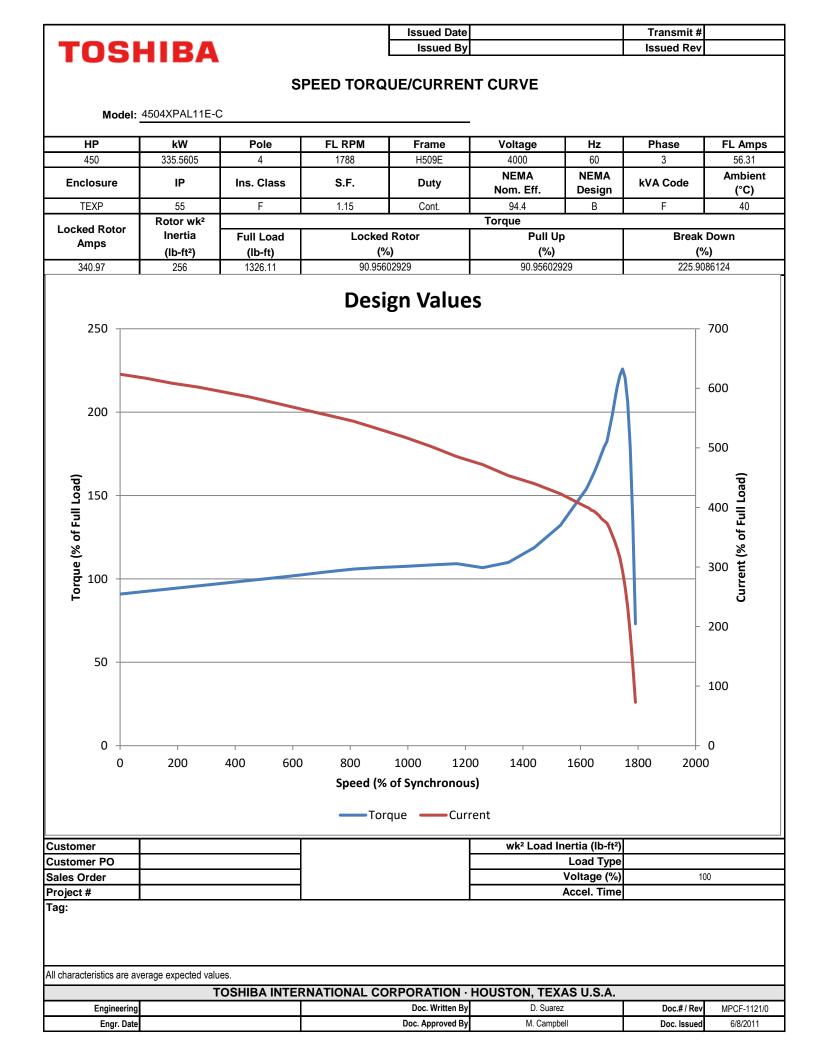


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				Issued Date			Transmit #		
TOSHIBA				Issued By				Issued Rev	
		TYP			IANCE DATA				
Model:	4504XPAL11E	-C							
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps	
450 hp	336 kW	4	1788 rpm H509E 4000 V 60			3	56.3 A		
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)	
TEXP	55	F	1.15	Cont.	94.4	B	F	40	
Load	HP	kW	Ampe	eres	Efficiency	(%)	Power F	actor (%)	
Full Load	450	336			94.4		91	.4	
<sup>3</sup> ⁄ <sub>4</sub> Load	337.5	252	42.	5	94.2		91.1		
1/2 Load	225	168	29.	7	93.1		88	3.0	
1/4 Load	112.5	84							
No Load			11.	9			9	.0	
Locked Rotor			351	.2			22	2.0	
Full Lo	and	Leeke	Torque d Rotor		ull Up	Bro	ak Down	Rotor wk <sup>2</sup> Inertia	
(lb-f 1320	-		91 (%		6 FLT) (' 91		% FLT) 226	(lb-ft²) 256	
1320	0	9	91 91		91		220	250	
Safe Stall	Time(s)	Sound Pressure		Bearir	ngs*		Approx. Mo	otor Weight	
Cold	Hot	dB(A) @ 1M	DE	NDE			(Ik	os)	
18	15	-	6216	-C3	6313Z-C	3	50	00	
*Bearings are the only re	ecommended spare	e part(s).							
Motor Options:									
Customer									
Customer PO									
Sales Order									
Project #									
Tag:									
All characteristics are av		h							
	verage expected va	lues.							
			NATIONAL CO	<b>RPORATION</b> ·	HOUSTON, TEX	AS U.S.A.			
Engineering	-		NATIONAL CO	RPORATION • Doc. Written By		AS U.S.A.	Doc.#/Rev		
Engineering Engr. Date			NATIONAL CO			AS U.S.A.	Doc.# / Rev Doc. Issued		

Issued By         Issued Rev           NAMEPLATE DATA           Model:         4504XPAL11E-C           HP         KW         Pole         FL RPM         Frame         Voltage         Hz         Phase         If           450         335.5605         4         1788         H509E         4000         60         3         1           450         335.5605         4         1788         H509E         4000         60         3         1           Enclosure         IP         Ins. Class         S.F.         Duty         NEMA Nom. Eff.         NEMA Design         kVA Code         1           TEXP         55         F         1.15         Cont         94.4         B         F           Drive End Bearing:         6216-C3           Non-Drive End Bearing:         63132-C3         Output         Max Safe RPM:         Image: Comments 1:         Image: Comments 2:         Image:								<b>-</b>	
HAMEPLATE DATA         Mode:       2504XPAL11E-C         Margin Ma					Issued Date			Transmit #	
Model:       4504XPAL11E-C         HP       kW       Pole       FL RPM       Frame       Voltage       Hz       Phase       I         450       335.5605       4       1788       H509E       4000       60       3       6         Enclosure       IP       Ins. Class       S.F.       Duty       NEMA Nom. Eff.       Design       kVA Code       of         TEXP       55       F       1.15       Cont       94.4       B       F       6         Type: HSB         Form:         Drive End Bearing:       6216-C3         Non-Drive End Bearing:       63132-C3       0	<b>U5</b> F	11BA			Issued By			Issued Rev	
HP         kW         Pole         FL RPM         Frame         Voltage         Hz         Phase         I           450         335.5605         4         1788         H509E         4000         60         3         5           Enclosure         IP         Ins. Class         S.F.         Duty         NEMA Nom. Eff.         NEMA Design         KVA Code         7           TEXP         55         F         1.15         Cont.         94.4         B         F         5           Type: HSB           Form:           Drive End Bearing:         6216-C3           Non-Drive End Bearing:         63132-C3           Power Factor:         91.4           Max Safe RPM:			_	NAME	PLATE DAT	A			
450         335.5605         4         1788         H509E         4000         60         3           Enclosure         IP         Ins. Class         S.F.         Duty         NEMA Nom. Eff.         NEMA Design         kVA Code           TEXP         55         F         1.15         Cont.         94.4         B         F           Type: HSB           Form:	Model:	4504XPAL11E-0							
IP       Ins. Class       S.F.       Duty       NEMA Nom. Eff.       NEMA Design       kVA Code         TEXP       55       F       1.15       Cont.       94.4       B       F         Type: HSB Form:         Drive End Bearing:       6216-C3         Non-Drive End Bearing:       63132-C3         Power Factor:       91.4         Max Safe RPM:	HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amp
Enclosure     IP     Ins. Class     S.F.     Duty     Nom. Eff.     Design     kVA Code       TEXP     55     F     1.15     Cont.     94.4     B     F         Type:     HSB   Form:       Drive End Bearing:     6216-C3       Non-Drive End Bearing:     6313Z-C3   Power Factor:       91.4         Max Safe RPM:   Comments 1:       Comments 2:	450	335.5605	4	1788	H509E			3	56.31
Type: HSB Form: Drive End Bearing: 6216-C3 Non-Drive End Bearing: 6313Z-C3 Power Factor: 91.4 Max Safe RPM: Comments 1: Comments 2:	inclosure	IP	Ins. Class	S.F.	Duty			kVA Code	Ambien (°C)
Form:   Drive End Bearing:   6216-C3   Non-Drive End Bearing:   6313Z-C3   Power Factor:   91.4   Max Safe RPM:   Comments 1:   Comments 2:	TEXP	55	F	1.15	Cont.	94.4	В	F	40
Comments 2:			ve End Bearing: Power Factor:	6313Z-C3			- - -		
			Comments 1:						
			Comments 2:						
Comments 3:			Comments 3:						
Comments 4:									
			Comments 4:						

Customer									
Customer PO									
Sales Order									
Project #									
Tag:									
All characteristics are average expected values.									
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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				



TOSI	HIBA			Issued Date Issued By			Transmit # Issued Rev	
			SPARI	E PARTS LIS	ST*			
Model:	4504XPAL11E-	С			-			
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	335.5605	4	1788	H509E	4000	60	3	56.31
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEXP	55	F	1.15	Cont.	94.4	В	F	40
Bearings DE	6216-C3							
Bearings NDE	6313Z-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 av	erade expected values								
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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				