

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 SH			SHAFT EXTENSION KEY		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

VISIT OUR WEBSITE AT: www.toshiba.com/ind



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

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: B1004YLF3USH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	460	60	3	116
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.4	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100	74.6	116.0	95.4	84.1
¾ Load	75.00	55.9	91.8	95.6	81.2
½ Load	50.00	37.3	69.9	95.3	74.3
¼ Load	25.00	18.6	53.2	89.7	49.0
No Load			37.0		4.0
Locked Rotor			725		32.0

	Torque									
Full Load	Locked Rotor	Pull Up	Break Down	Inertia						
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)						
296	296 215 180 290									

Safe Stall	Time(s)	Sound	Bearin	Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M	DE		
16.2	8.2	-	6317C3	<b>NDE</b> 6313C3	1593

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

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

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

	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					



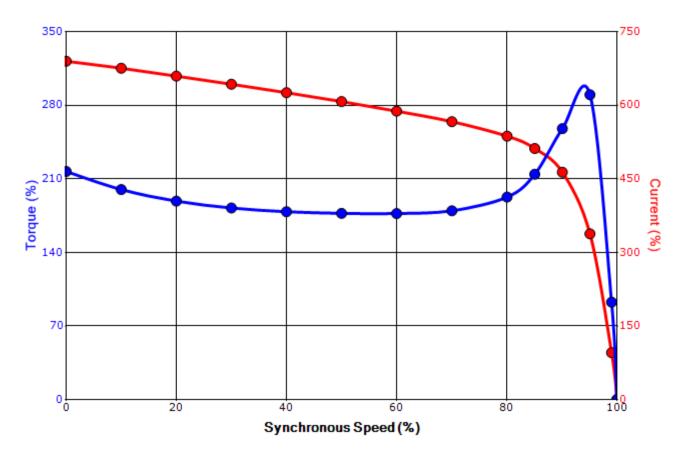
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#### SPEED TORQUE/CURRENT CURVE

Model: B1004YLF3USH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	460	60	3	116
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.4	В	G	40 C
Looked Deter	Rotor wk <sup>2</sup>				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull Up		Break Down	
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%)	
725	725 25.95 296 215		5	180		290		

### 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	

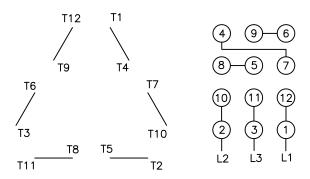
# Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

#### 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