

PRODUCT INFORMATION PACKET

Model No: 445TSTFN16047
Catalog No: 445TSTFN16047
200,1800,TEFC,445TSD,3/60/460YD

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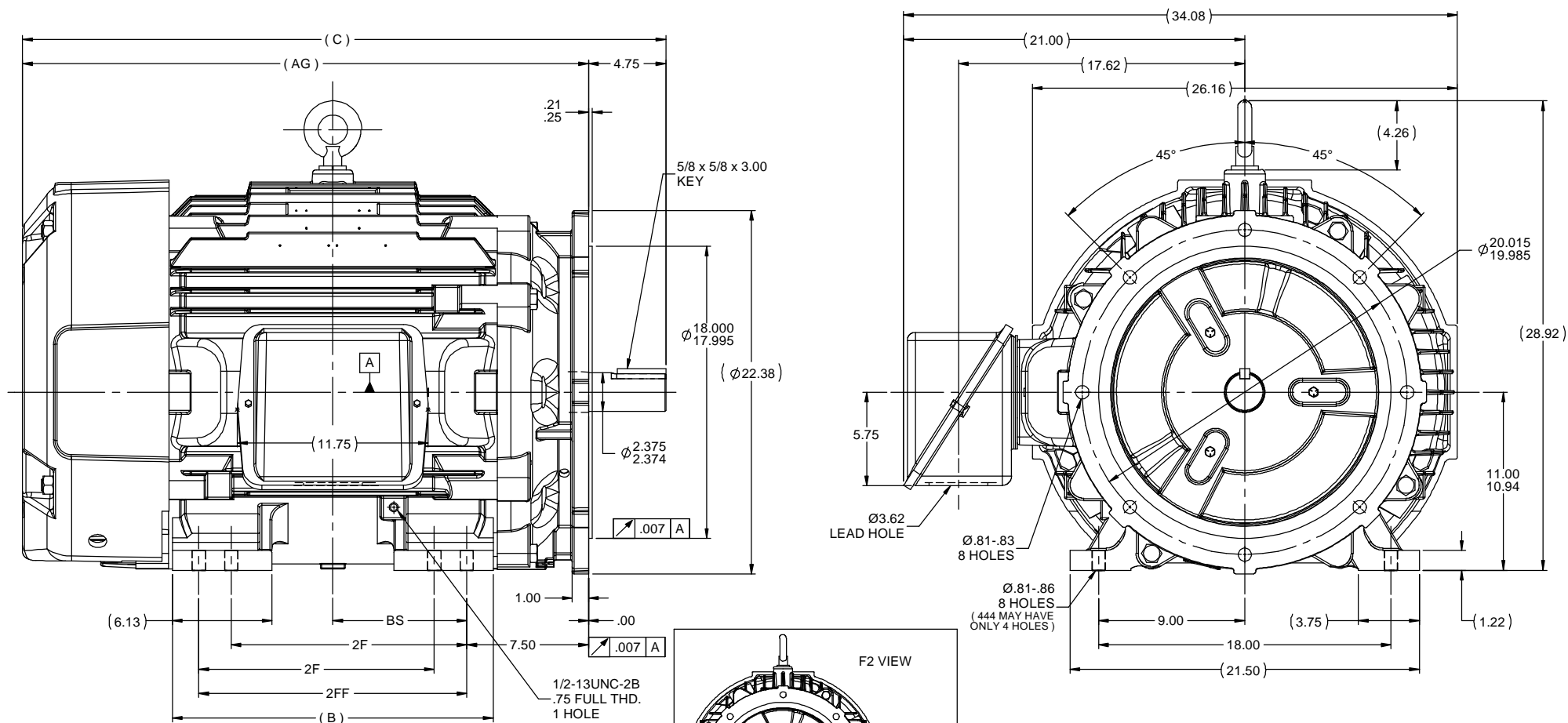
Nameplate Specifications

Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	460 V
Current	226.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445TSD	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.018 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Assembly/Box Mounting	F2/F1 CAPABLE
Connection Drawing	A-EE7340	Outline Drawing	B-SS514476-2025

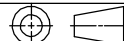
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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

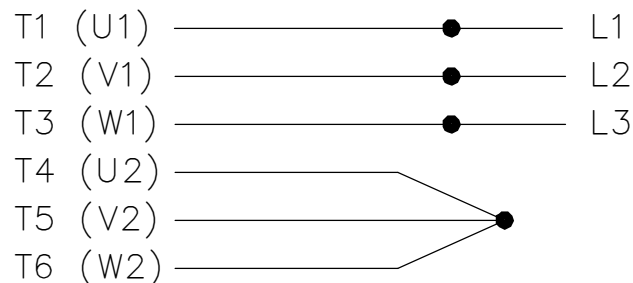
7		UPDATED FRAME & ADDED F2 VIEW MU 104762	JJB 11/16/2011	TOLERANCES UNLESS SPECIFIED		marathon [®] electric	DRAWN SMC 03-17-1993	
6		CHG. FAN GUARD & REV. 'C' DIM. CN 39335	RWR 1/7/2008	ML	DEC		CHK ML 03-17-1993	
5		REV. CAST FLANGE HOLES TO MCH'D HOLES CN 37677	MSG 4/26/2004	ML	X	±.1	APPR TB 03-17-1993	
4		REVISED TO SHOW NEW FRAME & LIFT LUG CN 21946	PGK 1/20/1997	XX	±.03	TITLE OUTLINE - TFN 440TSD FR. - STD. - D'FLANGE	SCALE 1:6	
3		DIM. Ø.81-.86 4 HOLES WAS 6 HOLES CN 18813	MRB 10/10/1995	XXX	±.005		REF	
2		REVISED -1825 2F DIMENSION TO 14.50 CN 16511	KL 10/11/1993	XXXX	±.0005	MATL	FMF	
NO		REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF
				RFP	03-17-1993	PREV	SIZE B	DRAWING NO SS514476
				NETWORK FILE NAME SS514476				REV 7

THIRD ANGLE PROJECTION

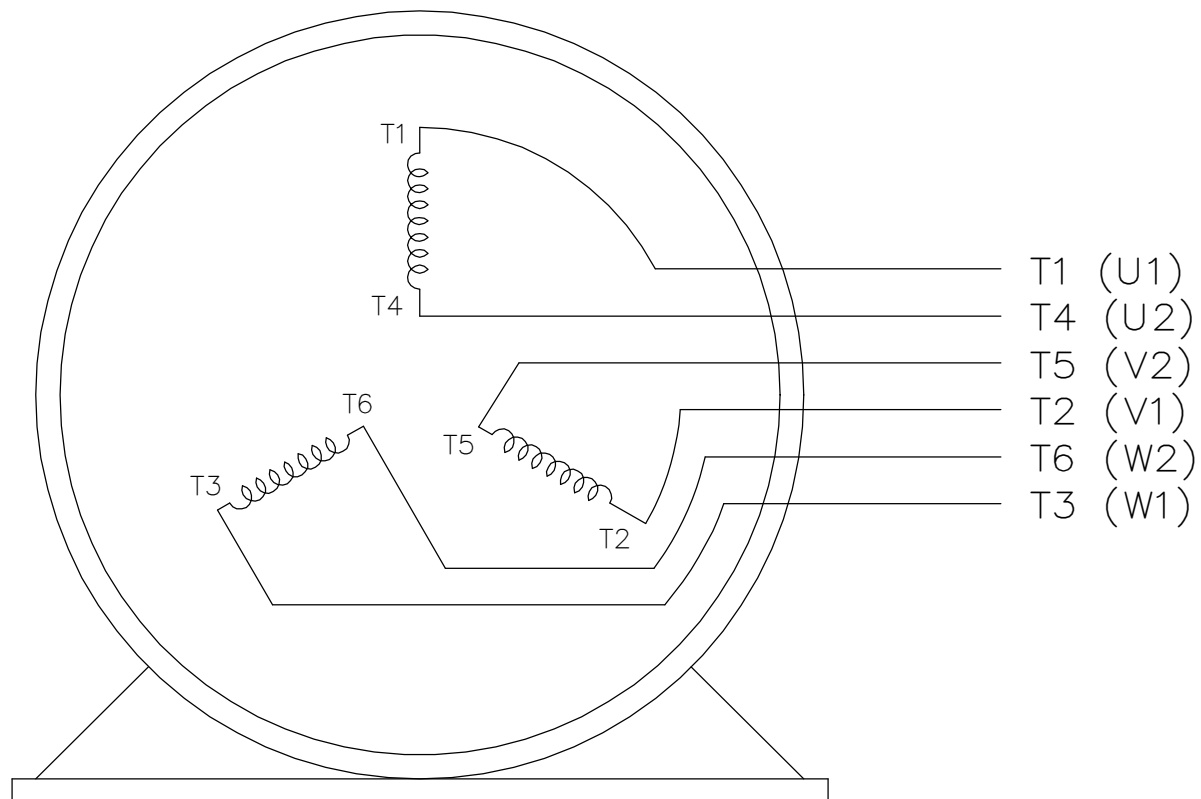
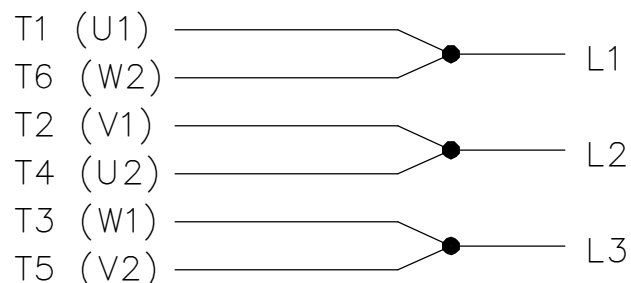


THREE PHASE
WYE START DELTA RUN

START





RUN



VIEW OF TERMINAL END

NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARANTHESES

DRAWING REVISION F	REVISION BY RTT	REV DATE/© DATE 05-29-2019	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7° 30" .XX ±0.02 [±0.5] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 ° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200/ 5.1 INCH mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LZ	 Regal Beloit America, Inc.		
ECO ECO-0167538	APPROVED BY JWA	DATE 05-29-2019		DATE 01-06-1994	DESCRIPTION CONNECTION DIAGRAM 3<MOD-DIAM> - WYE START DELTA RUN		
ECO DESCRIPTION UPDATED TITLE BLOCK				APPROVED BY GK			
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				REFERENCE			
			THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7340	SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____
ORDER #: _____
CONN. DIAGRAM: A-EE7340
OUTLINE: B-SS514476-2025
WINDING: T4454231 NONE 1
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 445TSTFN16047
CAT #: N/A
CUSTOMER PART #: _____
MOUNTING: F2/F1 CAPABLE
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1800	1785	445TSD	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	226	WYE START DELTA RUN	CONT	F	1.15	40	7500

F.L. EFF	96.2	3/4 LD EFF	96.2	1/2 LD EFF	95.8	GTD EFF		ELECT. TYPE	
F.L. PF	86.0	3/4 LD PF	84.0	1/2 LD PF	77.0		95.8	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
589 LB-FT	1,425	975 LB-FT 166%	1,450 LB-FT 246%	70	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APPROX.
66 dBA	75 dBA	59.0 LB-FT²	1250 LB-FT²	25 SEC.	2	2350 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
D-FLANGE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
6313	6313	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.013	0.011	0.13	0.14	3.706	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
		ENCODER: NONE NONE NONE NONE PPR
PREPARED BY: _____ DATE: 8/4/2022		BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE UL: V-INS, CONST UL REC

FORM: 3531 REV_4 2/27/06