

UNIT: mm [inch]	
ROTATION FROM NDE	
<input checked="" type="checkbox"/> CCW	<input type="checkbox"/> CW

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TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNT 3 PHASE INDUCTION MOTOR S444/5T F3 ASSEMBLY

**TOSHIBA** SEVERE DUTY **ECOPRO** SD

www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION

DRAWING #: 3HFN001067/MDSL700-01F3

REV. DATE: Mar-04-20 REV. #: 0 PER: Mai Huyen

REV. DESCRIP: -

CERTIFIED  PRELIMINARY

- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
  2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN, OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  3. KEY DIMENSIONS EQUAL 7/8"-7/8"-6 7/8" (MOTOR SUPPLIED WITH KEY)

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 1504SDSA41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
150	110	4	1785	S445T	230/460	60	3	338/169
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.8	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	150.00	111.9	168	96.1	86.5
¾ Load	112.50	83.9	128	95.6	85.6
½ Load	75.00	55.9	91	94.2	81.7
¼ Load	37.50	28.0	58	89.6	66.6
No Load			44.0		
Locked Rotor			1064		24.7

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
441	155	105	230	67.94

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15	84	6318C3	6316C3	

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

**Motor Options:**  
Product Family:EQP Global Top Mount  
Mounting: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.**

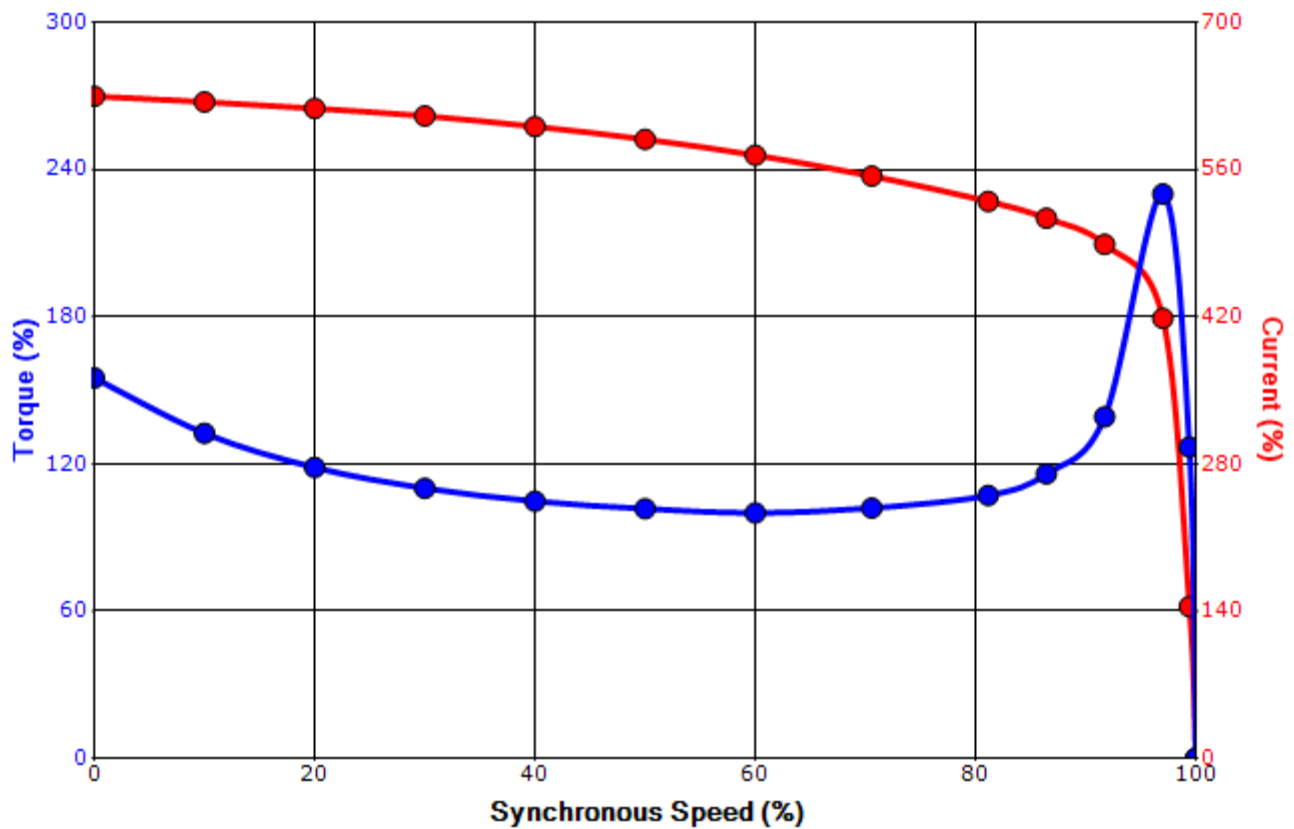
Engineering	mccampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	11/12/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 1504SDSA41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
150	110	4	1785	S445T	230/460	60	3	338/169
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.8	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 (%)			
1064	67.94	441	155	105	230			

**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	-

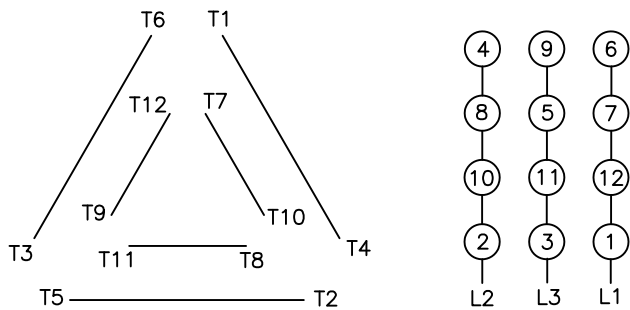
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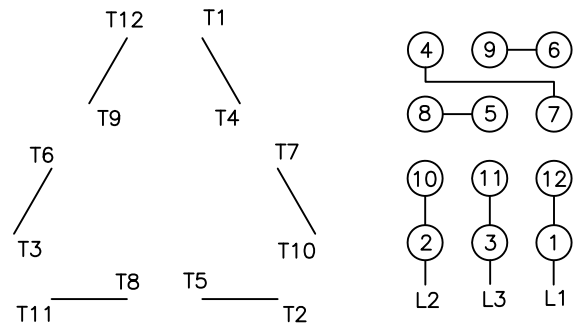
**Motor Connection Diagrams**  
12 Leads

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.