

TOSHIBA INTERNATIONAL CORPORATION

Industrial Division / Houston Motor Plant

**SQUIRREL CAGE INDUCTION MOTOR
PERFORMANCE SPECIFICATIONS**

INDEX	MPCF-1033
SHEET NO.	1 of 1
ISSUED	11/08/96
SUPERSEDES	10/06/95
REVISION	1
WRITTEN BY	R. EVANS
APPROVED BY	Jay Bugbee

Customer Tag:

CUSTOMER:

TIC SR No.:

Customer PO:

MOTOR NAMEPLATE DATA

H.P.: 30	VOLTS: 575	3 Ø / 60	Hz	S. RPM: 1800
FRAME: 286TC	ENCL: TEFC	FLAMPS: 29.2		FLRPM: 1770
FORM: FCKL1	S.F.: 1.15	NEMA DESIGN: B		INSUL CLASS: F
TYPE: TKKH	AMB.: 40C	CODE: G		DUTY: CONT.
MODEL No.: 0304XSSC42A-P		kW: 22		Serial No.:
NOM. EFF.: 93.6	MIN. EFF.:	P.F.: 83.0		

AMPERAGELocked Rotor: **172****TORQUES**

FULL LOAD (lb-ft.): **89.0**
LOCKED ROTOR (%): **188**
BREAK DOWN (%): **294**

**** BEARINGS:**

Drive End: **6310C3**
Opposite Drive End: **6310C3**

EFFICIENCY (%)

FULL LOAD: **93.8**
3/4 LOAD: **93.3**
1/2 LOAD: **91.7**

POWER FACTOR (%)

FULL LOAD: **83.7**
3/4 LOAD: **81.0**
1/2 LOAD: **73.8**

ALL CHARACTERISTICS ARE AVERAGE EXPECTED VALUES BASED UPON RATED VOLTAGE,
FREQUENCY AND SINEWAVE POWER INPUT.

* TEMPERATURE RISE WILL BE CONSISTENT WITH INSULATION, AMBIENT AND SERVICE FACTOR AS
DEFINED BY NEMA-MG-12.43 OR -20.40.

** BEARINGS ARE THE ONLY RECOMMENDED SPARE PART(S).

CERTIFIED BY:
DATE:

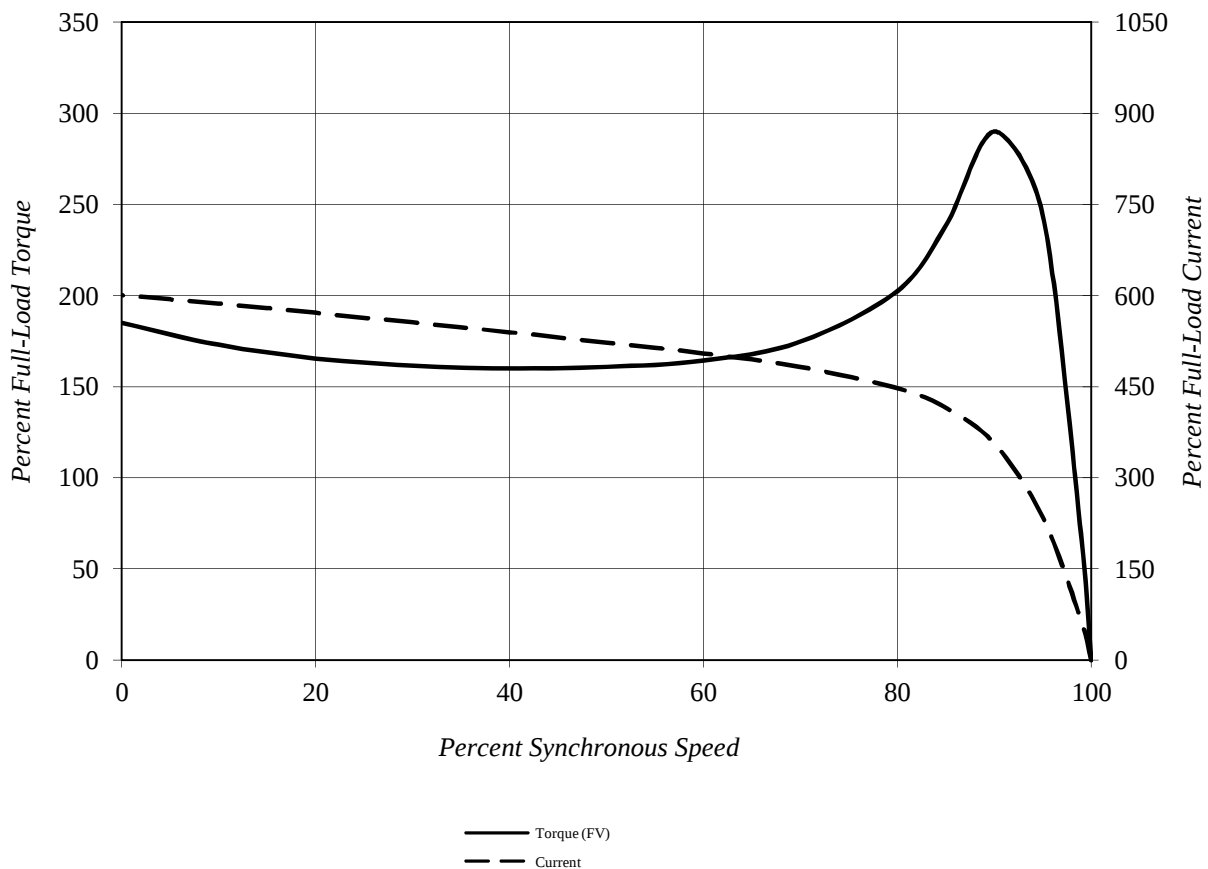
TOSHIBA INTERNATIONAL CORPORATION

Speed Torque/Current Curve

Model #:	0304XSSC42A-P			FLAmps:	29
Enclosure:	TEFC	Voltage:	575 V	Frame:	286TC
Pole:	4	Frequency:	3 PH / 60 Hz	Ins. Class:	F
HP:	30	Rotor Inertia:	5.7 lb-ft ²	Date:	16-Aug-2011
FLRPM:	1770	Load Inertia:	N/A	File:	KH4030C

Locked Rotor Amps:	174	Load Type:	N/A
Locked Rotor Torque:	185%	Starting at:	N/A
Breakdown Torque:	290%	Accel. Time:	N/A
Rated Torque:	89 lb-ft		

Design Values



Comments: _____

D.E. Curve #: _____

Prepared by: Van Truong

Checked by:

TOSHIBA

Reliability in Motion

TOSHIBA INTERNATIONAL CORPORATION

INDUSTRIAL DIVISION

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HOUSTON TX 77240

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(800) 231-1412

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SPARE PARTS (RECOMMENDED)

OTHER THAN THE GREASE USED FOR RE-GREASABLE BEARINGS, **TOSHIBA** ADVISES THAT THERE ARE NO "USE" PARTS. THE ONLY INSURANCE SPARES THAT **TOSHIBA** SUGGESTS FOR THESE SQUIRREL CAGE INDUCTION MOTORS ARE INDUSTRY STANDARD, AND COMMERCIALY AVAILABLE ANTI-FRICTION BEARINGS, AS NOTED BELOW.

MOTOR COMPONENTS (SUCH AS TERMINAL BOXES, FAN COVERS, MACHINED PARTS) ARE AVAILABLE UPON SPECIAL REQUEST. IN THIS CASE, PLEASE ADVISE OUR ORDER ENTRY DEPARTMENT THE MODEL AND SERIAL NUMBERS (FOUND ON THE MOTOR NAMEPLATE) , AND A DESCRIPTION OF THE COMPONENT REQUIRED. THEY WILL THEN FURNISH THE CURRENT PART NUMBER, PRICE AND AVAILABILITY.

(NOTE: OUR INTERNAL PART NUMBERS ARE SUBJECT TO CHANGE WITHOUT NOTICE, AND ARE NOT PUBLISHED).

PLEASE ADVISE IF YOU HAVE ANY QUESTIONS.

CUSTOMER:

PURCHASE ORDER #

Customer Tag:

TOSHIBA FILE #

MODEL # **0304XSSC42A-P**

HP / RPM / ENCL / FRAME: **30** / **1800** / **TEFC** / **286TC**

DRIVE END BEARING: **6310C3**

OPPOSITE DRIVE END BEARING: **6310C3**

Prepared By:

Date:

Motor Connection Diagram

3 Leads - Delta Connection



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.
If multiple cables represent a single lead, each one
of them will be labeled with the appropriate lead number.