

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS											CONDUIT BOX						MAXIMUM WEIGHT
	A	B	C	D	G	J	K	M	O	P	T	A	B	AC	AE	AF	XL	
N587US	28.0	29.6	55.6	14.50	1.6	6.3	5.6	22.3	28.8	31.9	4.4	4.00	24.7	20.5	14.5	9.2	15.2	10.3
N587UZ	28.0	29.6	62.4	14.50	1.6	6.3	5.6	22.3	28.8	31.9	4.4	4.00	24.7	20.5	14.5	9.2	15.2	10.3
N587UZQ	28.0	29.6	62.4	14.50	1.6	6.3	5.6	22.3	28.8	31.9	4.4	4.00	24.7	20.5	14.5	9.2	15.2	10.3
FRAME SIZE	MOUNTING											KEY SEAT			BEARINGS			MAXIMUM WEIGHT
E	2F	H	BA	N-W	V	U	R	S	ES	LS	OS							
N587US	11.50	25.00	1.2	10.00	4.75	4.50	2.875	2.450	0.750	3.00	6320C3	6320C3	6320C3	4000 lbs.				
N587UZ	11.50	25.00	1.2	10.00	11.62	11.38	3.875	3.309	1.000	10.00	NU324C3	6320C3	6320C3	4000 lbs.				
N587UZQ	11.50	25.00	1.2	10.00	11.62	11.38	4.375	3.817	1.000	10.00	NU324C3	6320C3	6320C3	4000 lbs.				

CUSTOMER: \_\_\_\_\_ MOTOR MODEL NO.: \_\_\_\_\_ TAG NO's: \_\_\_\_\_

P.O. NO.: \_\_\_\_\_ HP: \_\_\_\_\_ VOLTAGE: \_\_\_\_\_ RPM(SYN.): \_\_\_\_\_ HZ: \_\_\_\_\_  
 FRAME SIZE: \_\_\_\_\_ PRODUCT TYPE: IIEFC EGP III, EPACK, & HIGH EFFICIENCY QUARRY DUTY  
 COMMENTS: \_\_\_\_\_

PER: \_\_\_\_\_ DATE: \_\_\_\_\_

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  CERTIFIED

- 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 10.00 FOR UZ & UZQ AND S x S x 3.00 FOR US (MOTOR SUPPLIED WITH KEY)
  4. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
  5. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

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

**TOSHIBA**  
 TOSHIBA INTERNATIONAL CORPORATION  
 TOTALLY-ENCLOSED FAN-COOLED  
 HORIZONTAL FOOT-MOUNTED  
 3 PHASE INDUCTION MOTOR  
 F1 ASSEMBLY

**XT SERIES**  
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**TYPICAL MOTOR PERFORMANCE DATA**

Model: A2506FLF4OMQ

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	6	1185	N587UZ	575	60	3	237
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.3	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	250	186.4	237.0	94.3	84.1
¾ Load	187.50	139.8	176.9	94.5	82.9
½ Load	125.00	93.2	125.8	94.0	78.3
¼ Load	62.50	46.6	82.3	88.4	64.4
No Load			54.0		7.3
Locked Rotor			1440.00		31.5

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1108	205	145	195	163.51

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
19.1	8.8	-	NU324C3	6320C3	

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

**Motor Options:**  
Product Family:Quarry  
Mounting:Footed,Shaft:UZ Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

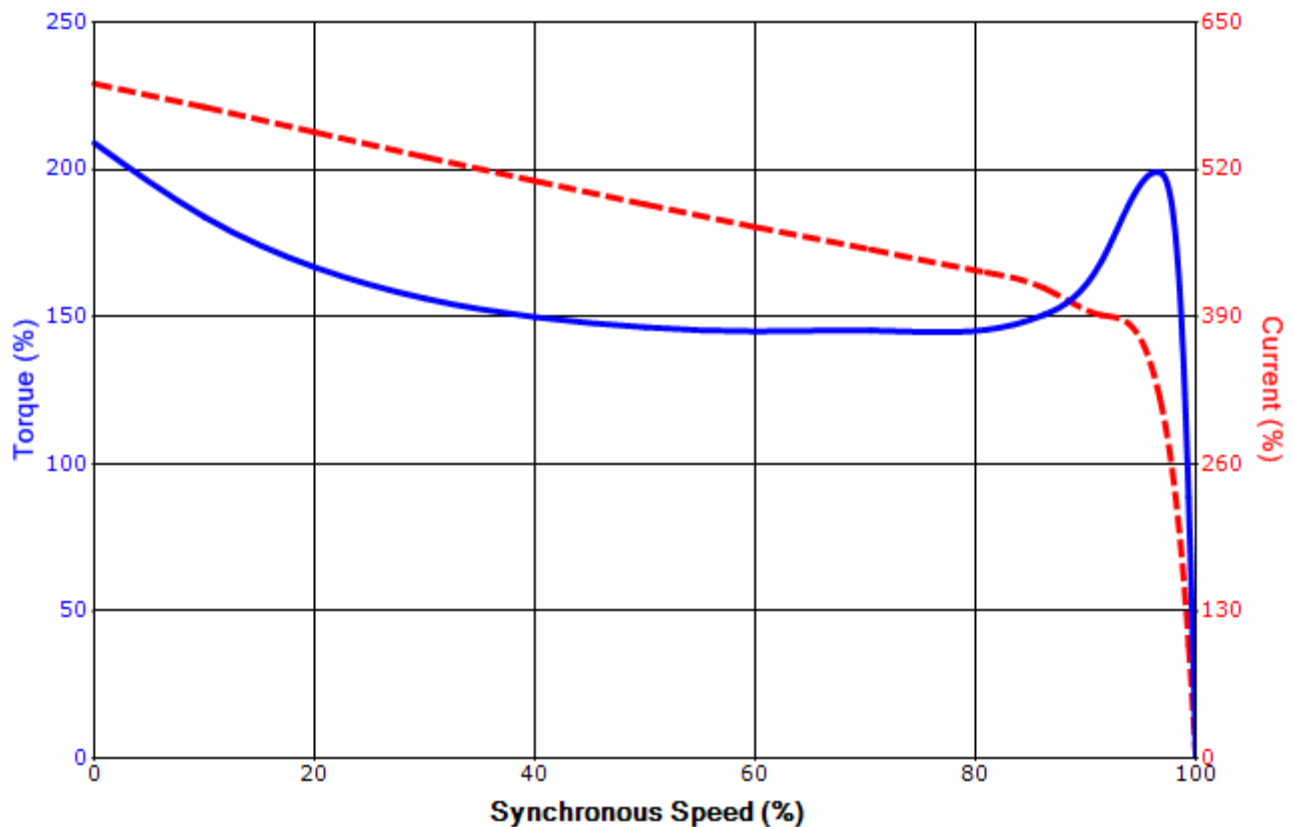
Engineering	jaustin	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	7/22/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: A2506FLF4OMQ

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	6	1185	N587UZ	575	60	3	237
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.15	CONT	94.3	B	G	40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
1440.00	163.51	1108	205	145			195	

**Design Values**



Customer		wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> )	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	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 / 0
Engr. Date	7/22/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**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.