

UNITS: INCHES

FRAME SIZE	FLANGE DIMENSIONS									
	AH	AJ	AK	BB	BC	BD	BF	TAP	BV	
143TC/145TC	2.12	5.875	4.500	0.16	0.12	6.48	3/8"	-16UNC	8.33	

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
143TC/145TC	0	0	15.7	0	0	0	0	0	0	7.1	0	0.75	5.5	4.7	0	2.2	4.4	3.1

FRAME SIZE	MOUNTING		SHAFT EXTENSION				KEY SEAT		BEARINGS		MAXIMUM WEIGHT
	E	2F	N-W	V	U	R	S	ES	LS	OS	
143TC/145TC	0	0	2.25	2.00	0.875	0.771	1.41	6205UUC3	6205UUC3	61 lbs.	

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

P.O. NO.: _____ HP: _____ RPM(SYN): _____ Hz: _____
 FRAME SIZE: _____ VOLTAGE: _____
 COMMENTS: _____ PRODUCT TYPE: JEF3C TOSHIMASH SS EGP III EFFICIENCY

 PER: _____ DATE: _____

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

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT
 - MAIN CONDUIT BOX MAY BE ROTATED IN 180° INCREMENTS
 - KEY DIMENSIONS EQUAL S x S x 1.41 (MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN, OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE

TOSHIBA
 TOSHIBA INTERNATIONAL CORPORATION
 TOTALLY-ENCLOSED FAN-COOLED
 ROUND-BODY
 3 PHASE INDUCTION MOTOR
 F1 ASSEMBLY

XT SERIES
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TYPICAL MOTOR PERFORMANCE DATA

Model: 0024FCWA34A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1715	145TC	230/460	60	3	5.20/2.60
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.0	CONT	84	B	J	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2	1.5	2.6	87.7	81.6
¾ Load	1.50	1.1	2.2	87.6	74.5
½ Load	1.00	0.7	1.8	85.4	61.6
¼ Load	0.50	0.4	1.6	70.3	41.5
No Load			1.2		15.5
Locked Rotor			20.00		63.3

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
6.12	330	325	345	0.21

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
28	15	-	6208UUC3	6208UUC3	

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

Motor Options:
Product Family:ToshWash CFace RoundBody
Mounting:C-Face Round,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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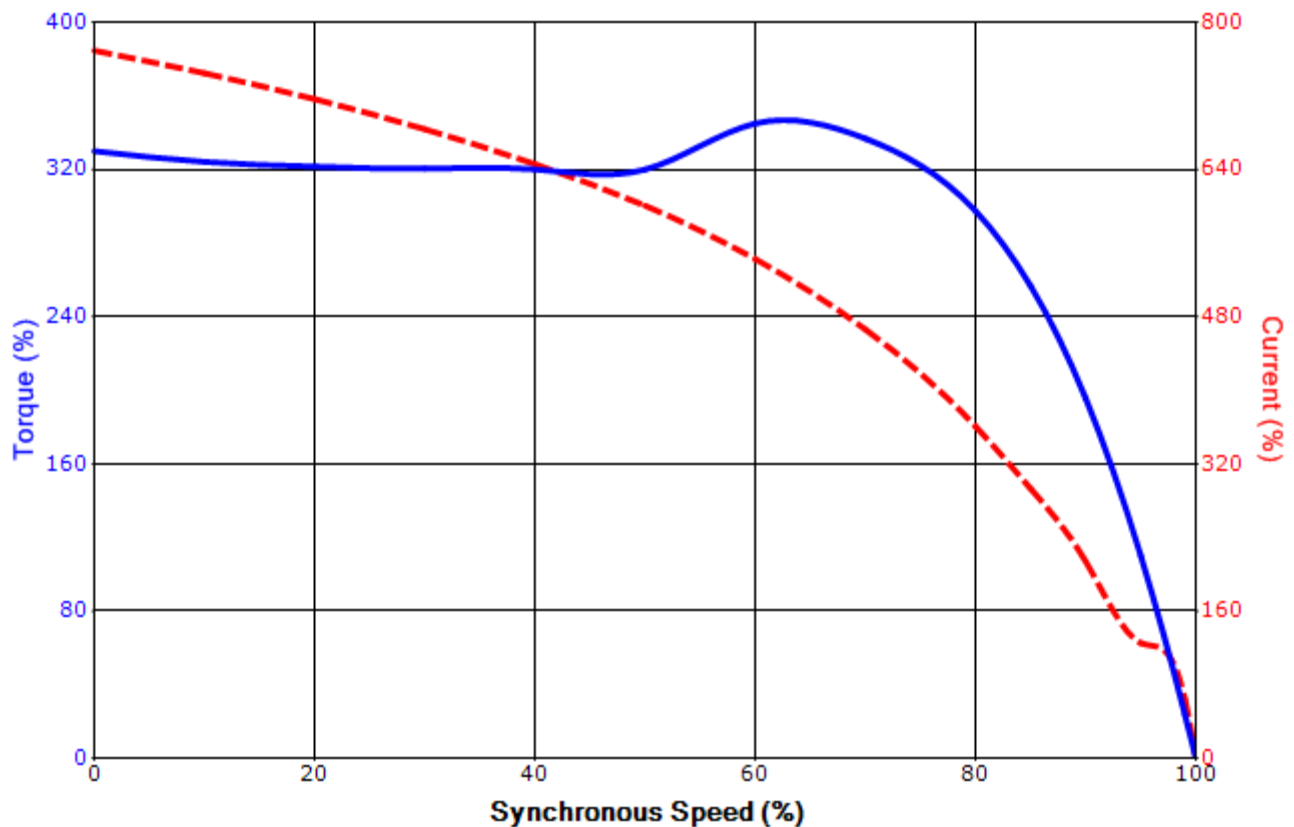
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/27/2013	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 0024FCWA34A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1715	145TC	230/460	60	3	5.20/2.60
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	44	F	1.0	CONT	84	B	J	40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
20.00	0.21	6.12	330	325			345	

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	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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Motor Connection Diagrams
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation