

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.

AVAILABLE ONLY BY CONNECTION C

0.50x0.50x2.75

(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

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

DRAWING #: MDSLV082-08

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

REV. DESCRIP.: CHANGED DRAWING TABLE FORMAT

TOSHIBA INTERNATIONAL CORPORATION



Issued Date	7/19/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 1002XDSC41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3560	405TS	575	60	3	90
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.1	В		40 C

Load	ad HP kW		HP kW Amperes		Efficiency (%)	Power Factor (%)	
Full Load	100.00	74.6	89	94.6	88.0		
¾ Load	75.00	55.9	69	93.8	86.6		
½ Load	50.00	37.3	49	91.9	82.2		
¼ Load	25.00	18.6	32	85.8	66.9		
No Load			21.6		8.1		
Locked Rotor			568		31.7		

Torque						
Full Load	Full Load Locked Rotor Pull Up Break Down					
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
148	195	125	245	17.36		

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight			
Cold	Hot	Pressure	Bearings*		Pressure		Approx. Motor Weight
Colu	dB(A) @ 1M		DE	NDE	(lbs)		
15	6	85	6313C3	6313C3			

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

Motor Options: Mounting:Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	10/17/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



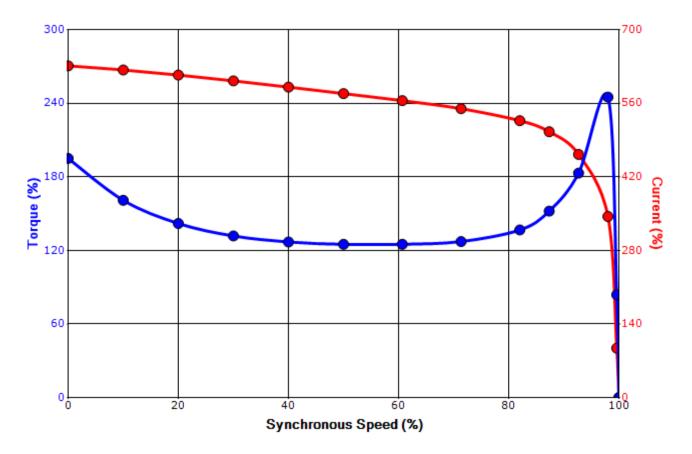
Issued Date	7/19/2021	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 1002XDSC41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3560	405TS	575	60	3	90
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.1	В		40 C
Looked Bates	Rotor wk ²	Torque						
Locked Rotor Amps	Inertia	Full Load	Load Locked Rotor		Pull Up		Break Down	
Aiiiþa	(lb-ft²)	(lb-ft)	(%	(%)			(%	%)
568	17.36	148	195		125		24	45

Design Values





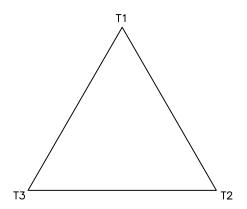
Customer	wk² Load Inertia (lb	ft²) -		
Customer PO	Load T	/pe -		
Sales Order	Voltage	(%) 100		
Project #	Accel. T	me -		

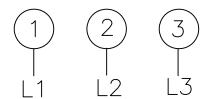
Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	Engineering bmammen Doc. Written By D. Suarez Doc.#/Rev MPCF-1							
Engr. Date	10/17/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			

Motor Connection Diagram 3 Leads - Delta Connection





Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable. If multiple cables represent a single lead, each one of them will be labeled with the appropriate lead number.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 0