

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

0.188" x 0.188" x 1.38"

UNITS: INCHES

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

**140T TEFC FRAME
 F3 ASSEMBLY**

MDSL019-01

TOSHIBA
 TOSHIBA INTERNATIONAL CORPORATION

TOLERANCES

.X	.1
.XX	.03
.XXX	.005
.XXXX	.0005

MAXIMUM MOTOR WEIGHT

56 lbs.
25 kgs.

1	CHANGE PLACEMENT OF T-BOX	MO	03/21/14	JR
0	FIRST ISSUE	M. EASTERBROOK	04/23/13	JR
NO	REVISION	DRAWN BY	DATE	CHECK



DRAWN BY: M. EASTERBROOK
 CHECK BY: J. RUSSELL
 APPROVED BY: _____
 www.toshiba.com/ind

TYPICAL MOTOR PERFORMANCE DATA

Model: 0022SDSR41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	3490	145T	230/460	60	3	5.20/2.60
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	85.5	B	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2	1.5	2.6	85.6	84.4
¾ Load	1.50	1.1	2.0	84.9	79.8
½ Load	1.00	0.7	1.6	82.2	69.5
¼ Load	0.50	0.4	1.3	72.8	48.9
No Load			1.2		8.5
Locked Rotor			24.00		76.1

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
3.01	275	245	360	0.06

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
27	15	-	6305ZZC3	6305ZZC3	

*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 / 0
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

TYPICAL MOTOR PERFORMANCE DATA

Model: 0022SDSR41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	2855	145T	190/380	50	3	6.40/3.20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	B	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2	1.5	3.2	84.0	84.5
¾ Load	1.50	1.1	2.4	85.4	79.6
½ Load	1.00	0.7	1.8	84.9	69.3
¼ Load	0.50	0.4	1.4	70.9	56.3
No Load			1.0		9.4
Locked Rotor			30.00		97.2

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
3.68	190	180	240	0.06

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
11	5	-	6305ZZC3	6305ZZC3	

*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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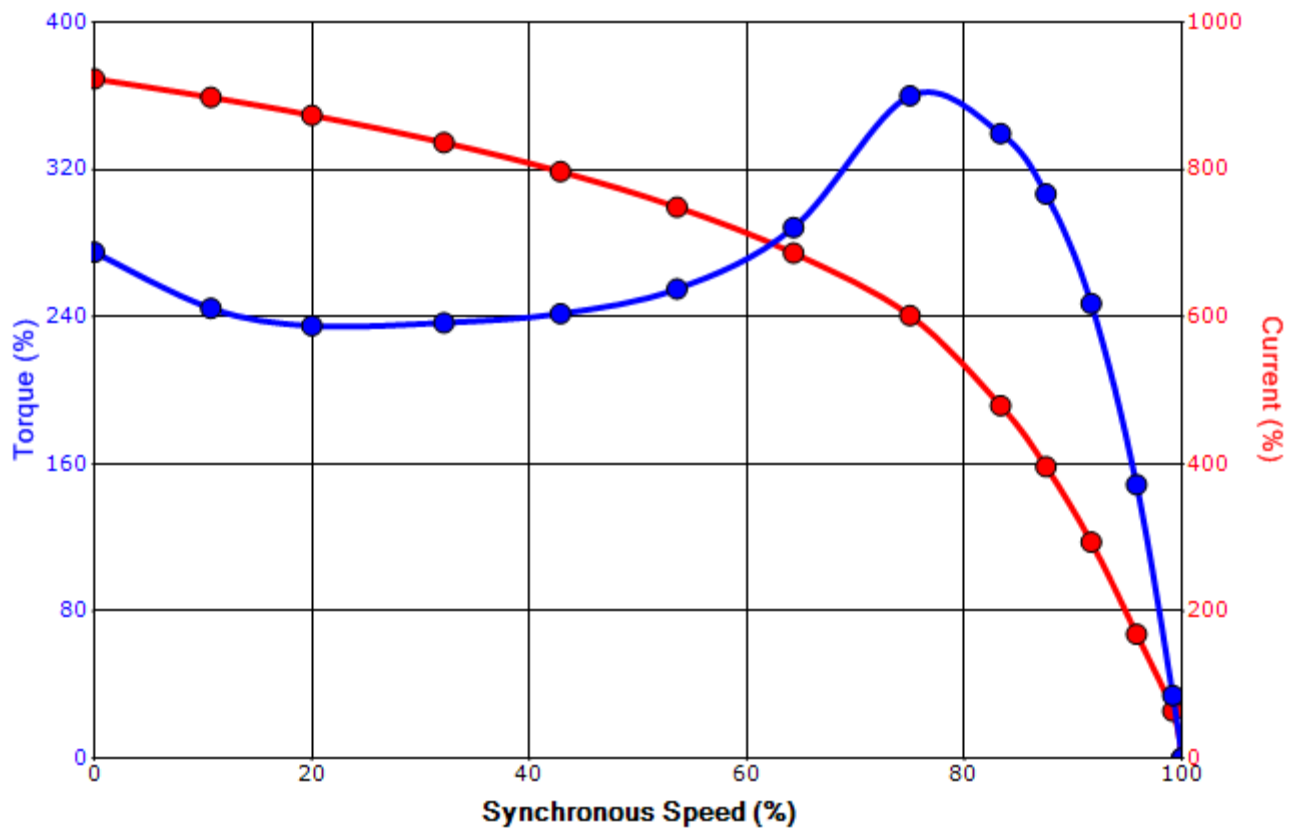
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
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SPEED TORQUE/CURRENT CURVE

Model: 0022SDSR41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	3490	145T	230/460	60	3	5.20/2.60
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	85.5	B	L	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
24.00	0.06	3.01	275	245		360		

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.

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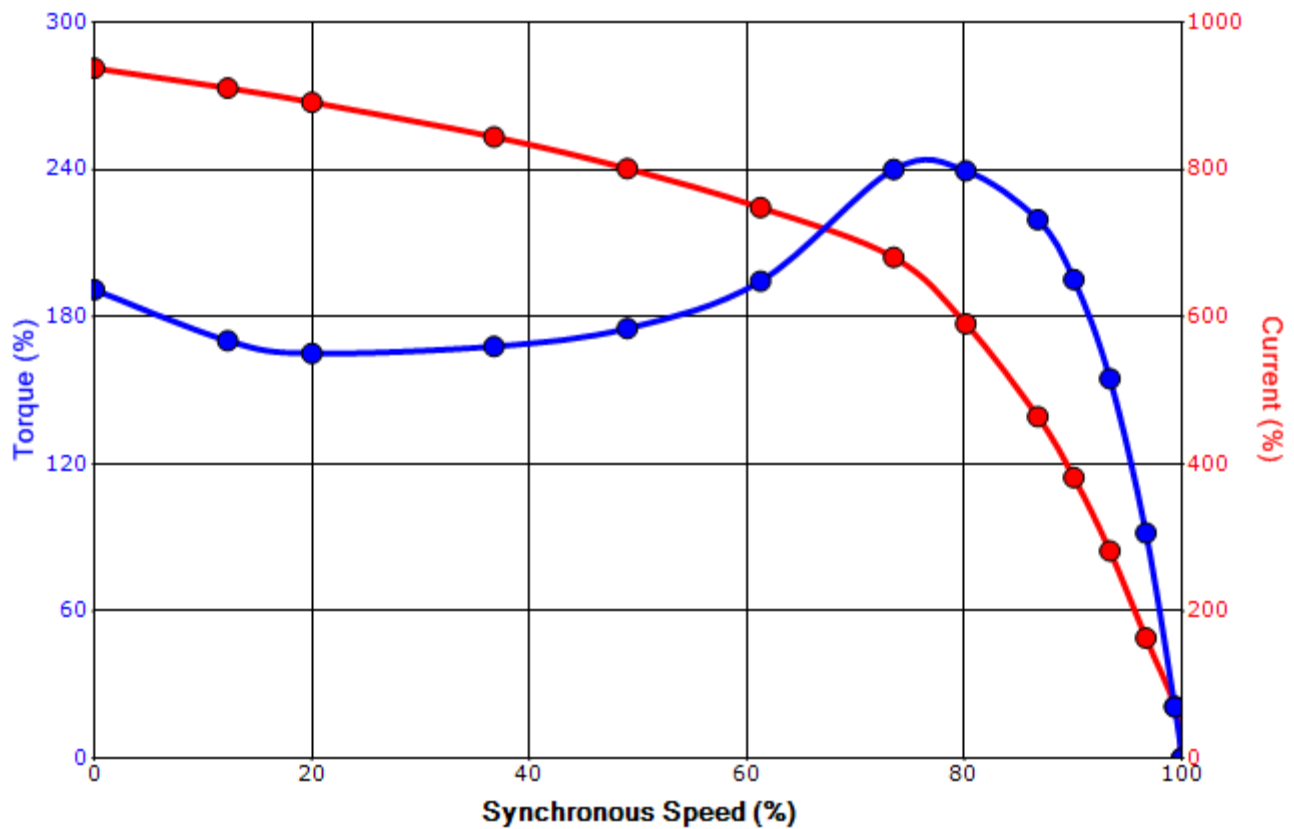
Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 0022SDSR41A-P3

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	2855	145T	190/380	50	3	6.40/3.20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	B	L	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
30.00	0.06	3.68	190	180			240	

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.

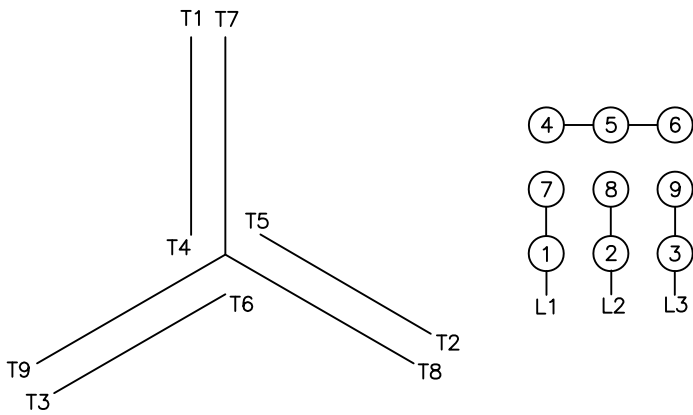
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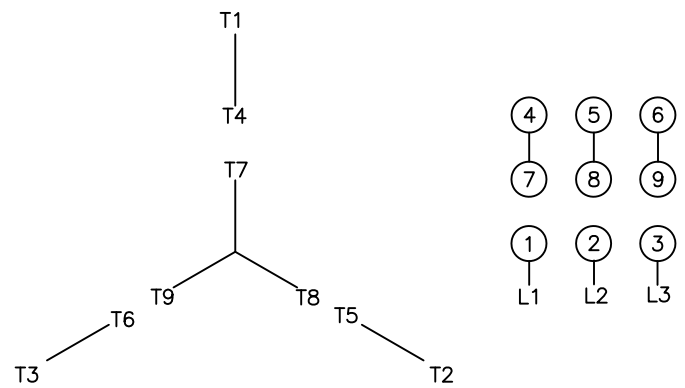
Motor Connection Diagrams
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation