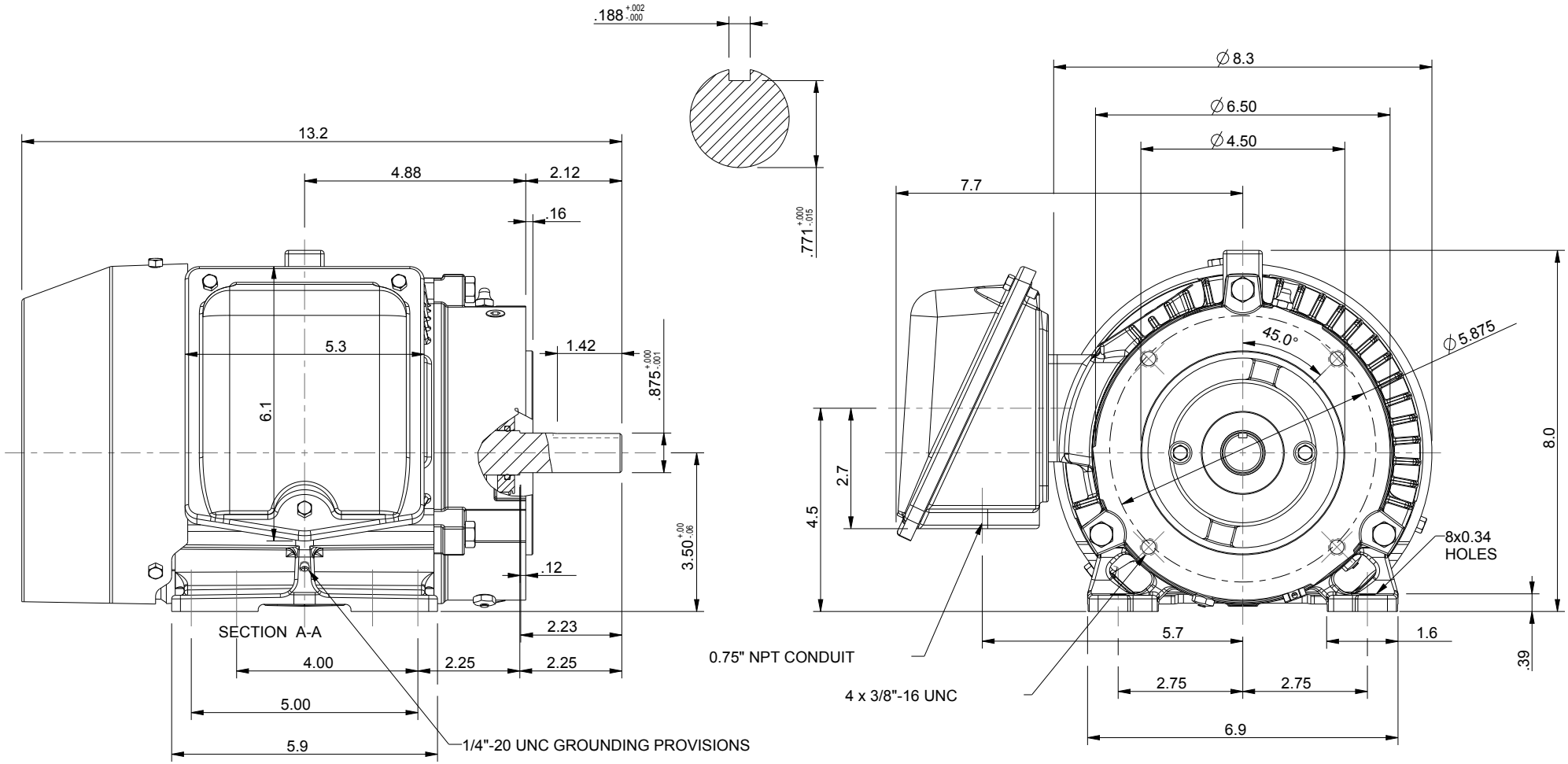

UNITS: INCHES	NOTES:
ROTATION FROM NDE	1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
X CCW CW	2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
	3. KEY DIMENSIONS EQUAL 0.188"x 0.188"x 1.38" (MOTOR SUPPLIED WITH KEY)

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 — [X] CERTIFIED

TOSHIBA PETRO-CHEMICAL DUTY EQP Global 841

www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED FOOTED C-FACED 3 PHASE INDUCTION MOTOR

143TC-145TC F1 ASSEMBLY

DRAWING #: MDSLV085-01

REV. DATE: 06/20/18 REV. #: 3 PER.: M. O'DOWD

REV. DESCRIP.:

Issued Date	12/19/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

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TYPICAL MOTOR PERFORMANCE DATA

Model: 0016XDSB42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	6	1165	145TC	460	60	3	1.7

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	82.5	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1.00	0.7	1.7	83.9	65.8
¾ Load	0.75	0.6	1.4	82.6	57.3
½ Load	0.50	0.4	1.2	79.6	48.9
¼ Load	0.25	0.2	1.0	67.7	31.7
No Load			1.1		7.5
Locked Rotor			11.7		55.6

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
4.51	250	180	350	0.18

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
35	15	-	6305C3	6305C3	67

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

Motor Options:
Product Family:EQP Global 841 CFace Footed
Mounting:C-Face 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	spinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/5/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Issued Date	12/19/2024	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

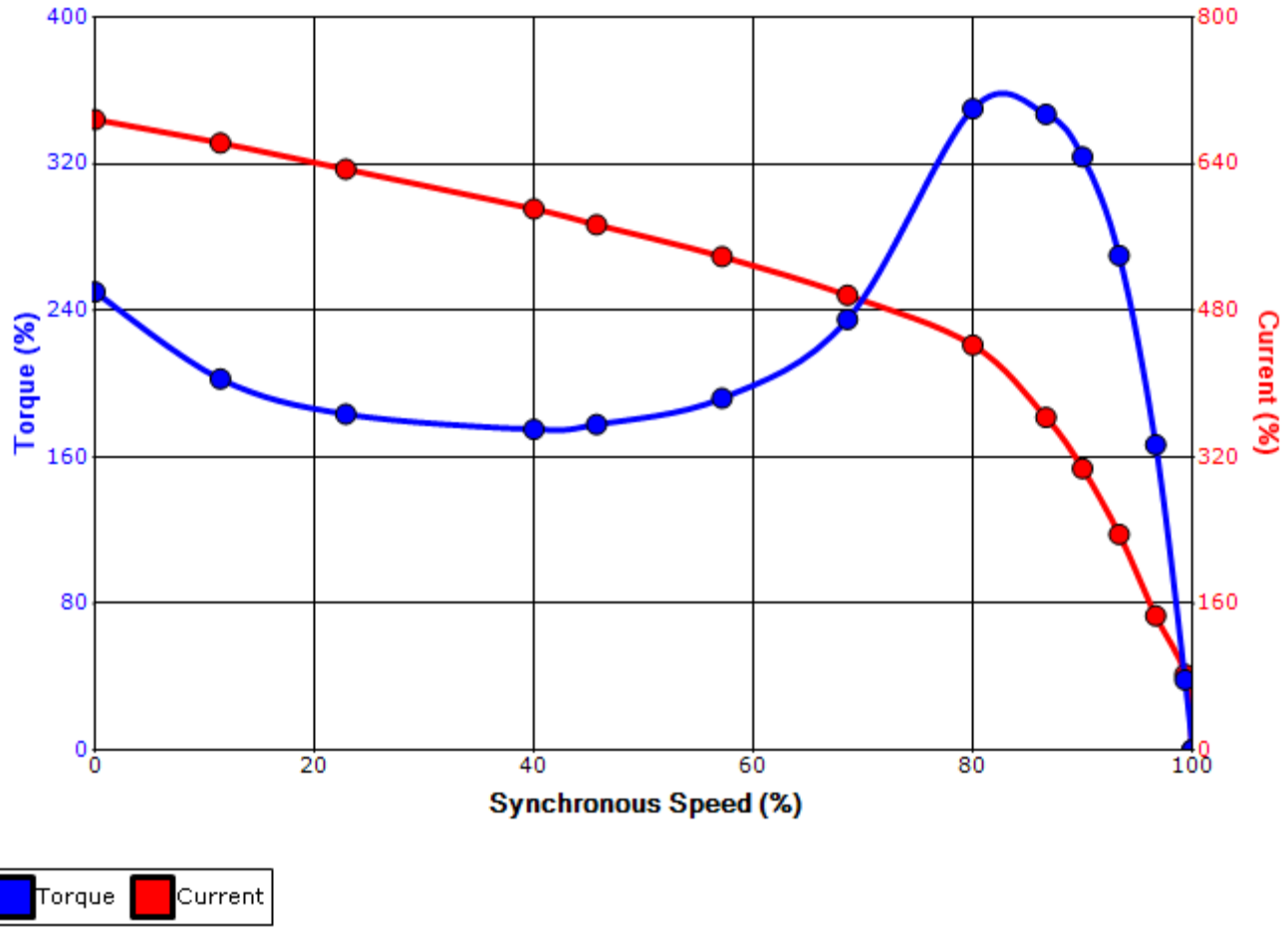
Model: 0016XDSB42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	6	1165	145TC	460	60	3	1.7

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	82.5	B		40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
11.7	0.18	4.51	250	180	350

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	spinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	8/5/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

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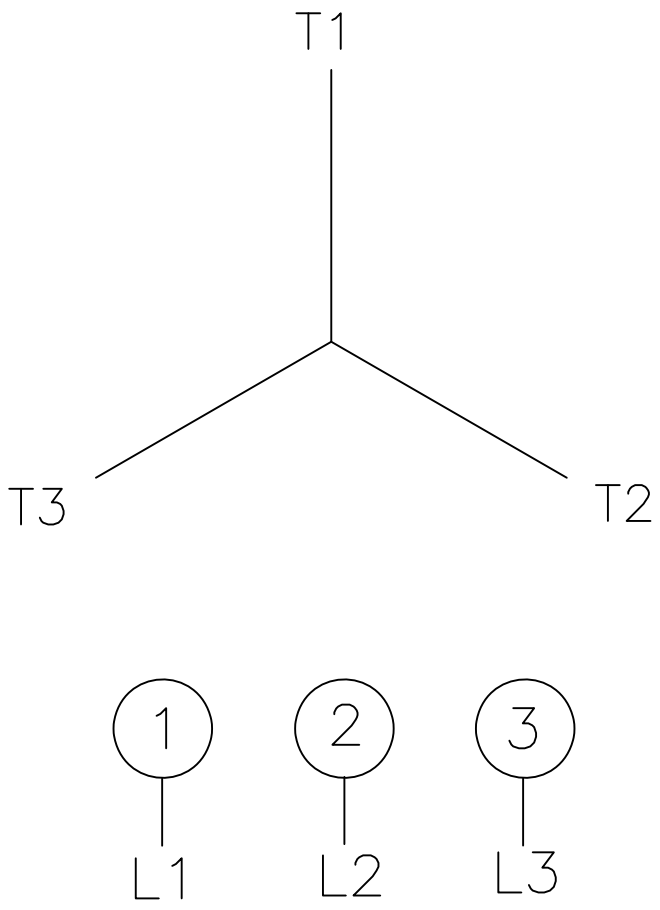
3SY

Motor Connection Diagram

3 Leads - Wye Connection

Single Voltage



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.

By: R. Murillo	Date: 4/9/08	Checked:	Date:	Revision 0