

5811U

4.125

1.000

1.000

10.62

12.38

12.12

43.5

76.18

20.00

33.80

30.00

18.50

4.1215 4.1230

TOSHIBA INDUSTRIAL PRODUCTS CANADA, STONEY CREEK

6950

THIRD ANGLE PROJECTION

THE SOLE RESPON	SBUTY	OF THE CUSTOM	ER.]
THE INFORMATION CONTAINED HER CONFIDENCE, AND NO PORTION O	F THIS DR	MINIO MAY BE REPRO	NO GROUD	USED WITH	OUT THE EXPRESS	A - TIPCA MUST BE MAINT. PERMISSION OF THE COMP.	WYY.
TOSHIBA INDUS						TOSHIE	3.
TYPE TYPE	HS	MOTOR	FRAM	1E 5	800	1001111	_
OUTLI	۱E -	- TEFC/	TEXF	EN.	CLOSU	RE	
DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED		LE: N.T.S.	SHE		OF		
N.WEST	DATE 10/9/99	APP.BY		DATE			
CHECKED		APP.BY					
CHECKED		APP.BY					

THESE DRAWINGS ARE PREPARED IN ACCORDANCE WITH THE NORMAL AND ACCEPTED STANI WITHIN THE ELECTRICAL INDUSTRY FOR THE PURPOSE OF OBTAINING CUSTOMER APPROVAL AS PART OF THE MAINING OR PRODUCTION PROCESS. MAY USE OR COMMUNICATION.



Issued Date	Transmit #	
Issued By	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 4503XPAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450 hp	336 kW	2	3574 rpm	5810S	4000 V	60	3	54.5 A
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.5	В	F	40

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450	336	54.5	94.5	94.4
¾ Load	337.5	252	40.8	94	94.9
½ Load	225	168	27.9	92.7	93.9
¼ Load	112.5	84			
No Load			7.6		15.9
Locked Rotor			365.3		19.8

Torque					
Full Load	Locked Rotor	Pull Up	Break Down	Inertia	
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)	
664	96	96	232	130	

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight		
Cold	Hot	Pressure				
		dB(A) @ 1M	DE	NDE	(lbs)	
38	33	-	Sleeve	Sleeve	6500	

*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	in characteristics and artifage expected ratios.					
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Engineering		Doc. Written By		Doc.# / Rev		
Engr. Date		Doc. Approved By		Doc. Issued		



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NAMEPLATE DATA

Model: 4503XPAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	335.5605	2	3574	5810S	4000	60	3	54.52
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.5	В	F	40

Type:	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:		

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	

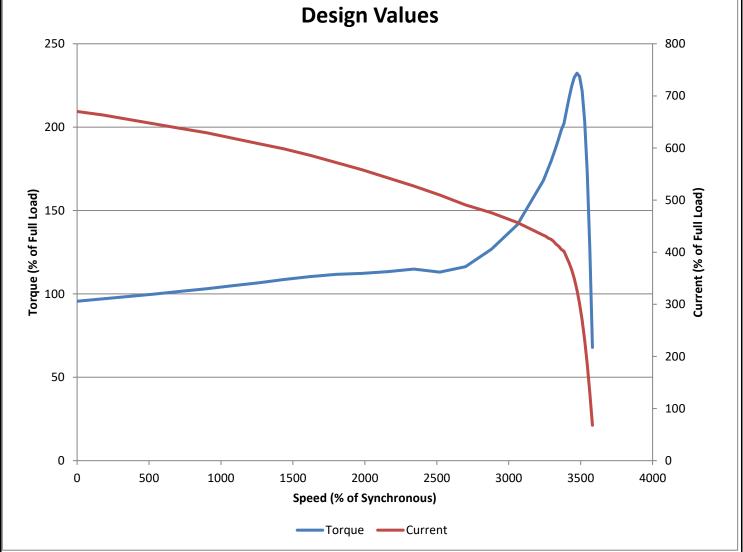
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SPEED TORQUE/CURRENT CURVE

Model: 4503XPAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	335.5605	2	3574	5810S	4000	60	3	54.52
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.5	В	F	40
Leeleed Deter	Rotor wk ²	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
338.27	130	664.12	95.633	31928	95.633319	28	232.39	062537



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

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



Issued Date	Transmit #	
Issued By	Issued Rev	

SPARE PARTS LIST*

Model: 4503XPAL11F-C

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	335.5605	2	3574	5810S	4000	60	3	54.52
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.5	В	F	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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Engineering		Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0		
Engr. Date		Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		