

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: Nortek
TIC SR No.: TIR-49034

80 AMPS @ 208V

MOTOR NAMEPLATE DATA			
H.P.: 30	VOLTS: 230/460	3 PH / 60 Hz	S. RPM: 1800
FRAME: 286T	ENCL: TEAO	FLAMPS: 74/37	FLRPM: 1770
FORM: ECK1	S.F.: 1.15	NEMA DESIGN: B	INSUL CLASS: F
TYPE: TKKH	AMB.: 40°C	CODE: G	DUTY: Cont.
MODEL No.: 4OA030L1ZVS210 REV1		kW: 22	
NOM. EFF.: 93.6	MIN. EFF.:	P.F.: 81.5	

AMPERAGE	TORQUES	**BEARINGS:
LOCKED ROTOR: 474/237	FULL LOAD (lb-ft.): 89	DRIVE END: REFER TO NP
	LOCKED ROTOR (%): 190	OPPOSITE DRIVE END: REFER TO NP
	BREAK DOWN (%): 300	

EFFICIENCY	POWER FACTOR
FULL LOAD: 93.8	FULL LOAD: 81.6
3/4 LOAD: 93.2	3/4 LOAD: 78.3
1/2 LOAD: 91.5	1/2 LOAD: 70.1

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).
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CERTIFIED BY: A. Guerrettaz

DATE: 12/16/2024

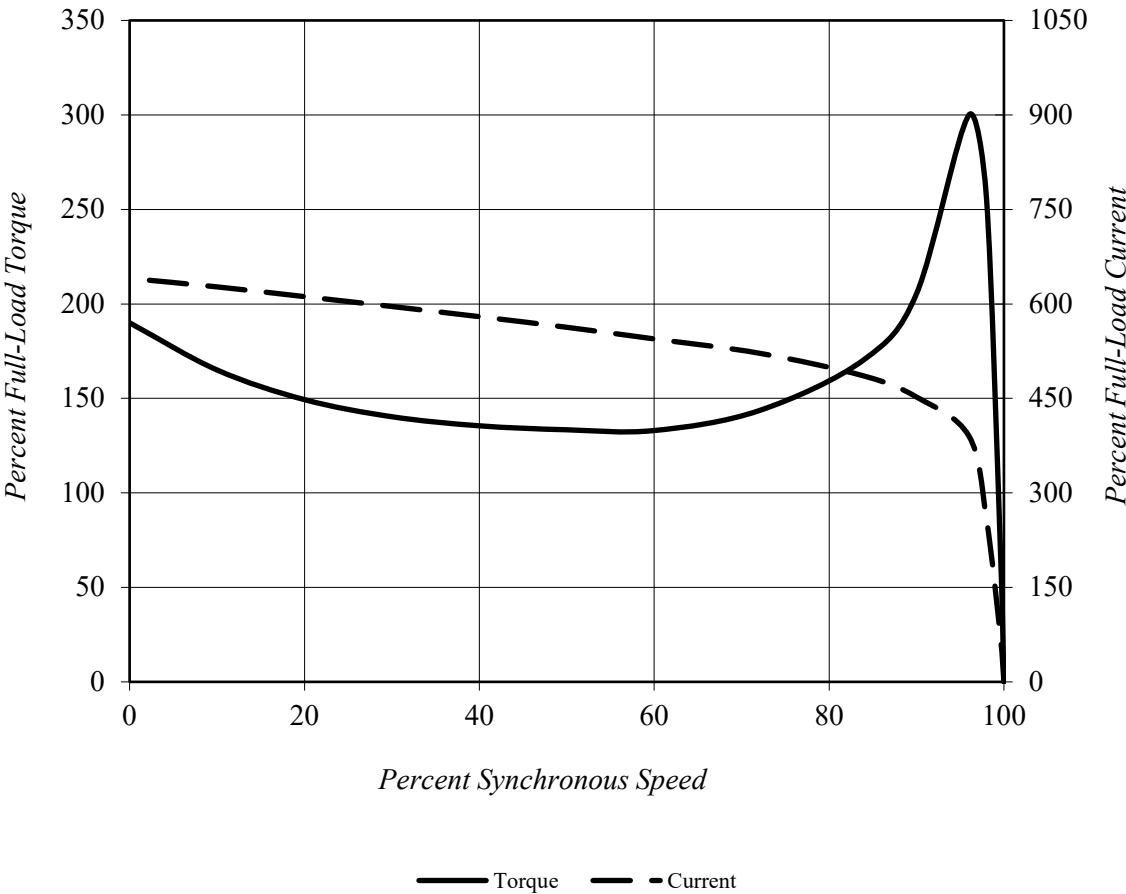
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Speed Torque/Current Curve

Model #:	4OA030L1ZVS210 REV1			FLAmps:	74/37 A
Enclosure:	TEAO	Voltage:	230/460 V	Frame:	286T
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	5.7 lb-ft ²	Date:	12/16/2024
FLRPM:	1770	Load Inertia:	N/A	File:	KH4030_REV1

Locked Rotor Amps:	474/237 A	Load Type:	N/A
Locked Rotor Torque:	190%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	89 lb-ft		

Design Values



Comments: PROJECT TIR-49034

D.E.Curve #: KH4030_REV1

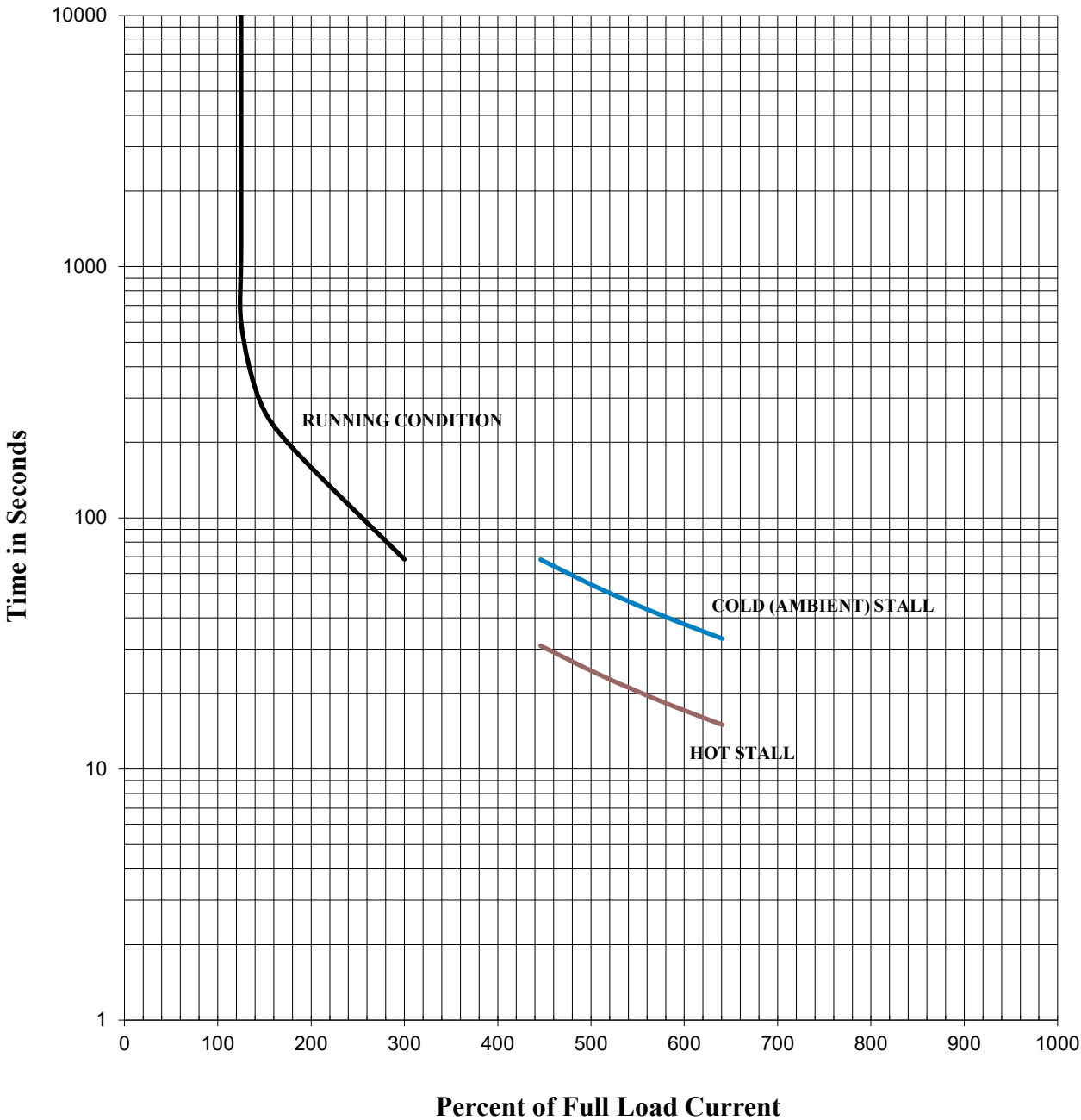
Prepared by: A. Guerrettaz

Checked by:

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Thermal Limit Curve Design Values (For Reference Only)

Model #:	4OA030L1ZVS210 REV1			FLAmps:	74/37 A
Enclosure:	TEAO	Voltage:	230/460 V	Frame:	286T
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	5.7 lb-ft ²	Date:	12/16/2024
FLRPM:	1770	Load Inertia:	N/A	File:	KH4030_REV1



Comments: PROJECT TIR-49034

D.E.Curve #: KH4030_REV1

Prepared by: A. Guerrettaz

Checked by:

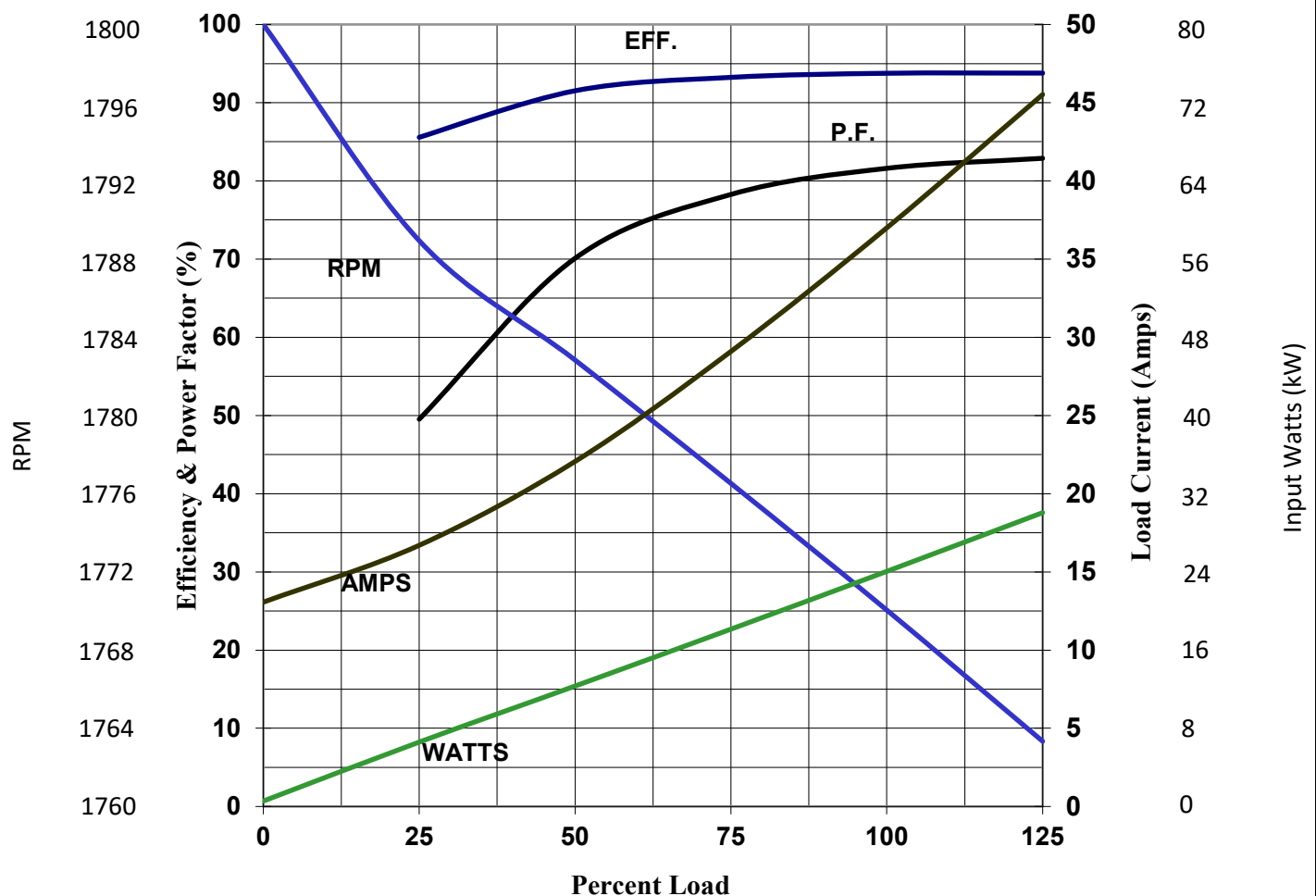
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Performance Curve

Design Values (For Reference Only)

Model #:	4OA030L1ZVS210 REV1			FLAmps:	74/37 A
Enclosure:	TEAO	Voltage:	230/460 V	Frame:	286T
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	5.7 lb-ft ²	Date:	12/16/2024
FLRPM:	1770	Load Inertia:	N/A	File:	KH4030_REV1

Locked Rotor Amps:	474/237 A	Load Type:	N/A
Locked Rotor Torque:	190%	Starting at:	N/A
Breakdown Torque:	300%	Accel. Time:	N/A
Rated Torque:	89 lb-ft		



Comments: PROJECT TIR-49034

D.E. Curve #: KH4030_REV1

Prepared by: A. Guerrettaz

Checked by: