

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

- C- WHEN MOUNTING MOTOR, SHIM COMPLETE FOOT PAD AREA.
- D- SLEEVE BEARINGS HAVE 0.50 MINIMUM ENDPLAY. COUPLING ENDFLOAT SHOULD BE 0.19 MAXIMUM WITH ROTOR LOCATED ON MECHANICAL CENTERLINE.
- E- UNLESS OTHERWISE SPECIFIED, CABLE PLATE OF THE MAIN CONDUIT BOX TO BE DRILLED BY CUSTOMER.
- F- FOR MOUNTING OF MOTOR USE 1.25-7 THD/INCH HOLD DOWN BOLTS.
- G- NON DRIVE END BEARING INSULATED.



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		REAF	R SHAFT	EXTENS	SION								RECOMM COUPLIN		
FRAME	U		KEY SIZI		N	V	В	С	F		М	AD	MIN.	MAX.	APPROX
SIZE		XA	XB	XC		·			· ·	_		,,,,		1417 07 11	WEIGHT
686D	4.125	.937	.625	11.75	14.18	13.68	35.0	68.75	14.00	29.50	25.06	10.88			5725
686S	3.375	.937	.625	4.25	5.94	5.44	35.0	60.50	14.00	29.50	25.06	10.88	3.3720	3.3735	5675
686H	2.625	.625	.500	3.50	5.18	4.68	35.0	59.75	14.00	29.50	25.06	10.88	2.6230	2.6240	5650
688D	4.125	.937	.625	11.75	14.18	13.68	43.0	76.75	18.00	33.50	29.06	14.88			7000
688S	3.375	.937	.625	4.25	5.94	5.44	43.0	68.50	18.00	33.50	29.06	14.88	3.3720	3.3735	6950
688H	2.625	.625	.500	3.50	5.18	4.68	43.0	67.75	18.00	33.50	29.06	14.88	2.6230	2.6240	6925

	CONDUIT BOX							
FAN COOLED - ST				STANDARD EXPLOSION PROOF			F	
	AA	AB	AC	AF	AA	AB	AC	AF
	3.00	32.50	26.56	9.38	3.00	35.75	27.50	13.00

PRELIMINARY SHAFT AND MOUNTING ONLY G.O. _ S.O. __ __CUST. ORDER CUST. RATING PER: _ DATE _

TOSHIBA INDUSTRIAL PRODUCTS CANADA, STONEY CREEK



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	CONFIDENCE, A	NO NO PORTION OF THIS	DRAWING MAY BE REPI	ROCUCED OR USED I	NTHOUT THE EXPRE	NAZA - TIPCA MUST BE M SS PERMISSION OF THE CO	ENTHINE MPAKY
	TOSHIE	3A INDUSTRI	AL PRODU	CTS CAN.	ADA	TOSH	IR
_	TITLE	TYPE HS	MOTOR	FRAME	680	10011	
	11	OUTLINE	TEEO	/TEVD E	NOLOC	IDE	

OUTLINE - TEFC/TEXP ENCLOSURE

ONLINGUIS OF NETS

SCALE: N.T.S. SHEET: OF E10D119



Issued Date	Transmit #	
Issued By	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 6003XPQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600 hp	447 kW	2	3571 rpm	688H	4000 V	60	3	72.5 A
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.8	В	Е	40

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	600	447	72.5	94.8	94.4
¾ Load	450	336	53.9	94.5	95.3
½ Load	300	224	36.5	93.4	95.0
1/4 Load	150	112			
No Load			8.5		14.9
Locked Rotor			455.2		20.3

Torque					
Full Load	Locked Rotor	Pull Up	Break Down	Inertia	
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)	
886	96	96	213	174	

Safe Stall	Time(s)	Sound	Bearin	Approx. Motor Weight	
Cold	Hot	Pressure			
		dB(A) @ 1M	DE	NDE	(lbs)
36	32	-	Sleeve	Sleeve	7500

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

Motor	Options	:
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Customer	
Customer PO	
Sales Order	
Project #	

Tag:

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Engineering		Doc. Written By		Doc.# / Rev		
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NAMEPLATE DATA

Model: 6003XPQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447.414	2	3571	688H	4000	60	3	72.48
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.8	В	Е	40

Туре:	HSB	
Form:		
Drive End Bearing:	Sleeve	
Non-Drive End Bearing:	Sleeve	
Power Factor:	94.4	
Max Safe RPM:		
Comments 1:		
Comments 2:		
Comments 3:		
Comments 4:		

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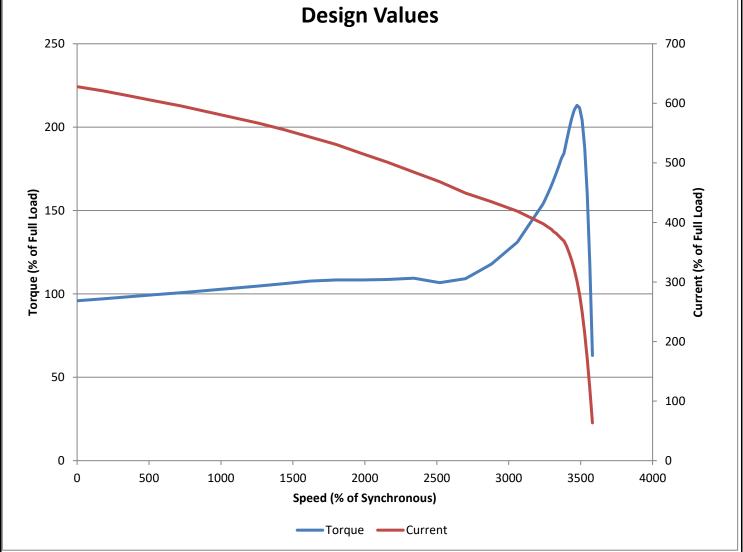


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SPEED TORQUE/CURRENT CURVE

Model: 6003XPQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447.414	2	3571	688H	4000	60	3	72.48
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.8	В	Е	40
Locked Rotor	Rotor wk ²				Torque			
Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	b)	(%)		(%	%)
421.44	174	886.14	95.885	52599	95.885525	99	213.10	28957



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

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Issued By	Issued Rev	

SPARE PARTS LIST*

Model: 6003XPQL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
600	447.414	2	3571	688H	4000	60	3	72.48
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.8	В	Е	40

Bearings DE	Sleeve
Bearings NDE	Sleeve

*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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