

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, AVIOID 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

		REAR SHAFT EXTENSION											RECOMM		<u> </u>
FRAME SIZE	U	XA	KEY SIZE	xc	N	٧	В	С	F	L	М	AD	MIN.	MAX.	APPROX WEIGHT
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

55.0

85.70

25.00

40.94

36.32 | 22.50 | 4.1215 | 4.1230 | 12350

			CONDU	IT BOX			
FAN (	COOLED	- STAN	IDARD	E:	XPLOSIO	N PROO	F
AA	AB	AC	AF	AA	AB	AC	AF
3.00	31.68	25.81	9.38	3.00	35.00	26.50	13.00

1.000

6.50

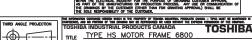
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8.00



END VIEW OF SHAFT

PREL	IMINARY	SHAFT	AND	MOUNT	ING OI	NLY
G.O	s.o.		CUS1	ORDER _		
CUST						
RATING						
PER:		D/	ATE			
TOSHIBA	INDUSTRI	AL PROD	OUCTS	CANADA,	STONE	Y CREEK



OUTLINE - TEFC/TEXP ENCLOSURE PRED SCALE: N.T.S. SHEET:

DATE APPLEY DATE

APPLEY DATE

E10D120

6811L

4.125 | 1.000



Issued Date	Transmit #	
Issued By	Issued Rev	

## TYPICAL MOTOR PERFORMANCE DATA

Model: 7008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700 hp	522 kW	8	893 rpm	6810L	4000 V	60	3	89.9 A
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	95.1	В	F	40

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	700	522	89.9	95.1	88.4
¾ Load	525	391	68.5	95	87.1
½ Load	350	261	49.1	94.2	81.9
1/4 Load	175	130			
No Load			24.5		5.1
Locked Rotor			592.7		16.3

	Torque	e		Rotor wk <sup>2</sup>
Full Load	Locked Rotor	Pull Up	Break Down	Inertia
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)
4126	72	72	211	1101

Safe Stall	Safe Stall Time(s) Sound		Rearin	Bearings*		
Cold	Hot	Pressure	Beal III		Approx. Motor Weight	
Join	1101	dB(A) @ 1M	DE	NDE	(lbs)	
28	28	-	N222	6222-C3	11500	

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

Customer PO Sales Order			
Sales Order	Customer		
	Customer PO		
Project #	Sales Order		
	Project #		

Tag:

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## **NAMEPLATE DATA**

Model: 7008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700	521.983	8	893	6810L	4000	60	3	89.86
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	95.1	В	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	
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Sales Order	
Project #	
Tag:	

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Engineering		Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1120 / 0		
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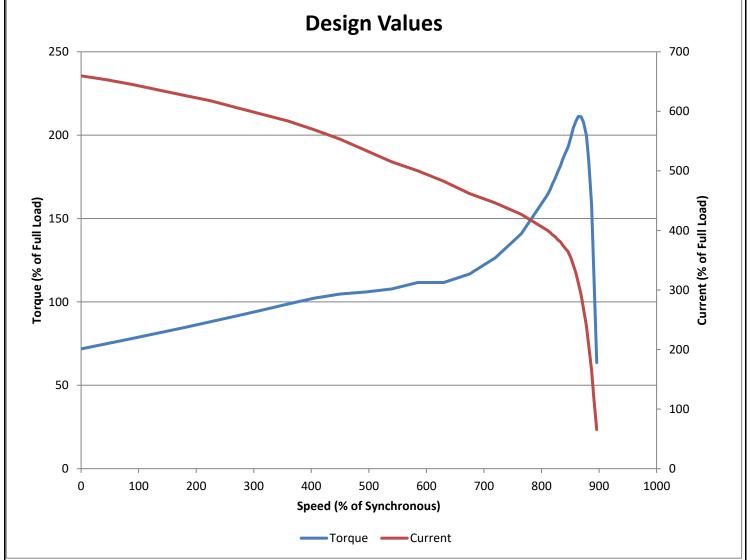


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## SPEED TORQUE/CURRENT CURVE

Model: 7008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700	521.983	8	893	6810L	4000	60	3	89.86
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	95.1	В	F	40
Locked Rotor	Rotor wk <sup>2</sup>				Torque			
Amps	Inertia	Full Load	I Locked Rotor Pull Up		)	Break	Down	
Allips	(lb-ft²)	(lb-ft)	(%	<b>5</b> )	(%)		(%	<b>%)</b>
519.92	1101	4126.24	71.8361026		71.8361026		211.1702179	



Customer	wk² Load Inertia (Ib-	t²)
Customer PO	Load Ty	ре
Sales Order	Voltage	<b>%)</b> 100
Project #	Accel. Ti	ne

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## **SPARE PARTS LIST\***

Model: 7008XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
700	521.983	8	893	6810L	4000	60	3	89.86
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	95.1	В	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:

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