

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	E 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

	CONDUIT 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

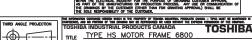
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8.00



END VIEW OF SHAFT

PREL	IMINARY	SHAFT	AND	MOUNT	ING O	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: 9006XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900 hp	671 kW	6	1191 rpm	6811L	4000 V	60	3	116.2 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	900	671	116.2	95.1	87.3
¾ Load	675	503	87.6	94.8	87.9
½ Load	450	336	61.0	93.7	85.4
1/4 Load	225	168			
No Load			24.6		8.8
Locked Rotor			748.1		20.6

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
3953	101	101	193	1046		

Safe Stall	Time(s)	Sound	Bearings*		Approx. Motor Weight
Cold	Hot	Pressure	Bealin	ys	Approx. Motor Weight
Oolu	1100	dB(A) @ 1M	DE	NDE	(lbs)
28	25	-	N222	6222-C3	12500

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

Motor	Options	:
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Customer	
Customer PO	
Sales Order	
Project #	

Tag:

7 III Gridi deteriotice die di	rerage expected values.					
	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.					
Engineering		Doc. Written By		Doc.# / Rev		
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NAMEPLATE DATA

Model: 9006XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	6	1191	6811L	4000	60	3	116.2
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:	87.3	
Max Safe RPM:		
Comments 1:		
Comments 2:		
Comments 3:		
Comments 4:		

Customer		
Customer PO		
Sales Order		
Project #		
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Engineering		Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1120 / 0
Engr. Date		Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

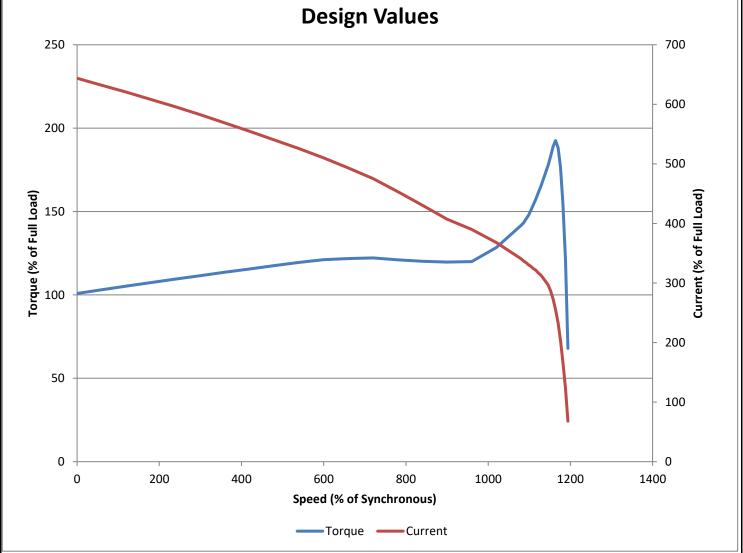
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SPEED TORQUE/CURRENT CURVE

Model: 9006XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	6	1191	6811L	4000	60	3	116.2
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
Looked Deter	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
680.07	1046	3953	100.93	00025	100.930002	25	192.56	05085



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

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SPARE PARTS LIST*

Model: 9006XPAL11E-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
900	671.121	6	1191	6811L	4000	60	3	116.2
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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