

UNITS: INCHES

lΓ	FRAME		MOTOR DIMENSIONS						CONDUIT BOX										
ΙL	SIZE	Α	В	C	D	G	J	K	М	0	Ъ	Τ	AA[NPT]	AB	AC	AE	AF	XL	XN
	404TS/405TS	19.2	17.7	39.2	10.00	1.0	4.0	5.9	13.4	20.1	19.9	2.8	3.00	21.3	15.6	10.00	7.9	15.2	12.3
ΙГ	404T/405T	19.2	17.7	42.2	10.00	1.0	4.0	5.9	13.4	20.1	19.9	2.8	3.00	21.3	15.6	10.00	7.9	15.2	12.3

FRAME			MOUNTING			SHAFT EXTENSION			KEY SEAT		BEARINGS		MAXIMUM
SIZE	Е	2F	Н	BA	N-W	٧	U	R	S	ES	LS	os	WEIGHT
404TS/405TS	8.00	12.25/13.75	0.81	6.62	4.25	4.00	2.125	1.845	0.500	2.75	6313C3	6313C3	1380 lbs.
404T/405T	8.00	12.25/13.75	0.81	6.62	7.25	7.00	2.875	2.450	0.750	5.62	6317C3	6313C3	1380 lbs.

bs.

STANDARD PRODUCT USE BI-DIRECTIONAL
 FAN. OPPOSITE ROTATION AVAILABLE
 ONLY BY CONNECTION CHANGE

3. KEY DIMENSIONS EQUAL S x S x 5.62
FOR T AND S x S x 2.75 FOR TS
(MOTOR SUPPLIED WITH KEY)
4. MOTOR WEIGHT SHOWN IS MAXIMUM
HORSEPOWER IN FRAME
5. THIS DIMENSION EQUALS 2F FOR
404T/TS MOUNTING

IN 90° INCREMENTS

CUSTOMER: MOTOR MODEL NO.:	TAG NO's.:	
P.O. NO.: HP:VOLTAGE: RPM(SYN.): Hz: FRAME SIZE: PRODUCT TYPE: TEFC EXPLOSION PROOF; CLASS I GROUP D; CLASS II GROUPS E, F, G COMMENTS:		STANDARD (NO AUX. BOXES) RTD AUX. BOX SPACE HEATER AUX. BOX BEARING RTD's
PER: DATE:		

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

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

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY-ENCLOSED FAN-COOLED HORIZONTAL FOOT-MOUNTED 3 PHASE INDUCTION MOTOR F1 ASSEMBLY

XT SERIES

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Issued Date	9/24/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: B1002YLG3USH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3555	405TS	460	60	3	112
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)		
Full Load	100	74.6	112.0	95.0	87.8		
¾ Load	75.00	55.9	86.8	95.0	86.2		
½ Load	50.00	37.3	62.5	94.8	81.0		
¼ Load	25.00	18.6	41.9	87.7	63.7		
No Load			26.0		6.5		
Locked Rotor			725		34.1		

	Torque									
Full Load	Locked Rotor	Pull Up	Break Down	Inertia						
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)						
148	215	145	255	17.36						

Safe Stall	Time(s)	Sound	Bearin	Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M	DE		
12.3	6.1	-	6313C3	NDE 6313C3	1569

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

Motor Options:
Product Family:EQP Global Explosion Proof
Mounting:Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.											
Engineering	jaustin	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1							
Engr. Date	6/26/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019							



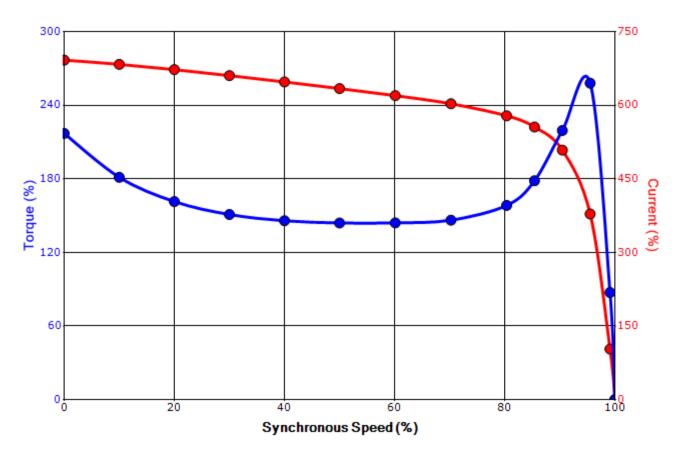
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SPEED TORQUE/CURRENT CURVE

Model: B1002YLG3USH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3555	405TS	460	60	3	112
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95	В	G	40 C
Leeked Deter	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor Pull Up)	Break Down	
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%)	
725	725 17.36 148 215		5	145		255		

Design Values



Torque Current

Customer	wk² Load Inertia (b-ft²)
Customer PO	Load	Type -
Sales Order	Voltag	e (%) 100
Project #	Accel.	Time -

Tag:

All characteristics are average expected values.

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Engineering	jaustin	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1	
Engr. Date	6/26/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019	

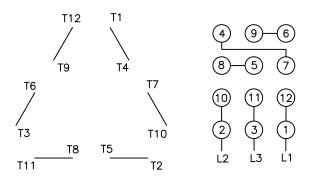
Motor Connection Diagrams 12 Leads

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