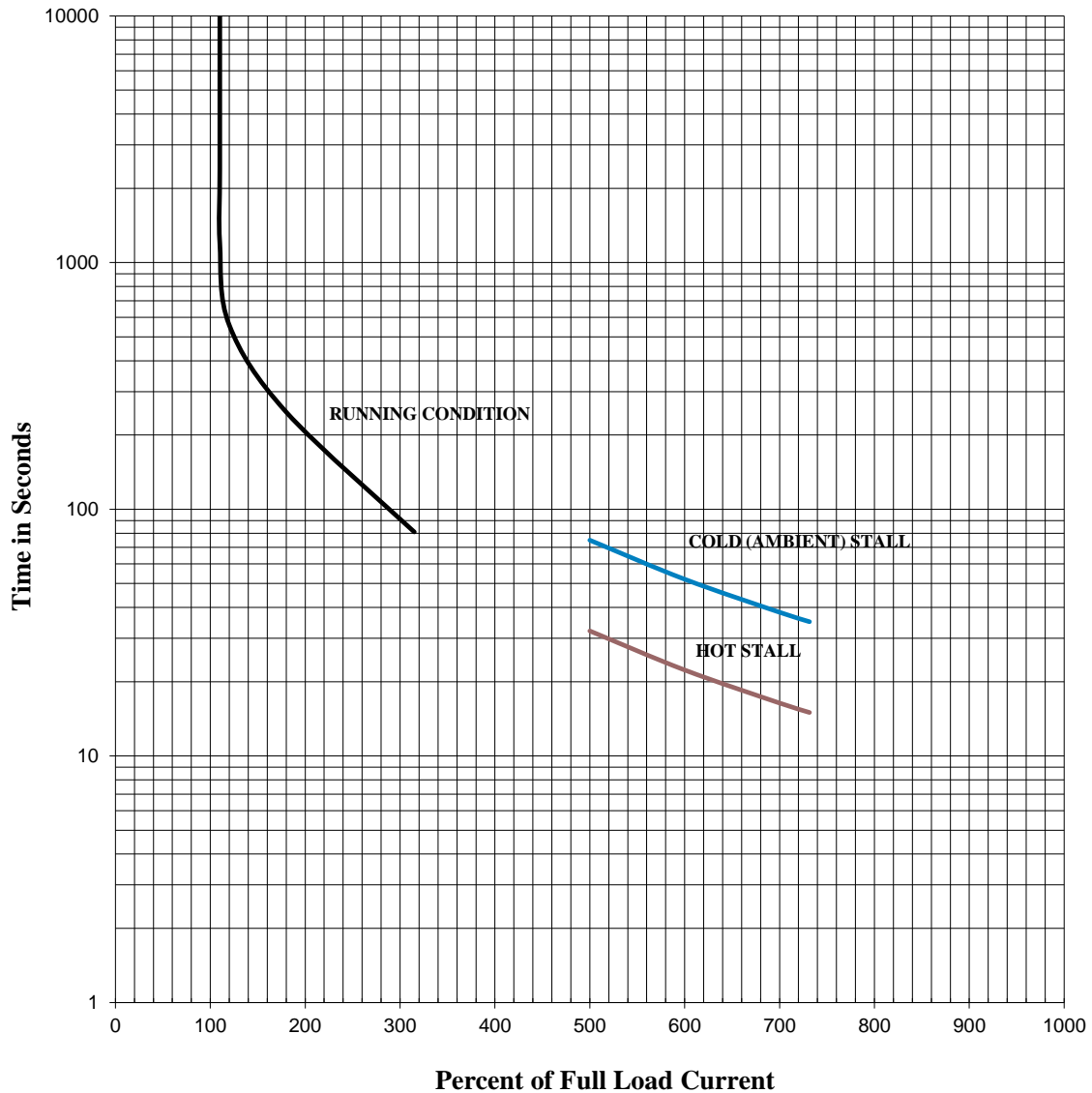
Checked by:

TOSHIBA INTERNATIONAL CORPORATION

Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 14.9 |
| Enclosure: | TEFC | Voltage: | 415 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 970 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

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| | 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: 160M | ENCL: TEFC | FLAMPS: 15.9 | FLRPM: 965 |
| FORM: FBKL1 | S.F.: - | IEC DESIGN N | INSUL CLASS: F |
| TYPE: IKKH | AMB.: 40°C | CODE: - | DUTY: Cont. |
| MODEL No.: Y756SDMW7HS-PL | | kW: 7.5 | |
| NOM. EFF.: 89.1 | MIN. EFF.: - | cosØ 0.80 | |

| AMPERAGE | TORQUES | **BEARINGS: |
|------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 98 | FULL LOAD (lb-ft.): 55 | DRIVE END: REFER TO NP |
| | LOCKED ROTOR (%): 250 | OPPOSITE DRIVE END: REFER TO NP |
| | BREAK DOWN (%): 270 | |

| EFFICIENCY | POWER FACTOR |
|-----------------|-----------------|
| FULL LOAD: 89.5 | FULL LOAD: 80.1 |
| 3/4 LOAD: 89.9 | 3/4 LOAD: 76.5 |
| 1/2 LOAD: 89.0 | 1/2 LOAD: 67.8 |

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).

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DATE: 9/10/2020

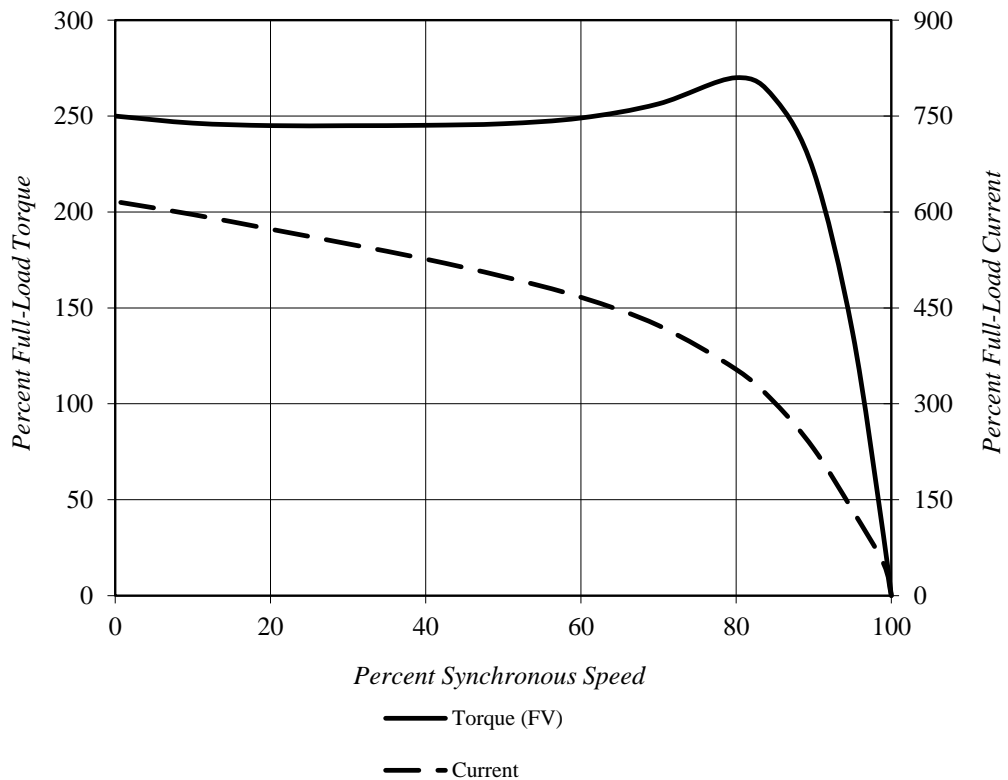
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 15.9 |
| Enclosure: | TEFC | Voltage: | 380 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 965 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |

| | | | |
|-----------------------------|----------|---------------------|-----|
| Locked Rotor Amps: | 98 A | Load Type: | N/A |
| Locked Rotor Torque: | 250% | Starting at: | N/A |
| Breakdown Torque: | 270% | Accel. Time: | N/A |
| Rated Torque: | 55 lb-ft | | |

Design Values



Comments: PROJECT -

D.E.Curve #: GH6Y75 (7.5kW)

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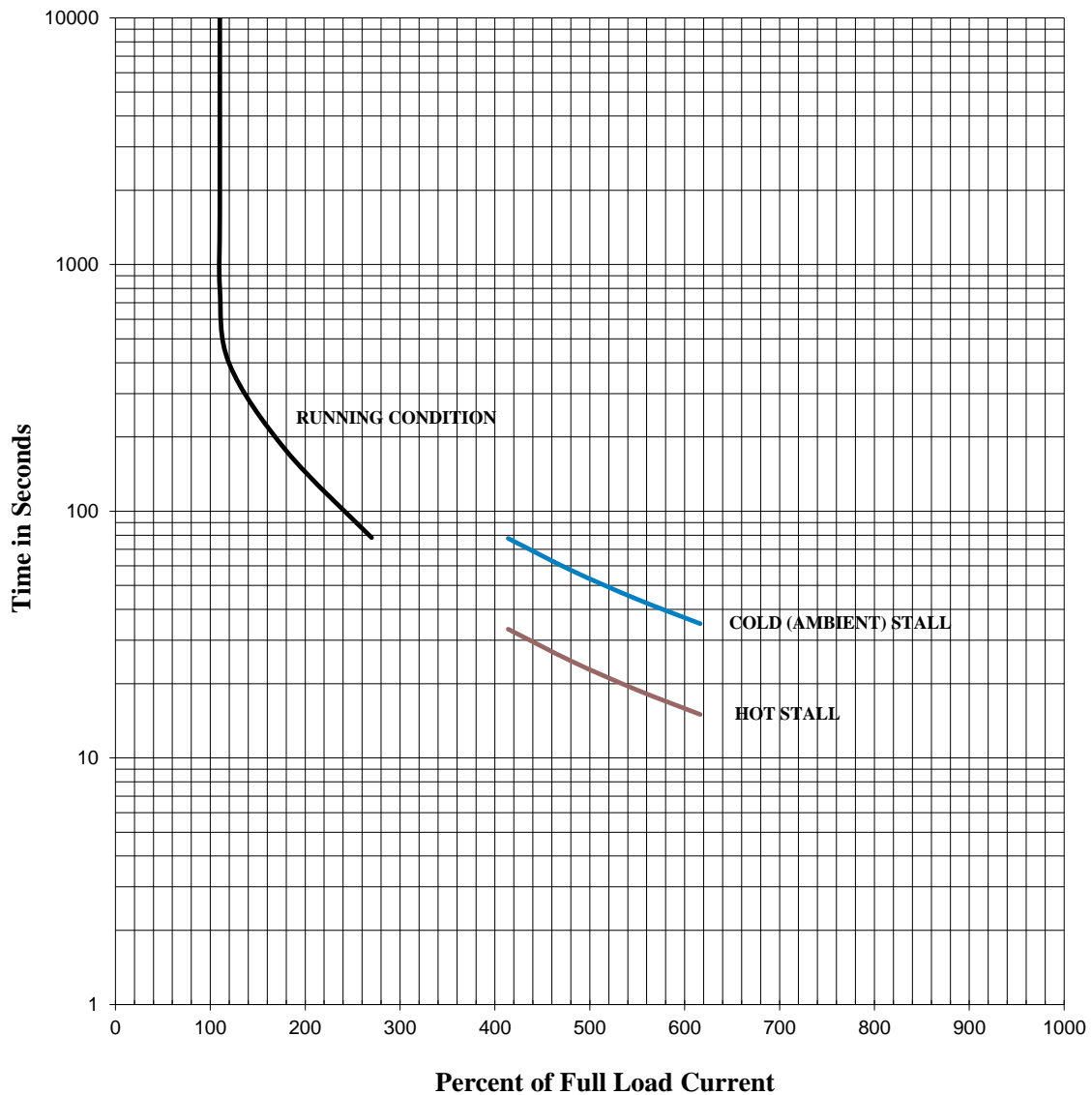
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Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 15.9 |
| Enclosure: | TEFC | Voltage: | 380 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 50 Hz | Ins. Class: | F |
| KW: | 7.5 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 965 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |



Comments: PROJECT -

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| | APPROVED BY | PAA |

CUSTOMER: -
TIC SR No.: -

| MOTOR NAMEPLATE DATA | | | |
|---------------------------|--------------|----------------|----------------|
| H.P.: 10 | VOLTS: 460 | 3 PH / 60 Hz | S. RPM: 1200 |
| FRAME: 160M | ENCL: TEFC | FLAMPS: 13.5 | FLRPM: 1170 |
| FORM: FBKL1 | S.F.: 1.15 | NEMA DESIGN: A | INSUL CLASS: F |
| TYPE: IKKH | AMB.: 40°C | CODE: K | DUTY: Cont. |
| MODEL No.: Y756SDMW7HS-PL | | KW: 7.5 | |
| NOM. EFF.: 91.0 | MIN. EFF.: - | P.F.: 76.0 | |

| AMPERAGE | TORQUES | **BEARINGS: |
|-------------------|------------------------|---------------------------------|
| LOCKED ROTOR: 106 | FULL LOAD (lb-ft.): 45 | DRIVE END: REFER TO NP |
| | LOCKED ROTOR (%): 335 | OPPOSITE DRIVE END: REFER TO NP |
| | BREAK DOWN (%): 310 | |

| EFFICIENCY | POWER FACTOR |
|-----------------|-----------------|
| FULL LOAD: 91.4 | FULL LOAD: 76.3 |
| 3/4 LOAD: 91.0 | 3/4 LOAD: 71.2 |
| 1/2 LOAD: 89.0 | 1/2 LOAD: 60.7 |

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: 9/10/2020

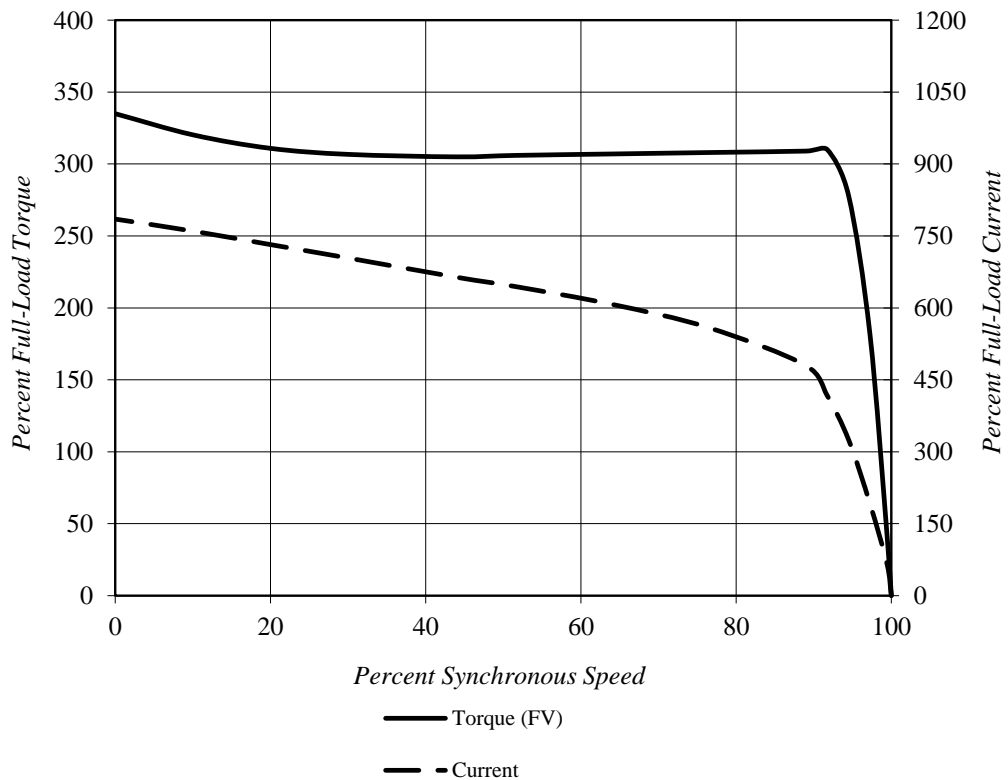
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 13.5 |
| Enclosure: | TEFC | Voltage: | 460 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 60 Hz | Ins. Class: | F |
| HP: | 10 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 1170 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |

| | | | |
|-----------------------------|----------|---------------------|-----|
| Locked Rotor Amps: | 106 A | Load Type: | N/A |
| Locked Rotor Torque: | 335% | Starting at: | N/A |
| Breakdown Torque: | 310% | Accel. Time: | N/A |
| Rated Torque: | 45 lb-ft | | |

Design Values



Comments: PROJECT -

D.E. Curve #: GH6Y75 (7.5kW)

Prepared by: Zichao Xie

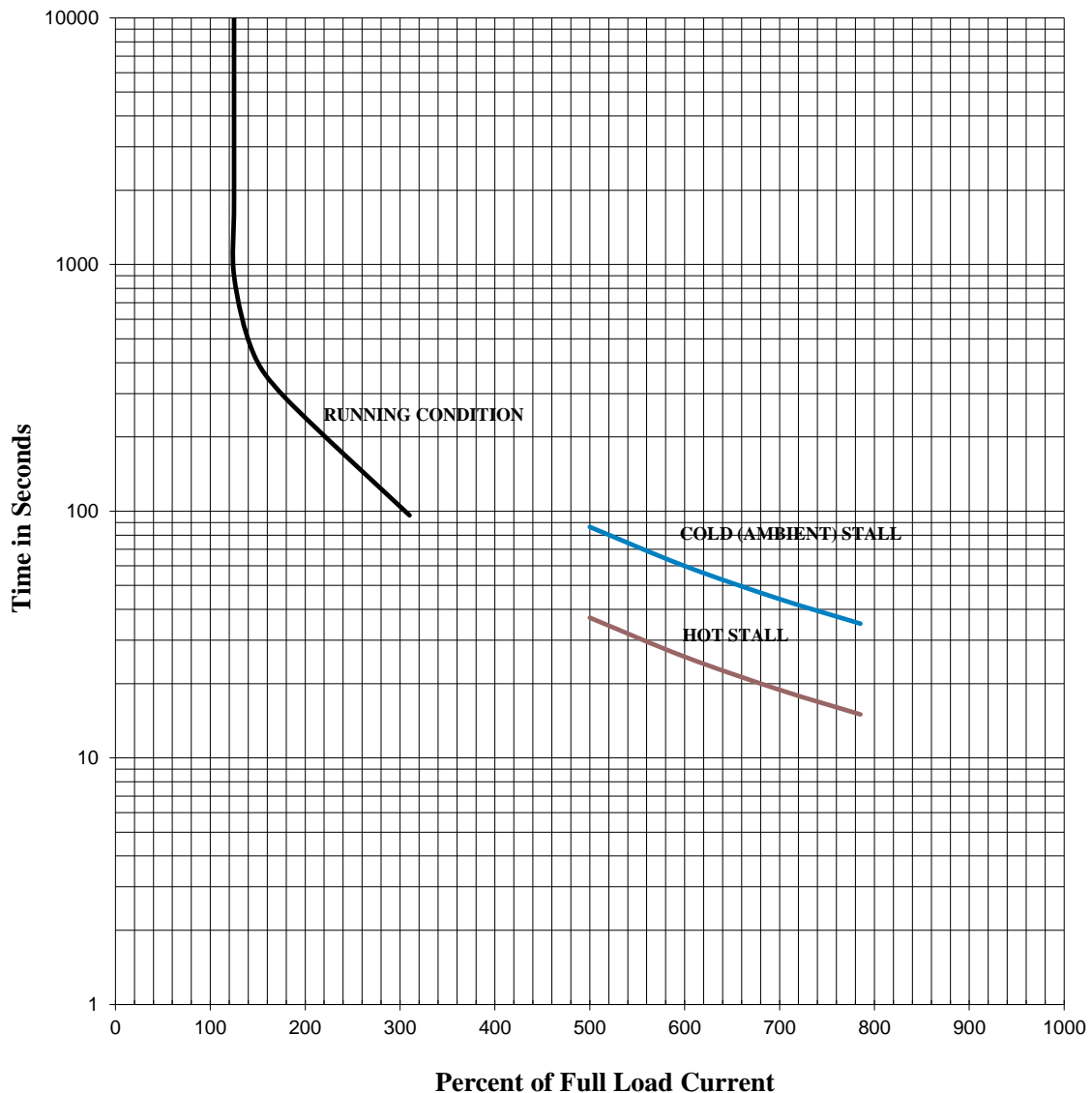
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Thermal Limit & Acceleration Curves

Design Values (For Reference Only)

| | | | | | |
|-------------------|----------------|-----------------------|------------------------|--------------------|----------------|
| Model #: | Y756SDMW7HS-PL | | | FLAmps: | 13.5 |
| Enclosure: | TEFC | Voltage: | 460 V | Frame: | 160M |
| Pole: | 6 | Frequency: | 3 PH / 60 Hz | Ins. Class: | F |
| HP: | 10 | Rotor Inertia: | 2.9 lb-ft ² | Date: | 9/10/2020 |
| FLRPM: | 1170 | Load Inertia: | N/A | File: | GH6Y75 (7.5kW) |



Comments: PROJECT -

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