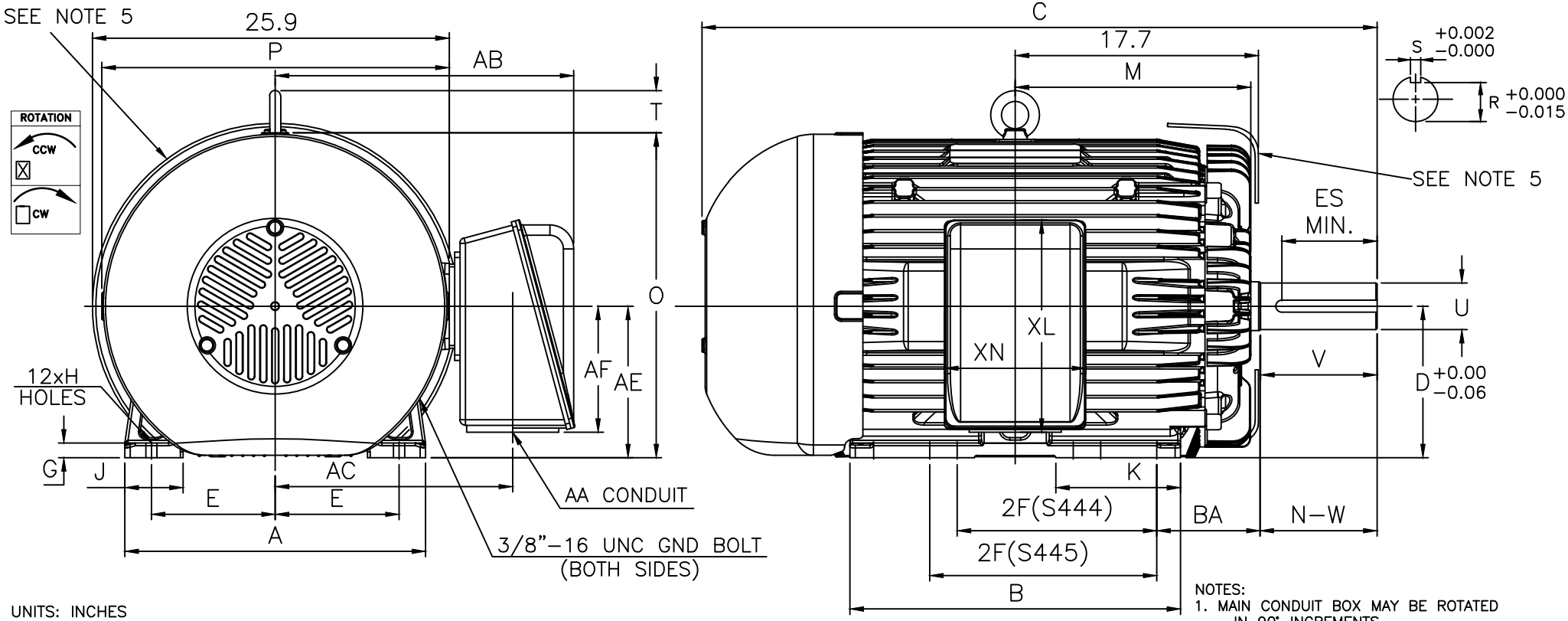

UNITS: INCHES

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
S444/5T	21.85	24.0	49.0	11.00	1.06	4.23	9.06	17.1	23.6	25.24	3.05	3.00	21.69	17.24	11.00	9.2	15.42	10.26

FRAME SIZE	MOUNTING				SHAFT EXTENSION			KEY SEAT			BEARINGS			MAXIMUM WEIGHT
	E	2F	H	BA	N–W	V	U	R	S	ES	LS BALL	LS ROLLER	OS	
S444/5T	9.00	14.50/16.50	0.812	7.50	8.50	8.46	3.375	2.88	0.875	6.91	6318C3	–	6316C3	2300 lbs.
S444/5T	9.00	14.50/16.50	0.812	7.50	8.50	8.46	3.375	2.88	0.875	6.91	–	NU318C3	6316C3	2300 lbs.

NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
2. KEY DIMENSIONS EQUAL S x S x 6.88 (MOTOR SUPPLIED WITH KEY)
3. MOTOR WEIGHT SHOWN IS MAXIMUM HORSEPOWER IN FRAME
4. STANDARD PRODUCT USE BI–DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE
5. AIR DEFLECTOR TO BE USED ON 8P–100HP MOTORS.

CUSTOMER: _____ MOTOR MODEL NO.: _____

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

FRAME SIZE: _____ PRODUCT TYPE: EQP III / EQP III 841

COMMENTS: _____

PER: _____ DATE: _____

TAG NO's.:

- [X] 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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TOSHIBA

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TOTALLY–ENCLOSED FAN–COOLED
HORIZONTAL FOOT–MOUNTED
3 PHASE INDUCTION MOTOR
F1 ASSEMBLY

XT SERIES

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MDSL0031–61 R01

Issued Date	2/15/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

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TYPICAL MOTOR PERFORMANCE DATA

Model: 1008SDSC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	8	890	S445T	575	60	3	98

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.5	A		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100.00	74.6	98	94.8	80.5
¾ Load	75.00	55.9	76	94.2	78.2
½ Load	50.00	37.3	56	92.4	71.4
¼ Load	25.00	18.6	41	86.8	52.6
No Load			31.5		3.9
Locked Rotor			587		23.7

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
590	140	115	235	122.19

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
35	15	84.8	6318C3	6316C3	

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

Motor Options:
Product Family:EQP Global SD
Mounting:Footed,Shaft:T Shaft

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	1/3/2020	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Issued Date	2/15/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

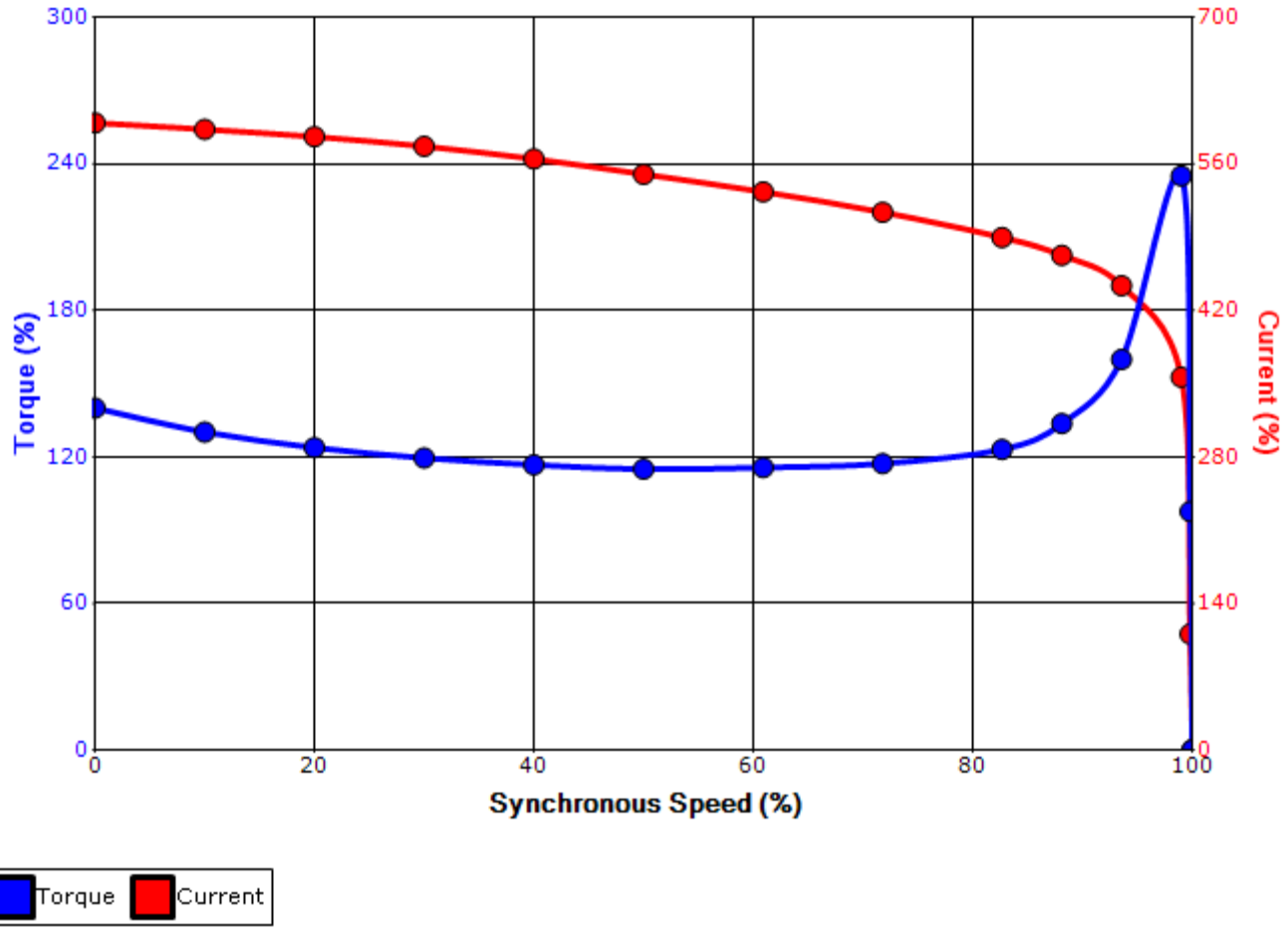
Model: 1008SDSC41A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	8	890	S445T	575	60	3	98

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.5	A		40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
587	122.19	590	140	115	235

Design Values



Customer				wk² Load Inertia (lb-ft²)	-
Customer PO				Load Type	-
Sales Order				Voltage (%)	100
Project #				Accel. Time	-

Tag:

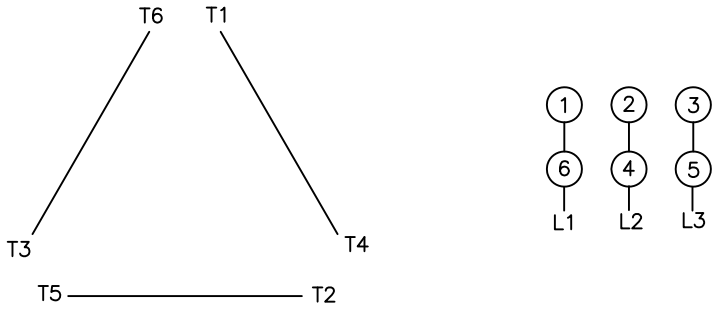
All characteristics are average expected values.

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

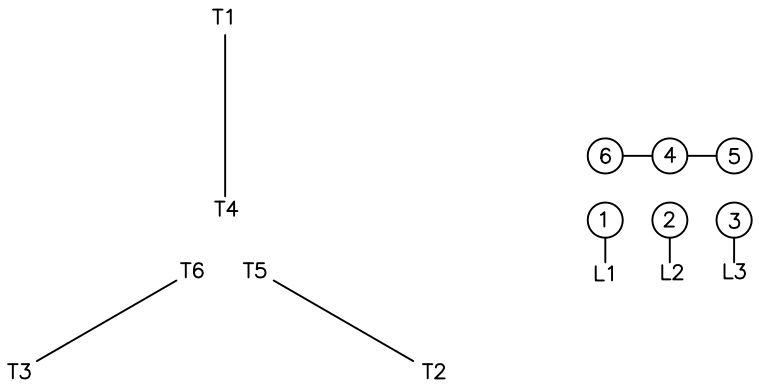
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	1/3/2020	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Motor Connection Diagrams
6 Leads

Across the Line Starting / Run - Delta:



Alternate Starting Connection - Wye:



Switch L1 and L2 to reverse rotation