

UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS											
	A	B	C	D	G	J	K	M	O	P	T	Z
S586/7LQ	29.0	34.5	63.4	14.5	1.58	5.7	11.3	22.9	30.6	32.7	9.3	39.2
S586/7L	29.0	34.5	63.4	14.5	1.58	5.7	11.3	22.9	30.6	32.7	9.3	39.2
S586/7LS	29.0	34.5	60.0	14.5	1.58	5.7	11.3	22.9	30.6	32.7	9.3	39.2

FRAME SIZE	CONDUIT BOX						
	AA[NPT]	AB	AC	AE	AF	XL	XN
S586/7LQ/L/LS	3.00	36.2	27.5	26.1	1.97	23.5	18.9

FRAME SIZE	MOUNTING				SHAFT EXTENSION			KEY SEAT			BEARINGS			MAXIMUM WEIGHT
	E	2F	H	BA	N-W	V	U	R	S	ES	LS ROLLER	LS BALL	OS BALL	
S586/7LQ	11.5	22.00/25.00	1.19	10.0	11.625	11.56	4.375	3.817	1.00	10.00	NU324C3	6324C3	6320C3	6000 lbs.
S586/7L	11.5	22.00/25.00	1.19	10.0	11.625	11.56	3.875	3.309	1.00	10.00	NU322C3	6322C3	6320C3	6000 lbs.
S586/7LS	11.5	22.00/25.00	1.19	10.0	8.25	8.19	3.875	3.309	1.00	6.30	NU322C3	6322C3	6320C3	6000 lbs.

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 - "LQ" KEY DIMENSIONS EQUAL S x S x 10.00
"L" KEY DIMENSIONS EQUAL S x S x 10.00
"LS" KEY DIMENSIONS EQUAL S x S x 6.30
(MOTOR SUPPLIED WITH KEY)
 - MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME.
 - THIS DIMENSION EQUALS 2F FOR 587 MOUNTING.
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 - FRAME GROUND BOLT STANDARD.

CUSTOMER: _____ MOTOR MODEL NO.: _____

P.O. NO.: _____ HP: _____ VOLTAGE: _____ RPM(SYN.): _____ Hz: _____

FRAME SIZE: _____ PRODUCT TYPE: TEFC PREMIUM EFFICIENCY QUARRY DUTY

COMMENTS: _____

PER: _____ DATE: _____

TAG NO's: _____

<input checked="" type="checkbox"/>	STANDARD (NO AUX. BOXES)
<input type="checkbox"/>	RTD AUX. BOX
<input type="checkbox"/>	SPACE HEATER AUX. BOX
<input type="checkbox"/>	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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TOTALLY-ENCLOSED FAN-COOLED
HORIZONTAL FOOT-MOUNTED
3 PHASE INDUCTION MOTOR
F1 ASSEMBLY

XT SERIES
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TYPICAL MOTOR PERFORMANCE DATA

Model: 3006QDSB41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	6	1190	S587LQ	460	60	3	377
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	96.2	A		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	300.00	223.7	377	96.4	77.3
¾ Load	225.00	167.8	298	95.9	73.5
½ Load	150.00	111.9	229	94.5	64.9
¼ Load	75.00	55.9	175	90.1	44.5
No Load			170.5		2.7
Locked Rotor			2649		24.7

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1324	195	175	295	303.04

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
24	15		NU324C3	6320C3	

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

Motor Options:
Product Family:Quarry
Mounting:Footed,Shaft:"LQ" SHAFT
Motor Specification:Quarry Duty

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/25/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

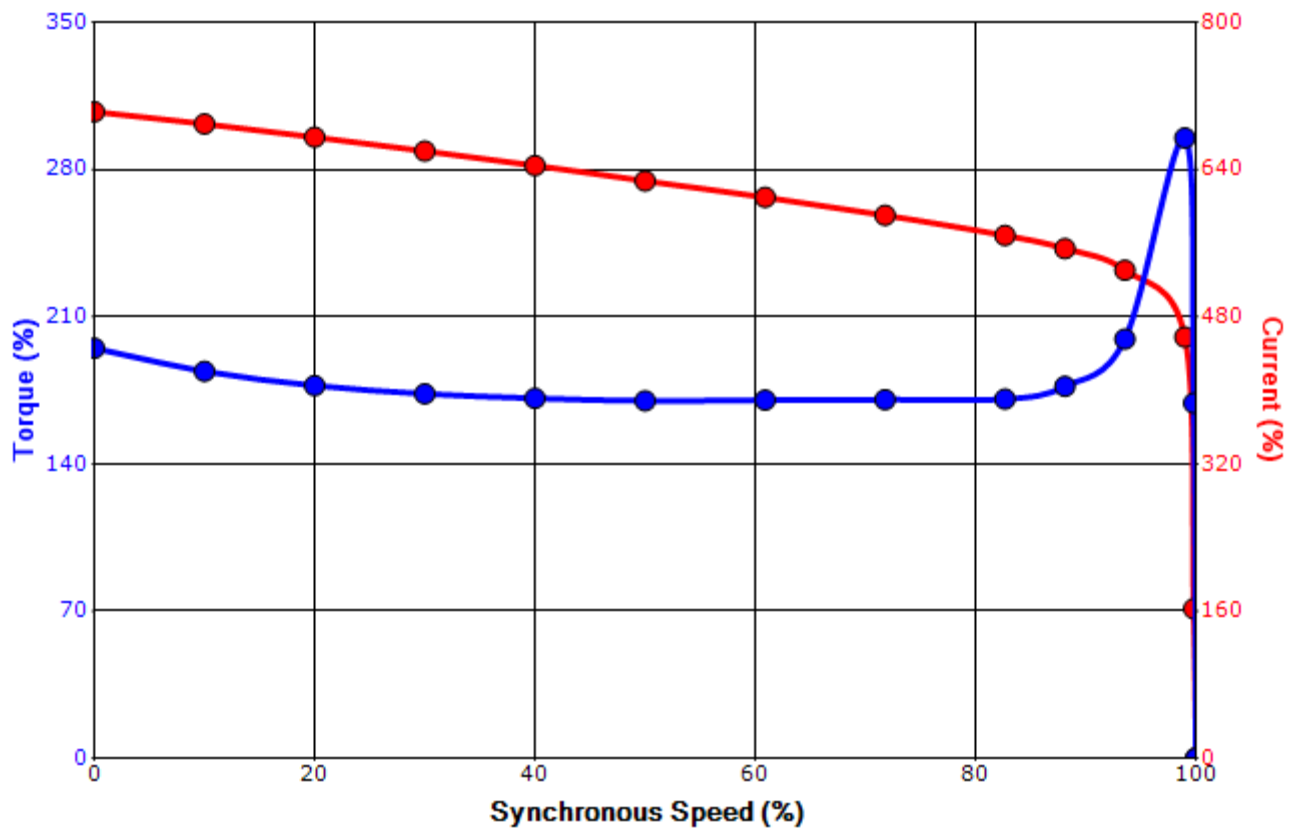
Issued Date	3/10/2022	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 3006QDSB41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
300	224	6	1190	S587LQ	460	60	3	377
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	96.2	A		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
2649	303.04	1324	195	175			295	

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.

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

Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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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.