ROTATION
- ☒ CCW
- ☐ CW

S +0.002 −0.000
R +0.000 −0.015
U +0.000 −0.001
D +0.00 −0.06

8xH HOLES

AA CONDUIT

SEE NOTE 5

NOTES:
1. DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
2. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
3. KEY DIMENSIONS EQUALS 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
6. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS										CONDUIT BOX						
	A	B	C	D	G	J	K	M	O	P	T	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
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 SIZE	MOUNTING				SHAFT EXTENSION			KEY SEAT			BEARINGS		MAXIMUM WEIGHT
	E	2F	H	BA	N−W	V	U	R	S	ES	LS	OS	
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.

CUSTOMER: _____ MOTOR MODEL NO.: _____

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: _____

PER: _____ DATE: _____

TAG NO's.:

- ☒ STANDARD (NO AUX. BOXES)
- ☐ RTD AUX. BOX
- ☐ SPACE HEATER AUX. BOX
- ☐ BEARING RTD's

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

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TOSHIBA

TYPICAL MOTOR PERFORMANCE DATA

Model: B1004YLF3OSH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	575	60	3	93

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.4	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100	74.6	93.0	95.4	84.1
¾ Load	75.00	55.9	72.9	95.6	81.2
½ Load	50.00	37.3	55.2	95.3	74.3
¼ Load	25.00	18.6	41.6	89.8	50.1
No Load			29.0		4.0
Locked Rotor			580		32.2

Torque

Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Rotor wk² Inertia (lb-ft²)
296	210	175	280	25.95

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	**Hot**		**DE**	**NDE**	**(lbs)**
16.7	8.3	-	6317C3	6313C3	1539

*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

TOSHIBA

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

SPEED TORQUE/CURRENT CURVE

Model: B1004YLF3OSH

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	575	60	3	93

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	95.4	B	G	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
580	25.95	296	210	175	280

Design Values

Torque (%) / Current (%) vs Synchronous Speed (%)

Legend: Torque (blue), Current (red)
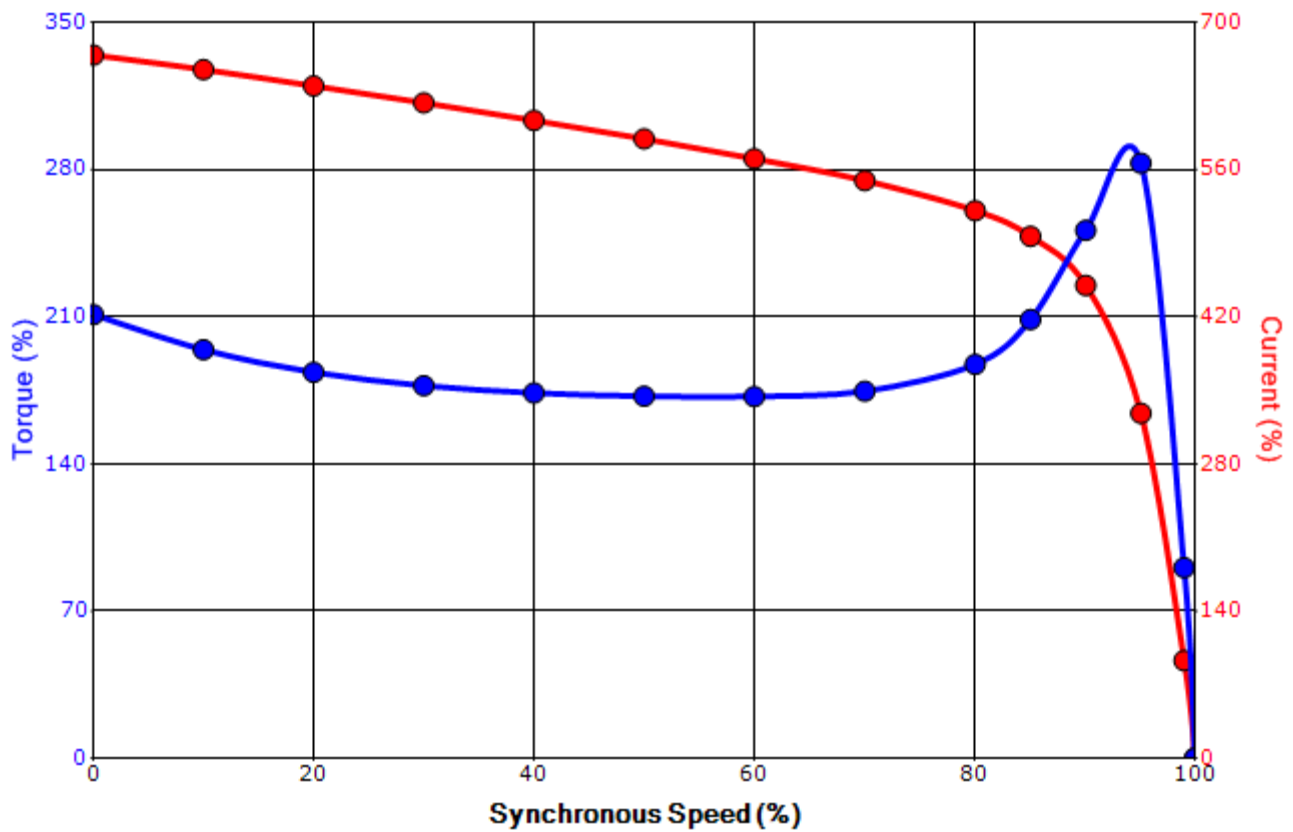
| Customer		wk² Load Inertia (lb-ft²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-
Tag:			

All characteristics are average expected values.

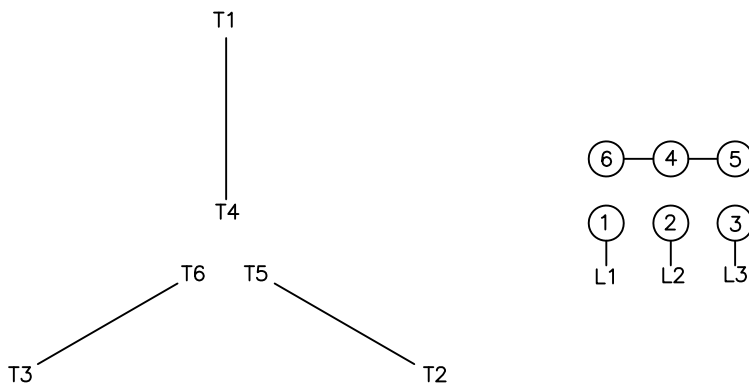### TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

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

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:

T6   T1

T3   T4

T5 —————————— T2

(1) (2) (3)
(6) (4) (5)
L1   L2   L3
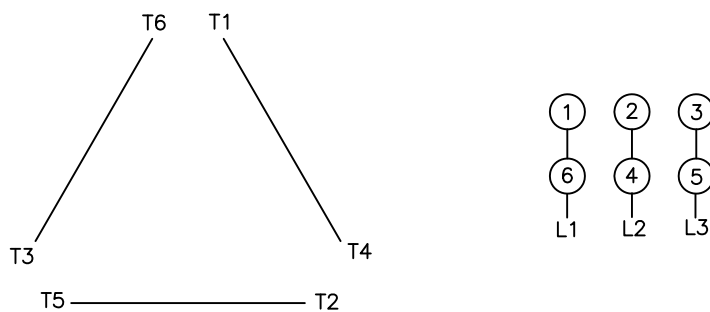
Alternate Starting Connection - Wye:

T1

T4

T6   T5

T3   T2

(6)—(4)—(5)

(1) (2) (3)
L1   L2   L3

Switch L1 and L2 to reverse rotation