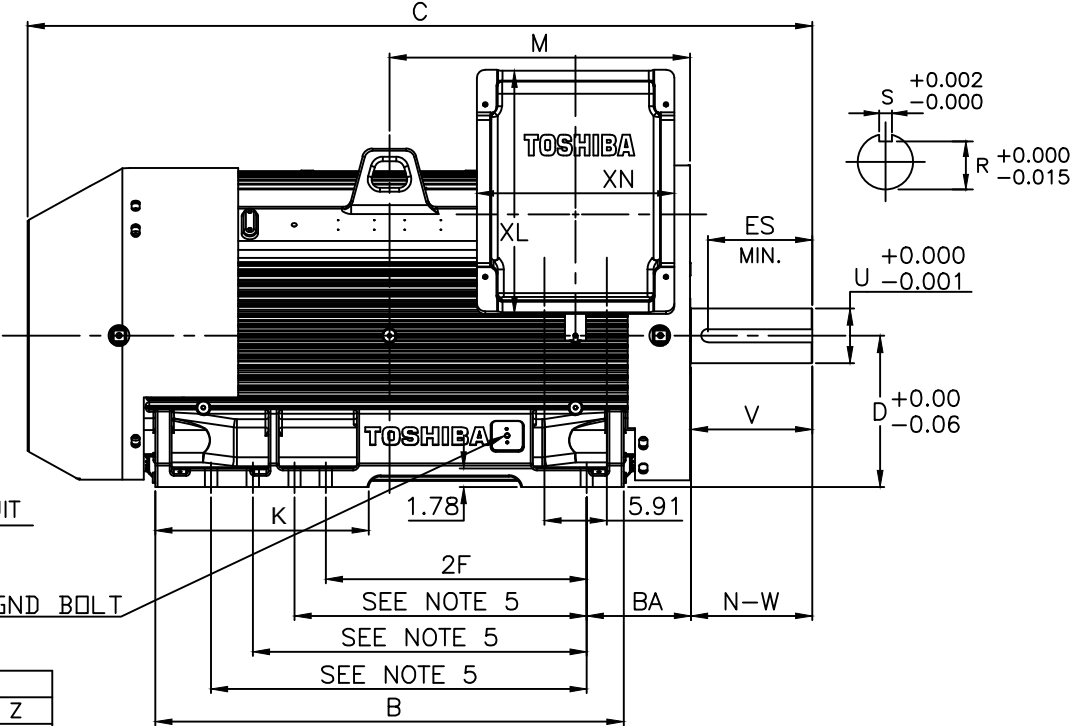
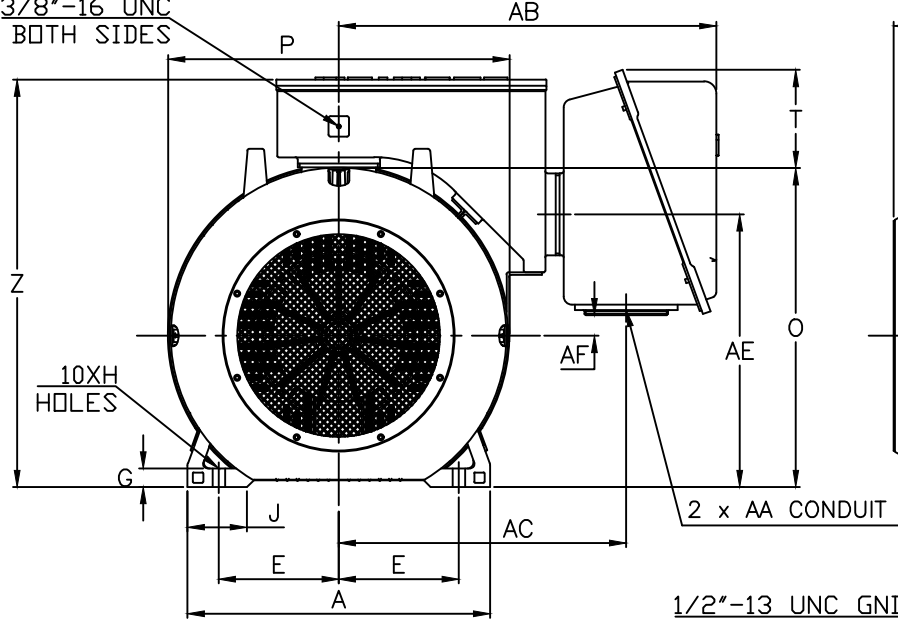


ROTATION

CCW

CW



UNITS: INCHES

FRAME SIZE	MOTOR DIMENSIONS											
	A	B	C	D	G	J	K	M	O	P	T	Z
B587/8/9/10LL	29.0	45.0	75.2	14.5	1.78	5.7	20.4	28.8	30.6	32.7	9.3	39.2
B587/8/9/10LQ	29.0	45.0	75.2	14.5	1.78	5.7	20.4	28.8	30.6	32.7	9.3	39.2
B587/8/9/10LS	29.0	45.0	71.8	14.5	1.78	5.7	20.4	28.8	30.6	32.7	9.3	39.2

FRAME SIZE	CONDUIT BOX						
	AA[NPT]	AB	AC	AE	AF	XL	XN
B587/8/9/10LL/LQ/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	
B587/8/9/10LL	11.5	25.0/28.0/32.0/36.0	1.19	10.0	11.625	11.56	5.25	4.550	1.00	10.00	NU328C3	6328C3	6320C3	8000 lbs.
B587/8/9/10LQ	11.5	25.0/28.0/32.0/36.0	1.19	10.0	11.625	11.56	4.375	3.817	1.00	10.00	NU324C3	6324C3	6320C3	8000 lbs.
B587/8/9/10LS	11.5	25.0/28.0/32.0/36.0	1.19	10.0	8.25	8.19	3.875	3.309	1.00	6.30	NU322C3	6322C3	6320C3	8000 lbs.

- NOTES:
- DIMENSION V REPRESENTS LENGTH OF STRAIGHT PART OF SHAFT.
 - MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 - "LL" KEY DIMENSIONS EQUAL S x S x 10.00
"LQ" 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 587/8/9/10 MOUNTING.
 - STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 - FRAME GROUND BOLT STANDARD.
 - AIR DEFLECTOR OPTIONAL ON 8P MOTORS

CUSTOMER:

MOTOR MODEL NO.:

P.O. NO.:

HP:

VOLTAGE:

RPM(SYN.):

Hz:

FRAME SIZE: B587/8/9/10

PRODUCT TYPE: TEFC PREMIUM EFFICIENCY QUARRY DUTY

COMMENTS:

PER:

DATE:

TAG NO's.:

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- ☒ 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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☐ CERTIFIED

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HORIZONTAL FOOT-MOUNTED

3 PHASE INDUCTION MOTOR

F1 ASSEMBLY

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TYPICAL MOTOR PERFORMANCE DATA

Model: 4506QDSC41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	6	1190	B587LL	575	60	3	450
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	96.2	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	450.00	335.6	449	96.4	77.7
¾ Load	337.50	251.7	356	96.0	73.9
½ Load	225.00	167.8	272	94.9	65.1
¼ Load	112.50	83.9	208	91.3	44.2
No Load			199.7		
Locked Rotor			3042		

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1986	205	175	305	424.25

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
24	13	85	NU328C3	6320C3	

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

Motor Options:
Mounting:Footed,Shaft:LL IEC Frame
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.

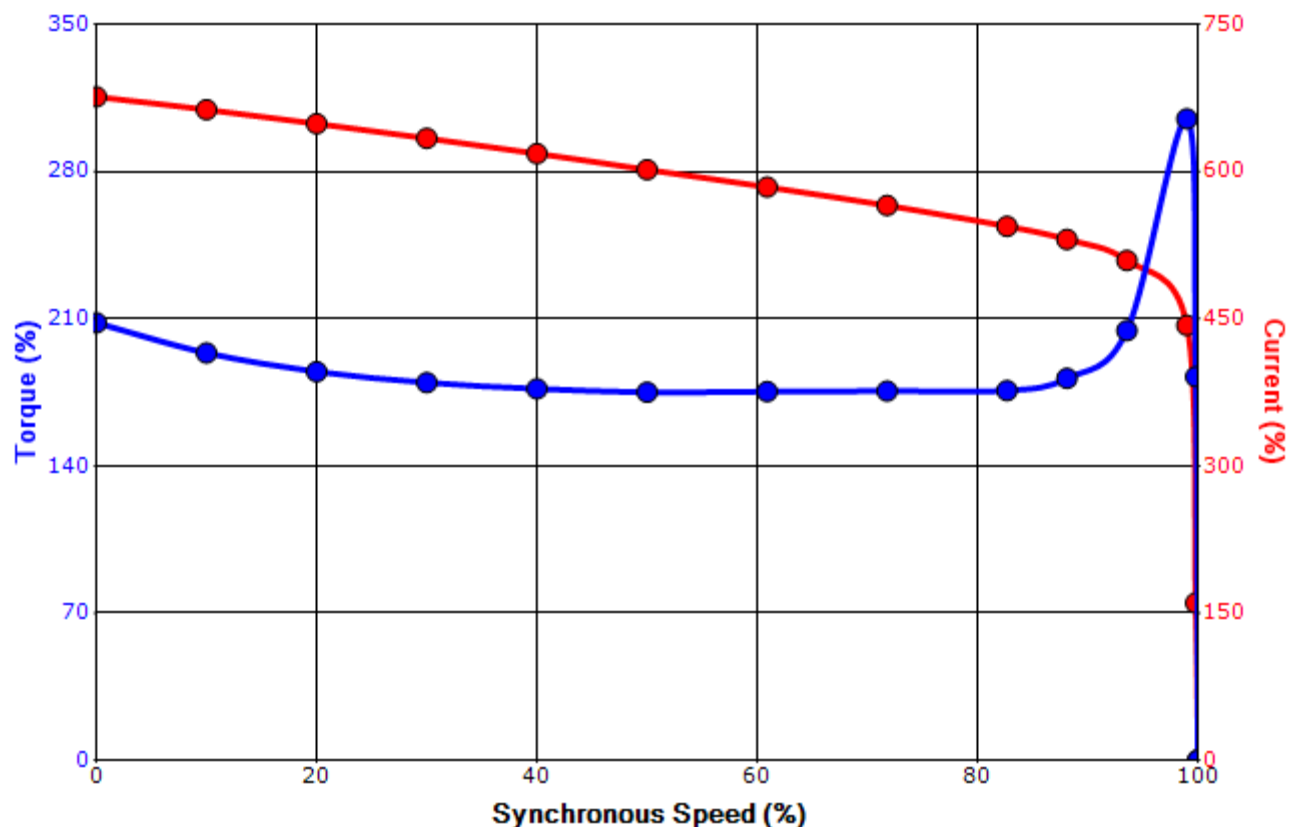
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/25/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 4506QDSC41A-R

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
450	336	6	1190	B587LL	575	60	3	450
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	96.2	-		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)		Break Down (%)		
3042	424.25	1986	205	175		305		

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
Engr. Date	6/25/2021	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.