

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY—ENCLOSED FAN—COOLED HORIZONTAL FOOT—MOUNTED 3 PHASE INDUCTION MOTOR F1 ASSEMBLY

## XT SERIES

VISIT OUR WEBSITE AT: www.toshiba.com/ind



Issued Date	8/25/2014	Transmit #	
Issued By	dschoeck	Issued Rev	

### **TYPICAL MOTOR PERFORMANCE DATA**

Model: B1254YLF40SH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	4	1785	444T	230/460	60	3	288/144
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	125	93.2	144.0	95.7	84.1
¾ Load	93.75	69.9	115.1	95.7	81.1
½ Load	62.50	46.6	87.1	95.0	73.3
¼ Load	31.25	23.3	64.9	87.3	51.6
No Load			47.7		4.2
Locked Rotor			907.00		34.4

Torque					
Full Load	Locked Rotor	Pull Up	Break Down	Inertia	
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)	
368	215	125	255	42.96	

Safe Stall	Time(s)	Sound	Bearings*		Approx. Motor Weight
Cold	Hot	Pressure	Bearing	Approx. Motor Weight	
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)
17	7	-	NU318C3	6313C3	

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

**Motor Options:** 

Product Family:TEXP
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values. The declared locked rotor current has a tolerance of 20%.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1			
Engr. Date	1/17/2012	Doc. Approved By	M. Campbell	Doc. Issued	7/31/2013			



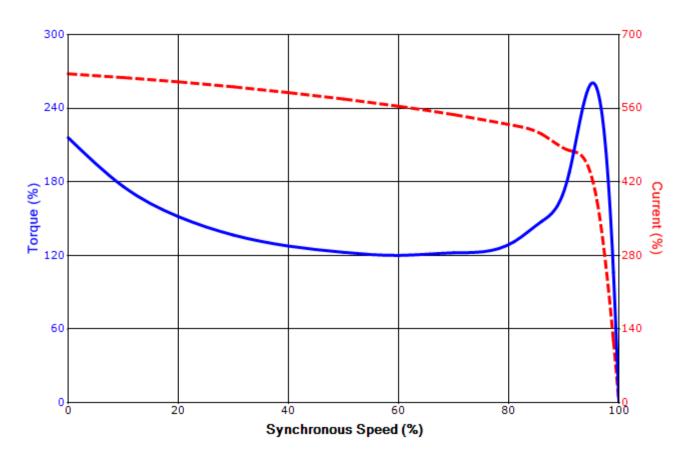
Issued Date	8/25/2014	Transmit #	
Issued By	dschoeck	Issued Rev	

## SPEED TORQUE/CURRENT CURVE

Model: B1254YLF40SH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	4	1785	444T	230/460	60	3	288/144
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	В	G	40 C
Locked Rotor	Rotor wk <sup>2</sup>				Torque			
Amps	Inertia	Full Load	Locked	Locked Rotor			Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	6)
907.00	42.96	368	21	5	125		25	55

# Design Values





Customer		wk² Load Inertia (lb-ft²)	1
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel, Time	-

Tag:

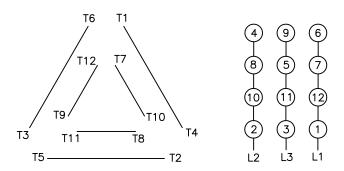
All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0			
Engr. Date	1/17/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			

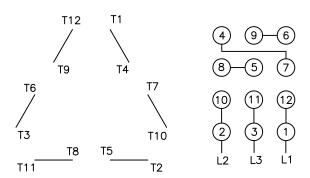
# Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

## Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting. Please Contact Toshiba International for specific connections.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 1



Issued Date:	8/25/2014	Transmit #:	
Issued By:	dschoeck	Issued Rev:	

### **SPARE PARTS LIST\***

Model: B1254YLF40SH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	4	1785	444T	230/460	60	3	288/144
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.8	В	G	40 C

 Bearings DE
 NU318C3 / 90RU03M3OX

 Bearings NDE
 6313C3 / 65BC03J3OX

\*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 average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.										
Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0					
Engr. Date	1/17/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011					