

PRODUCT INFORMATION PACKET



Model No: 445THFN18095
Catalog No: 445THFN18095
125,1200,TEBC,445T,3/60/460

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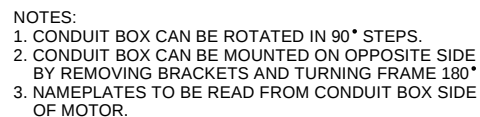
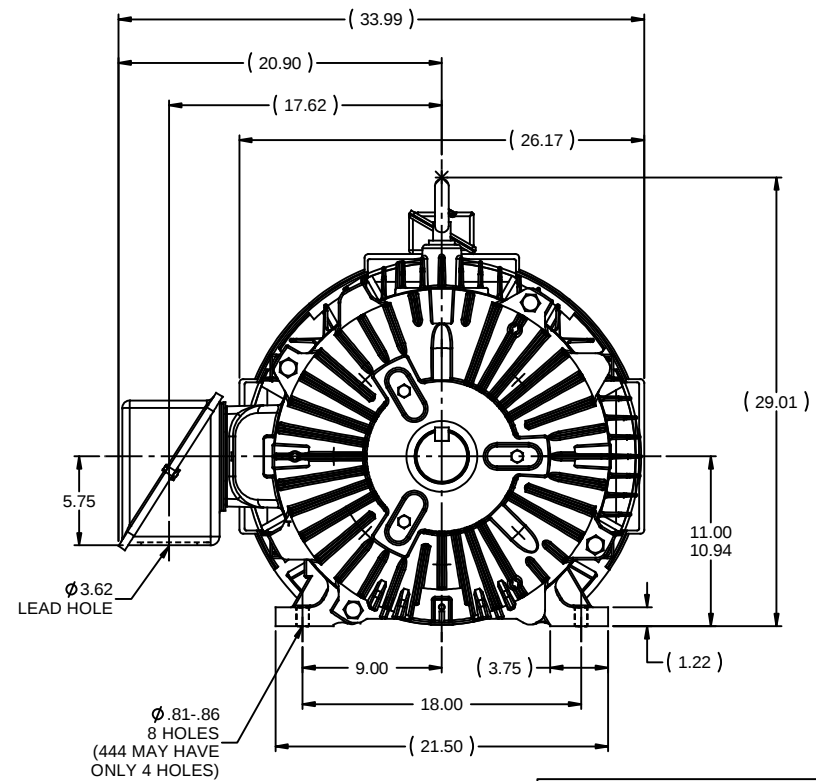
Nameplate Specifications

Phase	3	Output HP	125 Hp
Output KW	93.0 kW	Voltage	460 V
Speed	1192 rpm	Service Factor	1
Frame	445T	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Efficiency	94.1 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	153.0 A	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	H
Drive End Bearing Size	NU318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

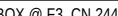
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	.04 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514878-2025	Connection Drawing	A-EE7300T

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DASH	FRAME	B	C	BS	2F	2FF
1825	444T	17.75	52.85	7.25	14.50	----
2025	444/445T	19.75	54.85	8.25	14.50	16.50

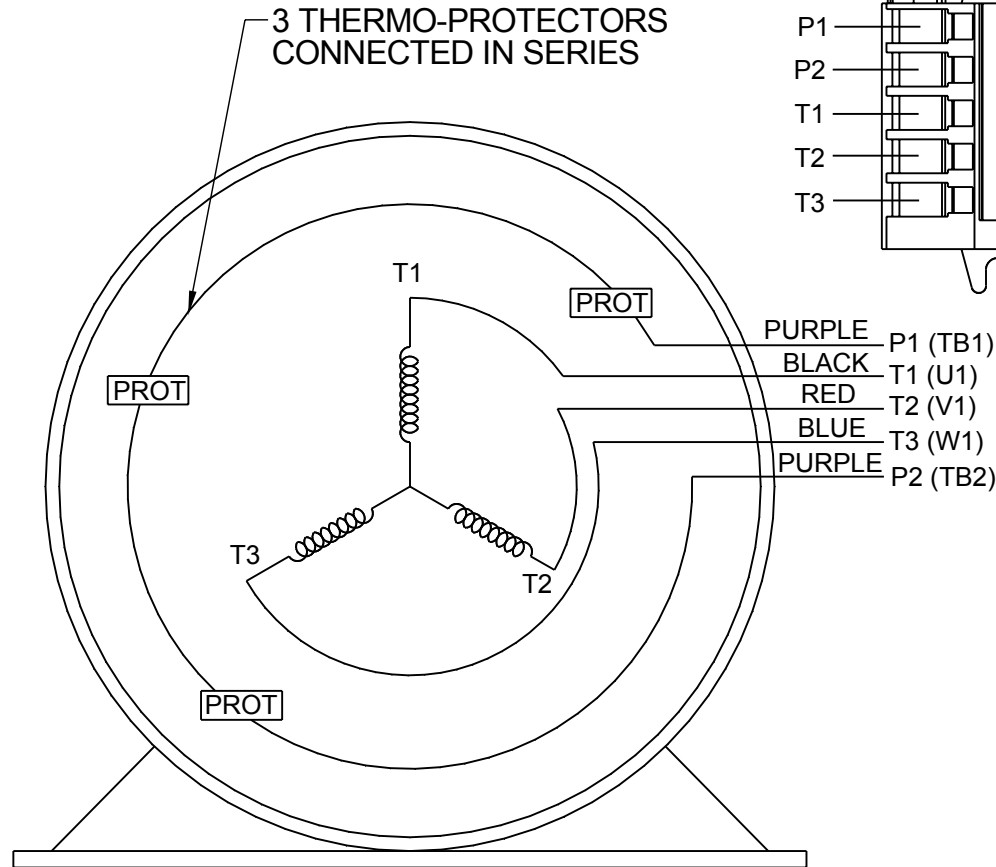
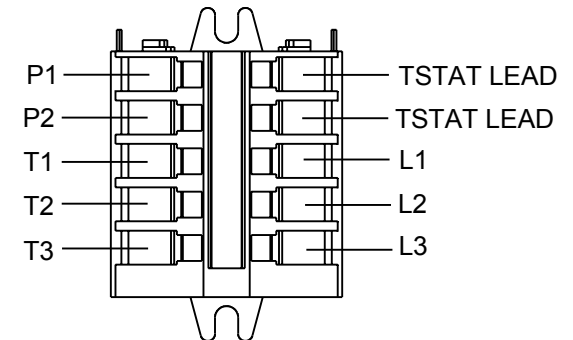
					TOLERANCES UNLESS SPECIFIED		DRAWN	DJK 11-14-1994	
				DEC	INCHES		CHK	ML 11-15-1994	
4	UPDATED FRAME	HLB 07-27-2010	MH	X	±.1		APPR	TB 11-16-1994	
3	BLOWER MOTOR ROTATED 90° C'BOX @ F3 CN 24459	PGK 07-08-1997	XX	X	±.03	TITLE OUTLINE - TEBC	SCALE	1:8	
2	REV'D TO SHOW FRAME WITH CAST-IN LIFT LUG CN 22904	MH 02-26-1997	XXX	X	±.005	444/445T FR. STD	REF		
1	NEW DRAWING 4222477	DJK 11-16-1994	XXXX	X	±.0005	MAT'L	FMF		
NO	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PAGE	OF	
THIRD ANGLE PROJECTION 			RFP	PREV			SIZE	DRAWING NO	REV
			NETWORK FILE NAME			SS514878	B	SS514878	4

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



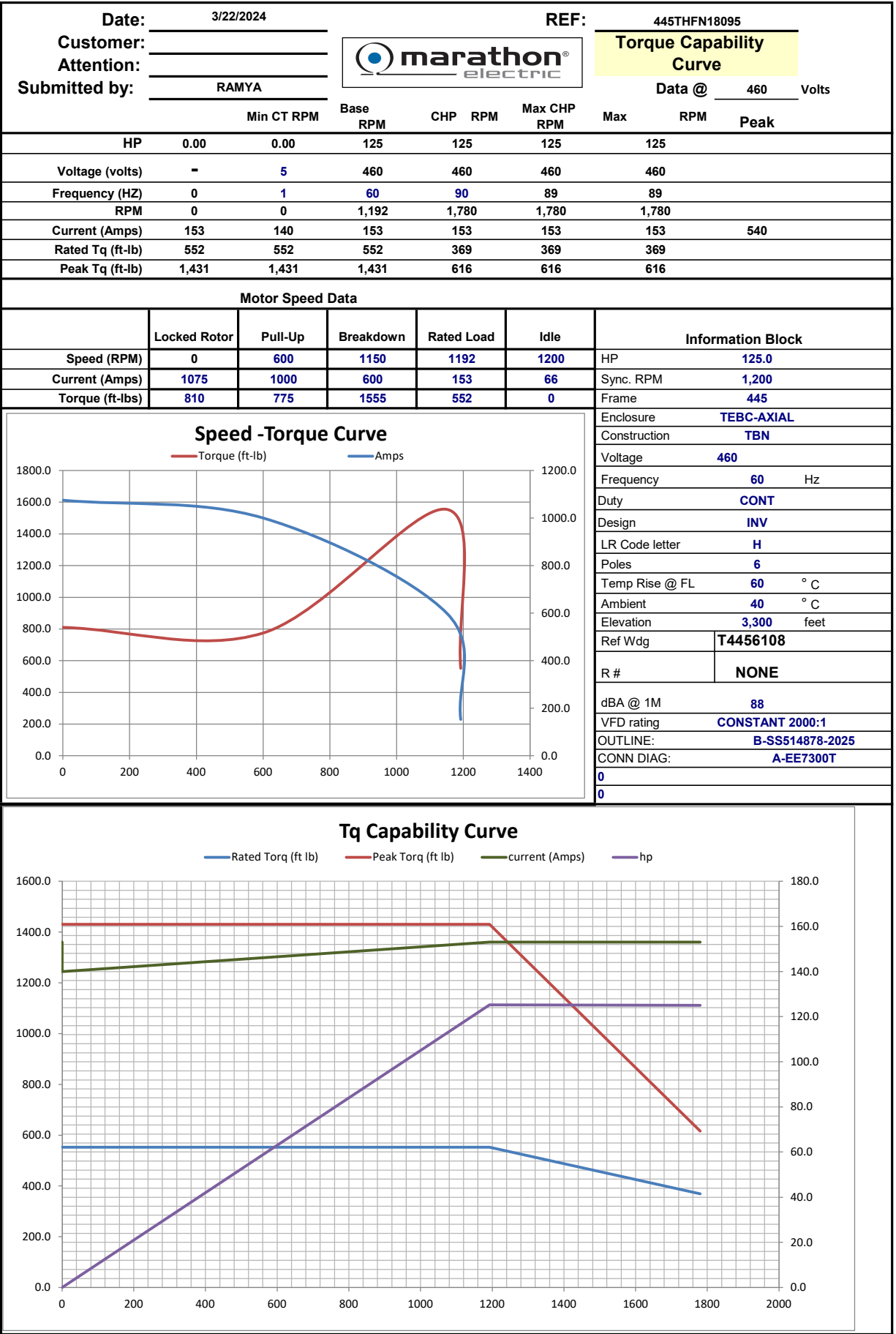
A-9806 DECAL

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8		
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DRAWN BY LZ	DATE 01-04-1994
APPROVED BY GK	DATE 01-20-1994
REFERENCE	THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300T	SHEET 1 OF 1



Speed -Torque Curve

This graph plots Torque (ft-lb) and Amps against Speed (RPM). The x-axis ranges from 0 to 1400 RPM. The left y-axis represents Torque (ft-lb) from 0.0 to 1800.0. The right y-axis represents Amps from 0.0 to 1200.0. The Torque curve (red) starts at approximately 800 ft-lb at 0 RPM, dips slightly, then rises to a peak of about 1550 ft-lb at 1150 RPM before dropping sharply. The Amps curve (blue) starts at approximately 1075 amps at 0 RPM and decreases steadily to about 66 amps at 1200 RPM.

Tq Capability Curve

This graph plots four variables against Speed (RPM) from 0 to 2000 RPM. The left y-axis represents Torque (ft-lb) from 0.0 to 1600.0. The right y-axis represents current (Amps) and hp from 0.0 to 180.0. The Rated Torq (blue) is constant at 552 ft-lb until 1192 RPM, then decreases. The Peak Torq (red) is constant at 1431 ft-lb until 1192 RPM, then decreases. The current (green) increases linearly from 153 amps at 0 RPM to 153 amps at 1192 RPM, then remains constant. The hp (purple) increases linearly from 0 hp at 0 RPM to 125 hp at 1192 RPM, then remains constant.