



## TYPICAL MOTOR PERFORMANCE DATA

Model: Y754XPEA42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	4	1770	213TC	230/460	60	3	20.6/10.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	91.7	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	7.50	5.6	10.3	91.8	74.6
¾ Load	5.62	4.2	8.4	90.5	68.8
½ Load	3.75	2.8	6.8	87.5	58.4
¼ Load	1.87	1.4	4.6	80.6	46.9
No Load			5.7		5.0
Locked Rotor			63		39.8

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
22.3	260	195	315	1.15

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15	-	6308ZZC3	6308ZZC3	221

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

**Motor Options:**  
Product Family:EQP Global Explosion Proof  
Mounting:C-Face Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

**TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.**

Engineering	bmmamen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
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## TYPICAL MOTOR PERFORMANCE DATA

Model: Y754XPEA42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	4	1450	213TC	190/380	50	3	22.8/11.4
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.0	CONT	90.5	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	7.50	5.6	11.4	90.6	82.7
¾ Load	5.62	4.2	9.0	90.2	78.1
½ Load	3.75	2.8	7.0	88.2	68.4
¼ Load	1.87	1.4	4.7	81.8	54.2
No Load			4.5		6.3
Locked Rotor			66		42.0

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
27.2	220	165	275	1.15

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
32	23	-	6308ZZC3	6308ZZC3	221

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

**Motor Options:**  
Product Family:EQP Global Explosion Proof  
Mounting:C-Face Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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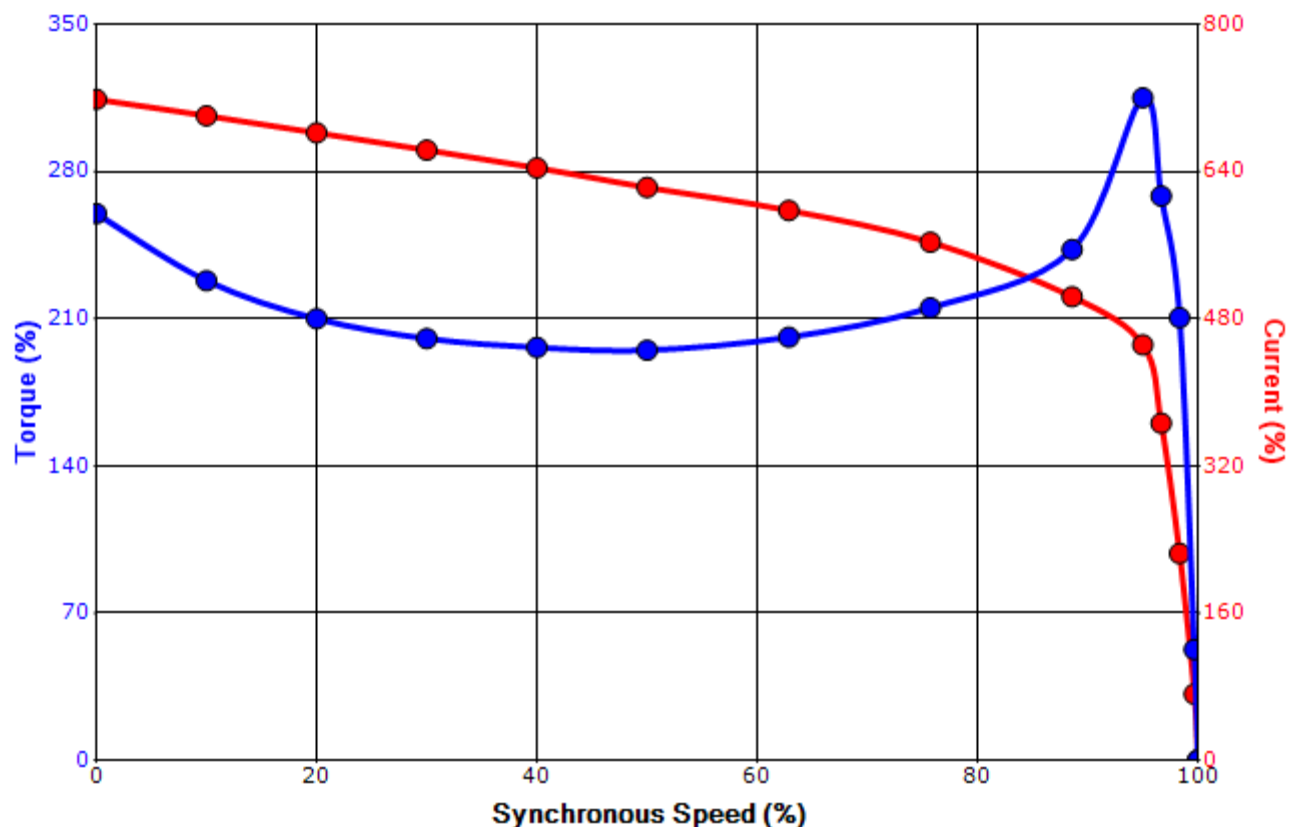
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## SPEED TORQUE/CURRENT CURVE

Model: Y754XPEA42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	4	1770	213TC	230/460	60	3	20.6/10.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	91.7	B		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
63	1.15	22.3	260	195	315			

### Design Values



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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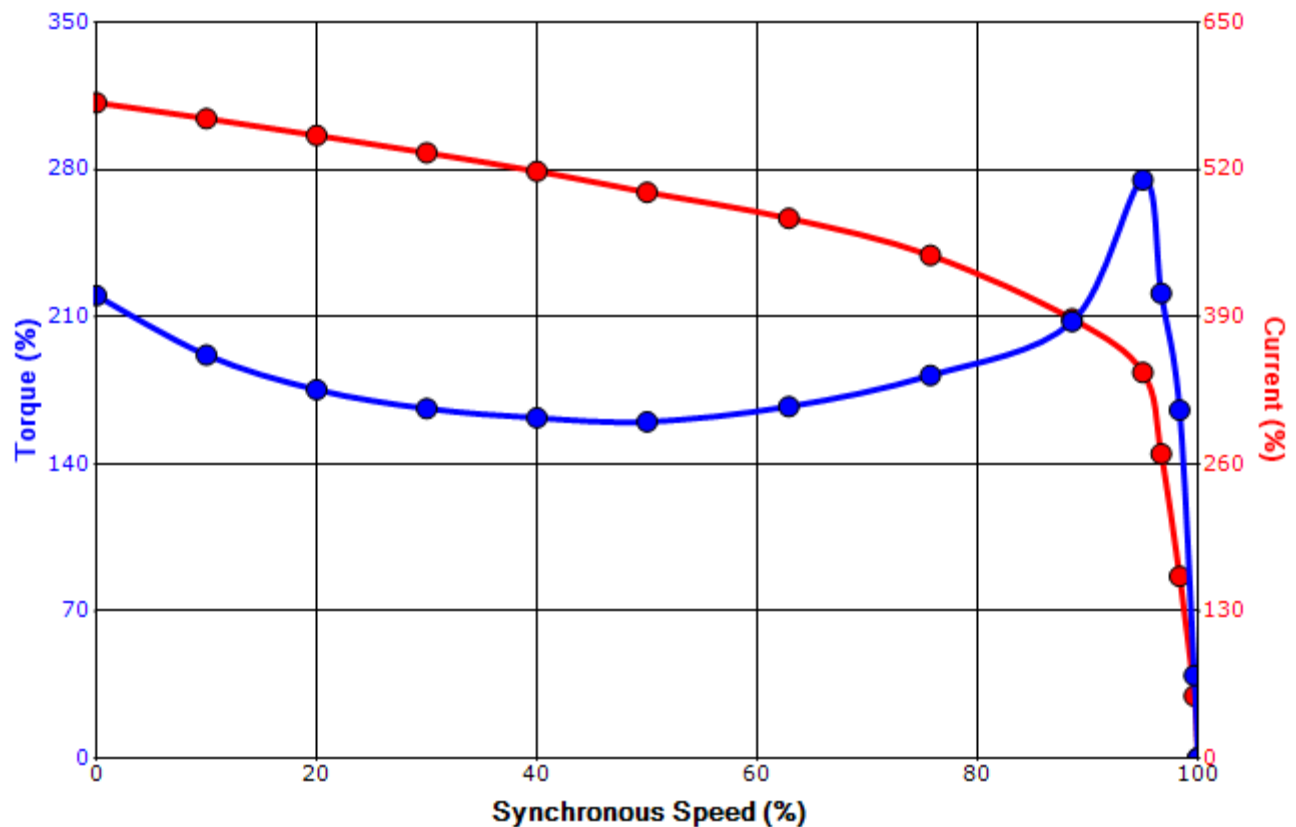
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## SPEED TORQUE/CURRENT CURVE

Model: Y754XPEA42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	4	1450	213TC	190/380	50	3	22.8/11.4
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.0	CONT	90.5	B		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
66	1.15	27.2	220	165	275			

### Design Values



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

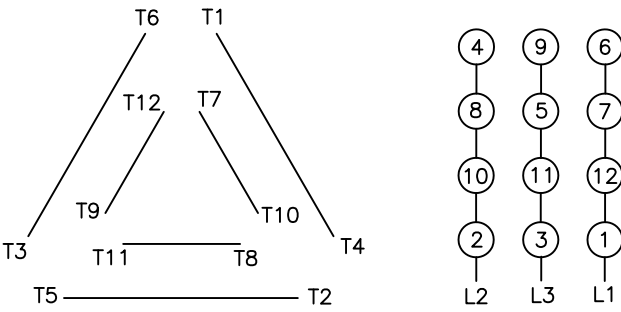
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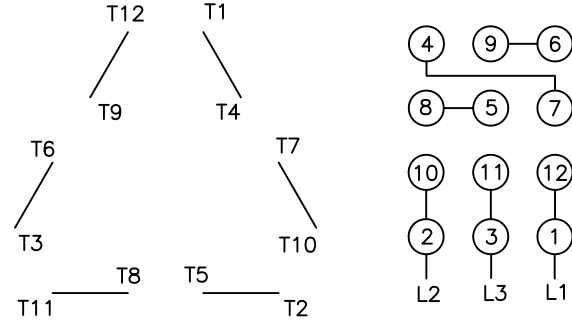
**Motor Connection Diagrams**  
12 Leads

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.

## SPARE PARTS LIST\*

Model: Y754XPEA42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	4	1770	213TC	230/460	60	3	20.6/10.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	91.7	B		40 C

**Bearings DE** 6308ZZC3 / 40BC03JPP3OX

**Bearings NDE** 6308ZZC3 / 40BC03JPP3OX

\*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.

<b>Customer</b>	
<b>Customer PO</b>	
<b>Sales Order</b>	
<b>Project #</b>	

Tag:

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