TYPE HS SQUIRREL CAGE INDUCTION MOTOR
ENCLOSURE – TOTALLY ENCLOSED FAN COOLED
AND EXPLOSION PROOF
BEARING – ANTI–FRICTION AND SOLID SLEEVE

NOTES

A– THIS DRAWING IS NOT TO BE REGARDED AS INDICATING EXACT DETAILS OF CONSTRUCTION. IT IS PROPERLY DIMENSIONED FOR ERECTION PURPOSES ONLY.

B– AIR INLET OPENINGS ARE ON BOTH ENDS OF MOTOR. WHEN INSTALLING MOTOR, AVOID LOCATING MOTOR SO THAT ADJACENT STRUCTURES ARE CLOSER THAN 12 INCHES TO MOTOR ENDS. ALSO THAT NO ADJACENT STRUCTURE CAUSES EXHAUST AIR TO BE DIRECTED INTO INLET OPENINGS.

C– MOUNTING BOLTS, DOWELS AND COUPLING NOT SUPPLIED BY TOSHIBA UNLESS SPECIFICALLY ORDERED.

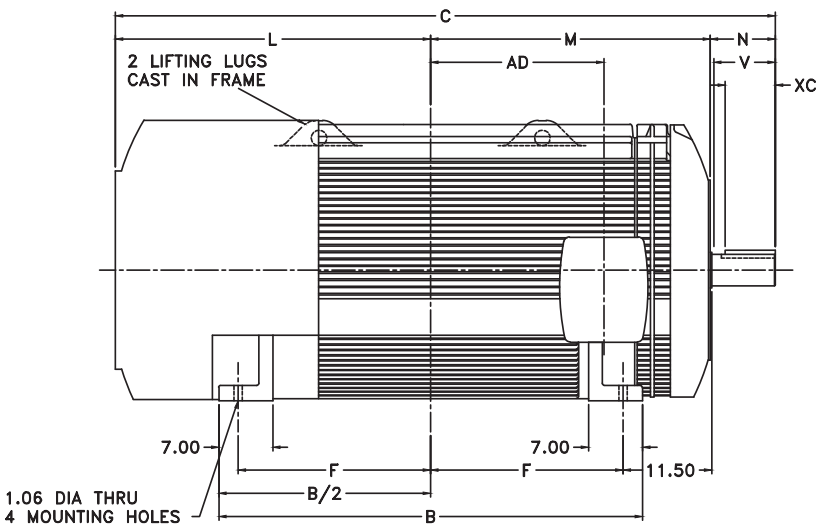
D– EACH FOOT MUST BE MOUNTED ON A BASE EQUAL TO OR LARGER THAN THE PAD AREA.

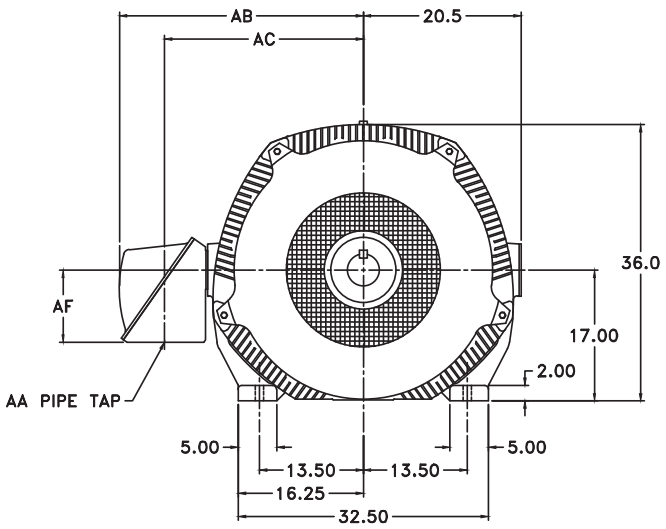
E– SLEEVE BEARINGS HAVE 0.50 MINIMUM ENDPLAY. COUPLING ENDFLOAT SHOULD BE 0.19 MAXIMUM WITH ROTOR LOCATED ON MECHANICAL CENTERLINE.

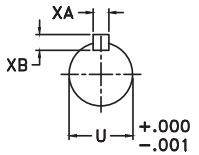
F– FOR MOUNTING OF MOTOR USE .875–9 THD/INCH HOLD DOWN BOLTS.

G– NON DRIVE END BEARING INSULATED.

DEVICES







END VIEW OF SHAFT

FRAME SIZE	REAR SHAFT EXTENSION												RECOMMENDED COUPLING BORE		APPROX WEIGHT
	U	KEY SIZE XA	KEY SIZE XB	KEY SIZE XC	N	V	B	C	F	L	M	AD	MIN.	MAX.	
6809H	2.875	.750	.750	4.00	5.94	5.50	45.0	73.20	20.00	35.94	31.32	17.50	2.8730	2.8740	9400
6809L	4.125	1.000	1.000	6.50	8.44	8.00	45.0	75.70	20.00	35.94	31.32	17.50	4.1215	4.1230	10090
6810H	2.875	.750	.750	4.00	5.94	5.50	50.0	78.20	22.50	38.44	33.82	20.00	2.8730	2.8740	10430
6810L	4.125	1.000	1.000	6.50	8.44	8.00	50.0	80.70	22.50	38.44	33.82	20.00	4.1215	4.1230	11230
6811H	2.875	.750	.750	4.00	5.94	5.50	55.0	83.20	25.00	40.94	36.32	22.50	2.8730	2.8740	11610
6811L	4.125	1.000	1.000	6.50	8.44	8.00	55.0	85.70	25.00	40.94	36.32	22.50	4.1215	4.1230	12350

CONDUIT BOX							
FAN COOLED – STANDARD				EXPLOSION PROOF			
AA	AB	AC	AF	AA	AB	AC	AF
3.00	31.68	25.81	9.38	3.00	35.00	26.50	13.00

ISSUE 1 STANDARD REVISIONS

PRELIMINARY SHAFT AND MOUNTING ONLY

G.O. _____ S.O. _____ CUST. ORDER _____

CUST. _____

RATING _____

PER: _____ DATE _____

TOSHIBA INDUSTRIAL PRODUCTS CANADA, STONEY CREEK

THIRD ANGLE PROJECTION

TOSHIBA INDUSTRIAL PRODUCTS CANADA

TOSHIBA

TITLE TYPE HS MOTOR FRAME 6800
OUTLINE – TEFC/TEXP ENCLOSURE

DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED | SCALE: N.T.S. | SHEET: OF

DRAWN	DATE	APP.BY	DATE
N.WEST	5/15/15		
CHECKED		APP.BY	
CHECKED		APP.BY	

E10D120

TOSHIBA

Issued Date		Transmit #	
Issued By		Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 9008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900 hp	671 kW	8	893 rpm	6811L	4000 V	60	3	114.9 A
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEXP	55	F	1.15	Cont.	95.6	B	F	40

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	900	671	114.9	95.6	88.4
¾ Load	675	503	87.2	95.5	87.5
½ Load	450	336	62.0	94.9	82.8
¼ Load	225	168			
No Load			29.5		4.9
Locked Rotor			749.3		16.2

Torque				Rotor wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
5305	72	72	205	1376

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	**Hot**		**DE**	**NDE**	**(lbs)**
27	27	-	N222	6222-C3	12500

*Bearings are the only recommended spare part(s).

Motor Options:

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering		Doc. Written By		Doc.# / Rev	
Engr. Date		Doc. Approved By		Doc. Issued	

TOSHIBA

Issued Date		Transmit #	
Issued By		Issued Rev	

NAMEPLATE DATA

Model: 9008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	8	893	6811L	4000	60	3	114.92
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEXP	55	F	1.15	Cont.	95.6	B	F	40

Type: HSB

Form:

Drive End Bearing: N222

Non-Drive End Bearing: 6222-C3

Power Factor: 88.4

Max Safe RPM:

Comments 1:

Comments 2:

Comments 3:

Comments 4:

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering		**Doc. Written By**	D. Suarez	**Doc.# / Rev**	MPCF-1120 / 0
Engr. Date		**Doc. Approved By**	M. Campbell	**Doc. Issued**	6/8/2011

TOSHIBA

Issued Date		Transmit #	
Issued By		Issued Rev	

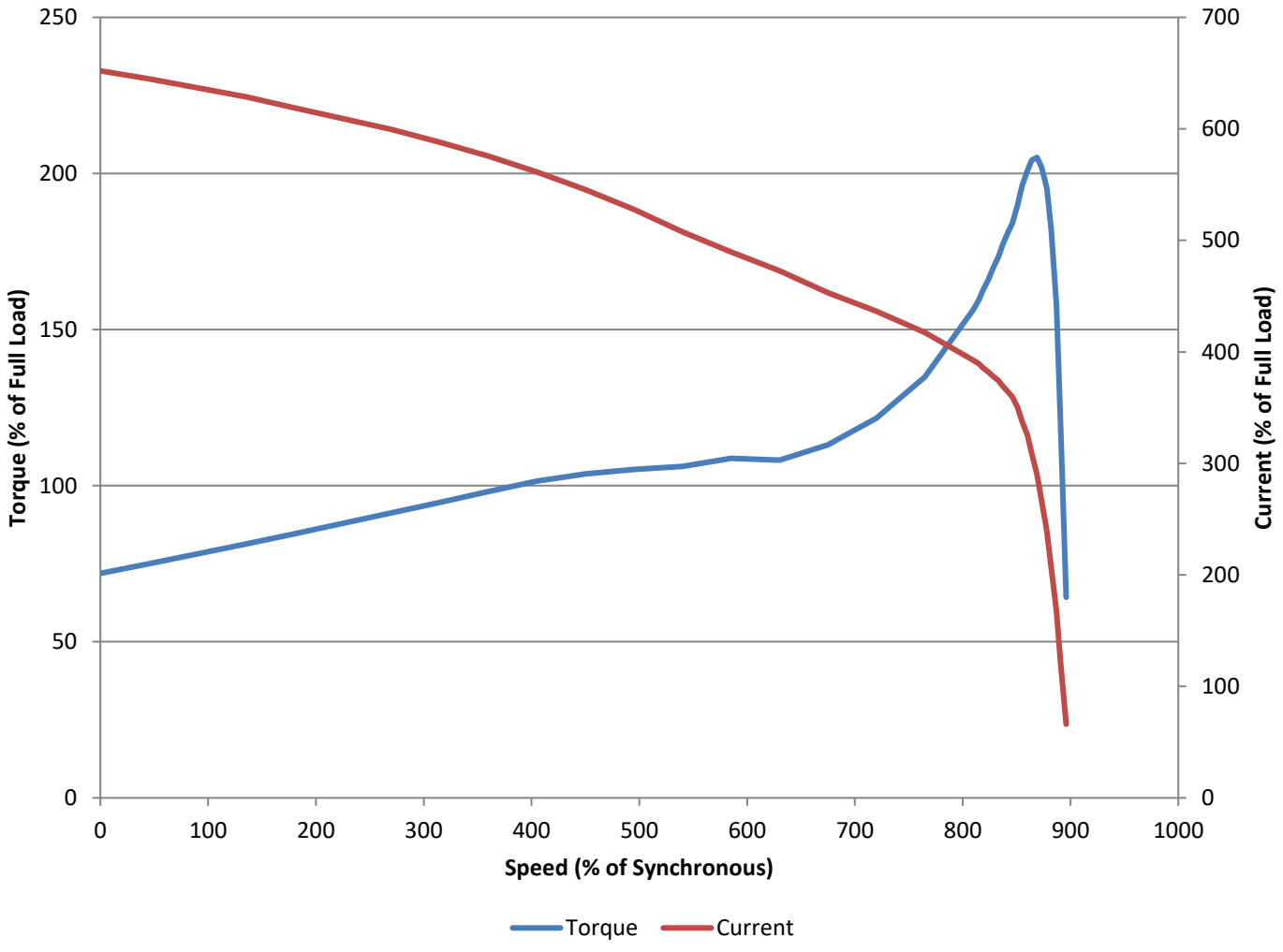
SPEED TORQUE/CURRENT CURVE

Model: 9008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	8	893	6811L	4000	60	3	114.92
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEXP	55	F	1.15	Cont.	95.6	B	F	40

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
657.26	1376	5304.97	71.9495115	71.9495115	205.1361271

Design Values



Customer			wk² Load Inertia (lb-ft²)	
Customer PO			Load Type	
Sales Order			Voltage (%)	100
Project #			Accel. Time	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering		Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/0
Engr. Date		Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

TOSHIBA

Issued Date		Transmit #	
Issued By		Issued Rev	

SPARE PARTS LIST*

Model: 9008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	8	893	6811L	4000	60	3	114.92
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEXP	55	F	1.15	Cont.	95.6	B	F	40

Bearings DE	N222
Bearings NDE	6222-C3

*Bearings are the only recommended spare part(s).

Other than the grease used for regreasable bearings and the oil used for oil-lubricated 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 commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering		**Doc. Written By**	D. Suarez	**Doc.# / Rev**	MPCF-1125 / 0
Engr. Date		**Doc. Approved By**	M. Campbell	**Doc. Issued**	6/8/2011