

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS										CONDUIT BOX							
	A	B	C	D	G	J	K	M	O	P	T	AA	AB	AC	AE	AF	XL	XN
404TS/405TS	19.2	17.7	49.8	10.00	1.4	4.0	5.9	14.7	19.5	20.5	2.8	3.00	16.0	13.3	10.00	5.6	9.7	7.1
404T/405T	19.2	17.7	52.8	10.00	1.4	4.0	5.9	14.7	19.5	20.5	2.8	3.00	16.0	13.3	10.00	5.6	9.7	7.1
FRAME SIZE	MOUNTING					SHAFT EXTENSION			KEY SEAT			BEARINGS			MAXIMUM WEIGHT			
404T/405T	E	2F	H	BA	N-W	V	U	R	S	ES	LS	OS				1380 lbs.		
	8.00	12.25/13.75	0.81	6.62	4.25	4.00	2.125	1.845	0.500	2.75	6.313C3	6.313C3						
	8.00	12.25/13.75	0.81	6.62	7.25	7.00	2.875	2.450	0.750	5.62	6.317C3	6.313C3						

CUSTOMER: _____ MOTOR MODEL NO.: _____ TAG NO's: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ HZ: _____
 FRAME SIZE: _____ PRODUCT TYPE: IEBC VECTOR READY EQP III
 COMMENTS: _____

 PER: _____ DATE: _____

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

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

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

XT SERIES
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TYPICAL MOTOR PERFORMANCE DATA

Model: 1004BCFB31A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1779	405T	460	60	3	117
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEBC	54	F	1.15	CONT	95.8	A	H	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100	74.6	116.5	96.2	83.5
¾ Load	75.00	55.9	91.8	95.8	79.8
½ Load	50.00	37.3	70.0	94.4	70.8
¼ Load	25.00	18.6	53.3	89.7	48.9
No Load			41.4		3.1
Locked Rotor			836.00		34.8

Torque				Rotor wk ²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft ²)
295	245	180	335	25.95

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
14.6	9.1	-	6317C3	6313C3	

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

Motor Options:
Product Family:Vector Ready Series
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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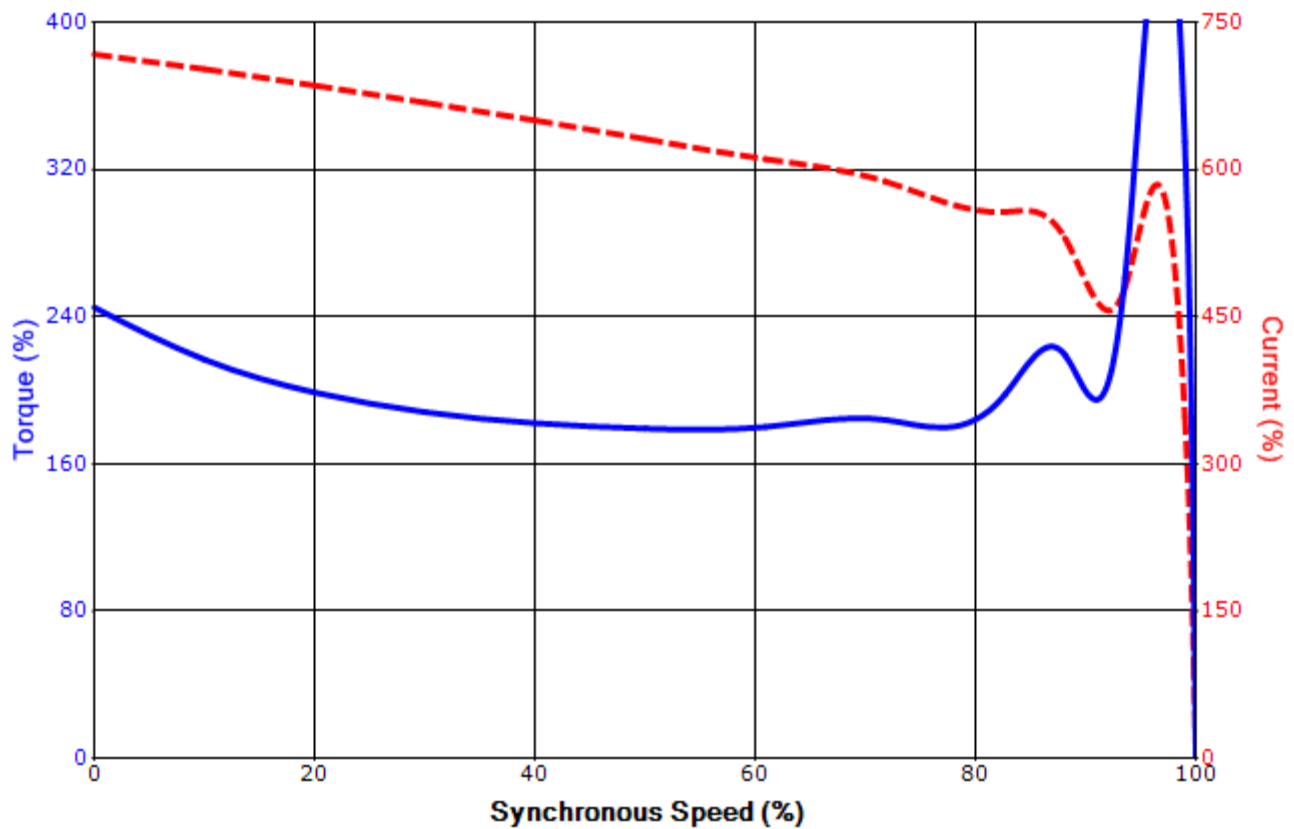
Engineering	bmmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	12/17/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 1004BCFB31A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1779	405T	460	60	3	117
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEBC	54	F	1.15	CONT	95.8	A	H	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
836.00	25.95	295	245	180			335	

Design Values



Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	12/17/2014	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.