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TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED
HORIZONTAL FOOT MOUNT
3 PHASE INDUCTION MOTOR
404TS/405TS F1 ASSEMBLY

DRAWING #: MDSLV002-08

REV. DATE: 8/16/17 REV. #: 3 PER.: J. HOCK

REV. DESCRIP.: CHANGED DRAWING TABLE FORMAT



Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 1004SDSR41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405TS	230/460	60	3	231/116
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100	74.6	115.7	95.6	84.6
¾ Load	75.00	55.9	91.0	95.2	81.0
½ Load	50.00	37.3	69.1	93.9	72.1
¼ Load	25.00	18.6	52.3	89.2	50.1
No Load			38.8		3.6
Locked Rotor			725		34.6

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
296	215	175	310	25.95			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearings*			
		dB(A) @ 1M	DE	NDE	(Ibs)	
16	8	75	6313C3	6313C3		

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

Motor Options: Mounting:Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1			
Engr. Date	11/15/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 1004SDSR41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	4	1475	405TS	190/380	50	3	213/107
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.6	В	Н	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	75	55.9	106.6	94.4	84.4
¾ Load	56.25	41.9	84.7	93.9	80.1
½ Load	37.50	28.0	65.3	92.4	70.3
¼ Load	18.75	14.0	50.8	87.1	47.9
No Load			39.3		3.1
Locked Rotor			722		34.4

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
267	225	170	310	25.95			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearings*			
		dB(A) @ 1M	DE	NDE	(lbs)	
20.4	11.2	75	6313C3	6313C3		

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

Motor Options: Mounting:Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

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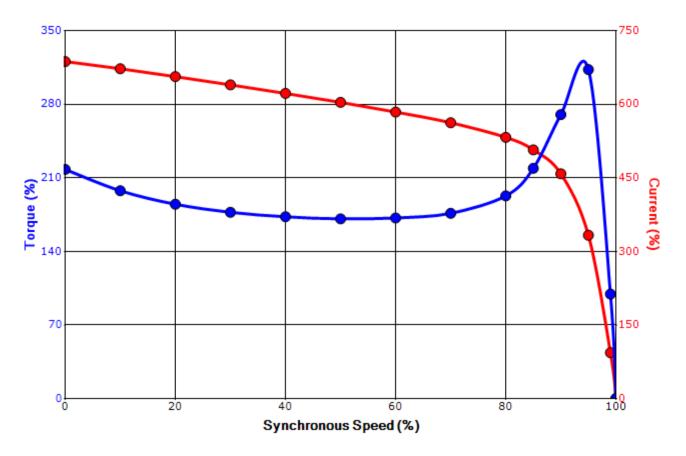
Issued Date	12/18/2019	Transmit #	
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SPEED TORQUE/CURRENT CURVE

Model: 1004SDSR41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405TS	230/460	60	3	231/116
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	В	G	40 C
Laskad Datas	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull Up)	Break	Down
Amps	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
725	25.95	296	215		175		3′	0

Design Values





Customer	wk² Load Inerti	a (lb-ft²)
Customer PO	Lo	ad Type
Sales Order	Vol	age (%) 100
Project #	Acc	el. Time -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	11/15/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



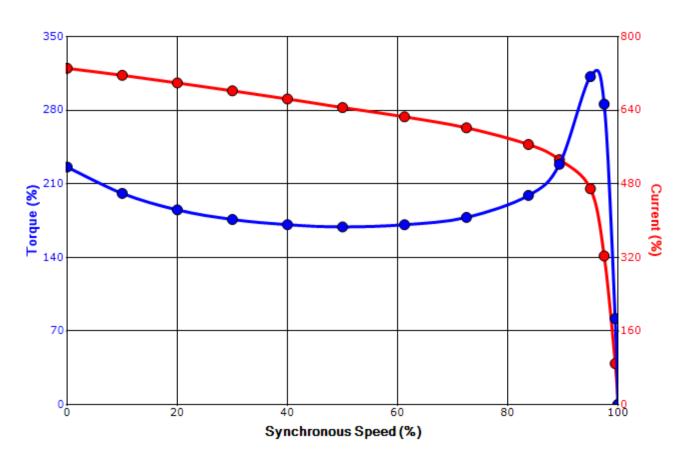
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 1004SDSR41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	4	1475	405TS	190/380	50	3	213/107
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.6	В	Н	40 C
Looked Dates	Rotor wk²			-	Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	p	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
722	25.95	267	225		170		3′	10

Design Values





Customer	wk² Load Inertia (lb-f	-
Customer PO	Load Ty	
Sales Order	Voltage (6) 100
Project #	Accel. Tin	ie -

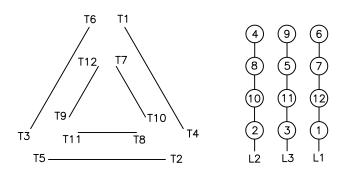
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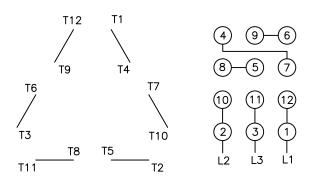
Motor Connection Diagrams 12 Leads

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.

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