

UNITS: INCHES
 ROTATION FROM NDE

CCW
 CW

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"-6.91" (MOTOR SUPPLIED WITH KEY)

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED CERTIFIED

TOSHIBA SEVERE DUTY
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TOSHIBA INTERNATIONAL CORPORATION

EQP Global SD

TOTALLY ENCLOSED FAN COOLED
 HORIZONTAL FOOT MOUNT
 3 PHASE INDUCTION MOTOR
 S444/5T F1 ASSEMBLY

DRAWING #: MDSL V700-01
 REV. DATE: Nov-21-18 REV. #: 0 PER.: Q.Quynh
 REV. DESCRIP.: -



Issued Date	10/21/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 1254SDSC41A-PR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	4	1785	S444T	575	60	3	115
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	125	93.2	114.9	95.9	85.6
¾ Load	93.75	69.9	87.2	95.4	84.4
½ Load	62.50	46.6	62.5	93.9	79.7
¼ Load	31.25	23.3	41.5	89.1	63.2
No Load			32.1		5.0
Locked Rotor			704.6		26.7

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
368	160	115	235	54.36

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15	84	NU318C3	6316C3	

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

Motor Options:
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1
Engr. Date	11/9/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019



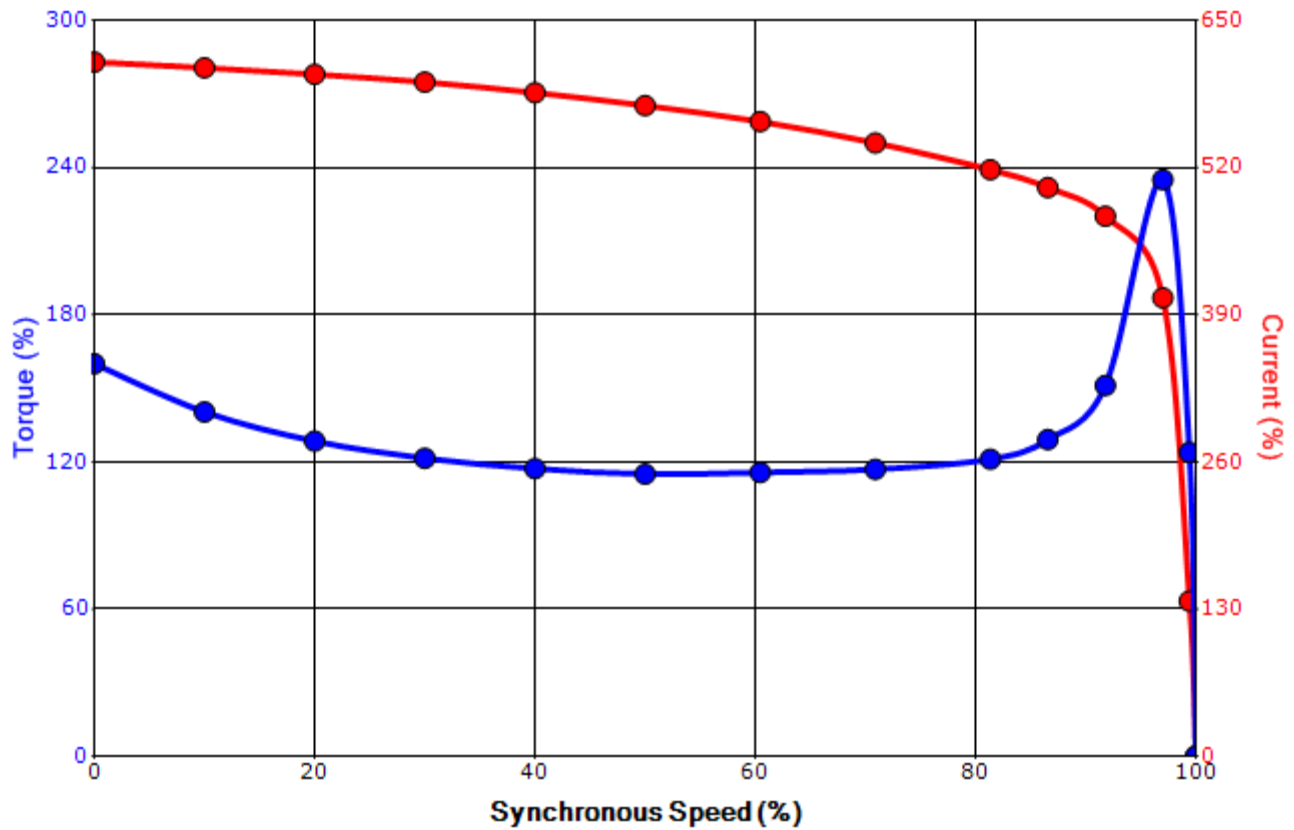
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Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 1254SDSC41A-PR

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	4	1785	S444T	575	60	3	115
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	B	G	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque				Pull Up (%)	Break Down (%)	
		Full Load (lb-ft)	Locked Rotor (%)					
704.6	54.36	368	160		115	235		

Design Values



Customer		wk ² Load Inertia (lb-ft ²)	-
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-1121/1
Engr. Date	11/9/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation