

PRODUCT INFORMATION PACKET

Model No: 445TSTFN14016
Catalog No: 445TSTFN14016
150,3000,TEFC,445TS,3/50/415YD

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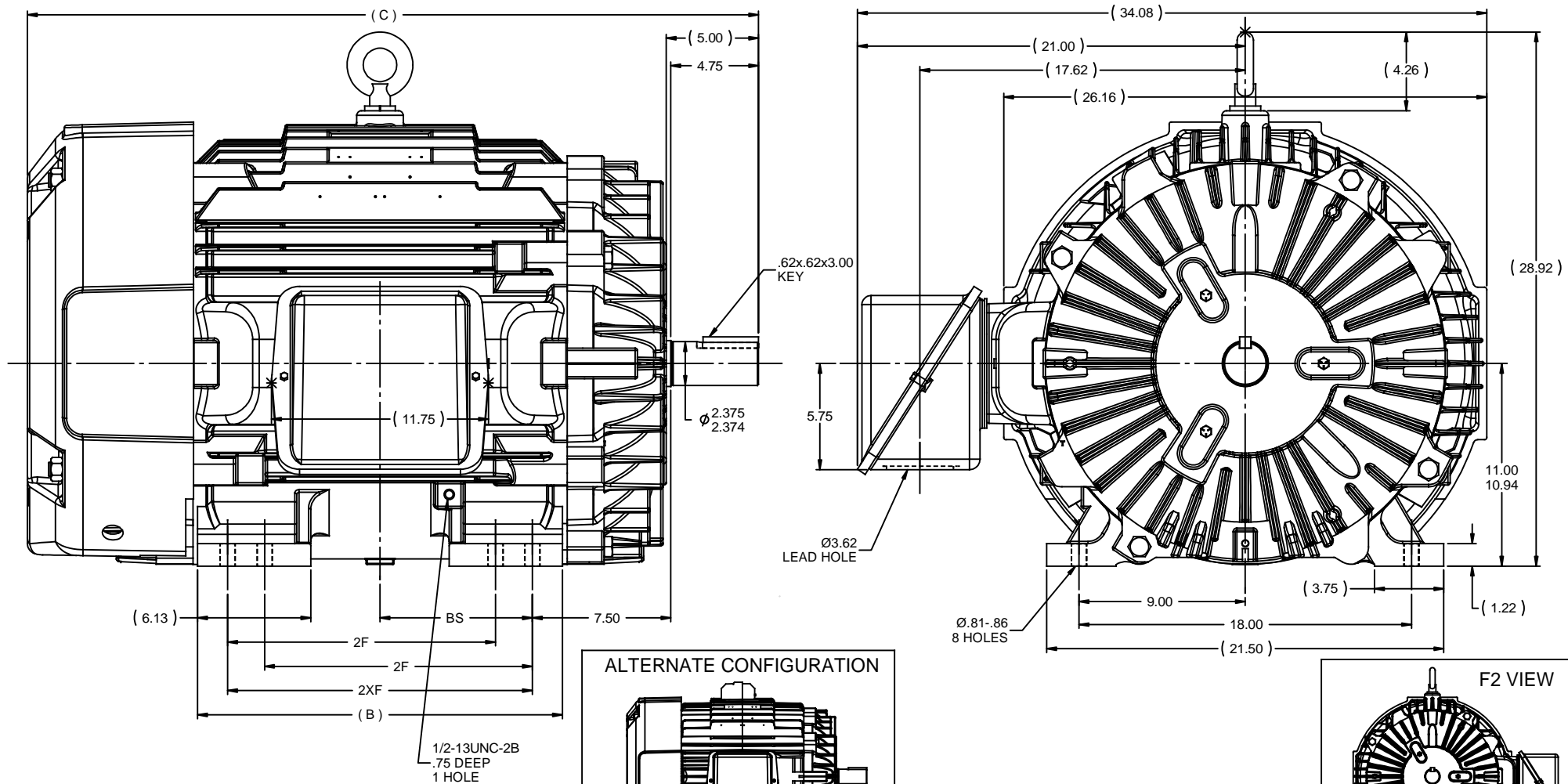
Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	50 Hz	Voltage	415 V
Current	183.0 A	Speed	2975 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

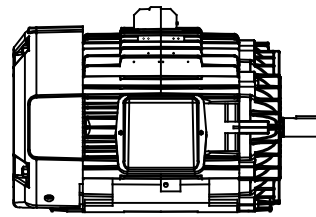
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.0135 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7340	Outline Drawing	B-SS514023-2025

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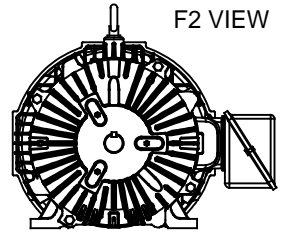


- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

ALTERNATE CONFIGURATION



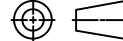
F2 VIEW



10	CORRECTED C'BOX DIM. 5.75 WAS 5.56	ISAAC 09-5049	JJB 2/4/2011	TOLERANCES UNLESS SPECIFIED	DEC INCHES		DRAWN RM 06-25-1991
9	UPDATED WITH NEW FRAME, 28.92 DIMENSION WAS 26.52.	ADDED PREVIOUS CONFIG. & F2 VIEW PER ISAAC 09-5049	JJB 12/16/2008	MH X ±.1			CHK TLB 06-25-1991
8	CHG. FAN GUARD & REV. C DIM. PER CN 39335	RWR 01/22/2007	ML XX ±.03				APPR ML 06-25-1991
7	REVISED LEAD DIM FROM Ø4.12 PER CN 32179	CTO 03/24/2003	ML XXX ±.005				SCALE 1:5.25
6	REISSUE - 26.52 DIMENSION WAS 24.19	CN 21946	KL 05/19/1999	XXXX ±.0005			REF
NO	REVISION	BY & DATE	CHK ANG ±1/2°	FINISH			PAGE OF
			RFP 06-25-1991	PREV			REV
			NETWORK FILE NAME	SS514023			

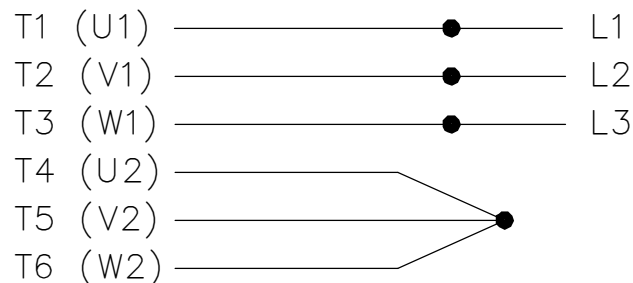
DASH	FRAME	B	C	2F	2XF	BS
1825	444TS	17.75	37.60	14.50	---	7.25
2025	444/445TS	19.75	39.60	14.50	16.50	8.25

THIRD ANGLE
PROJECTION

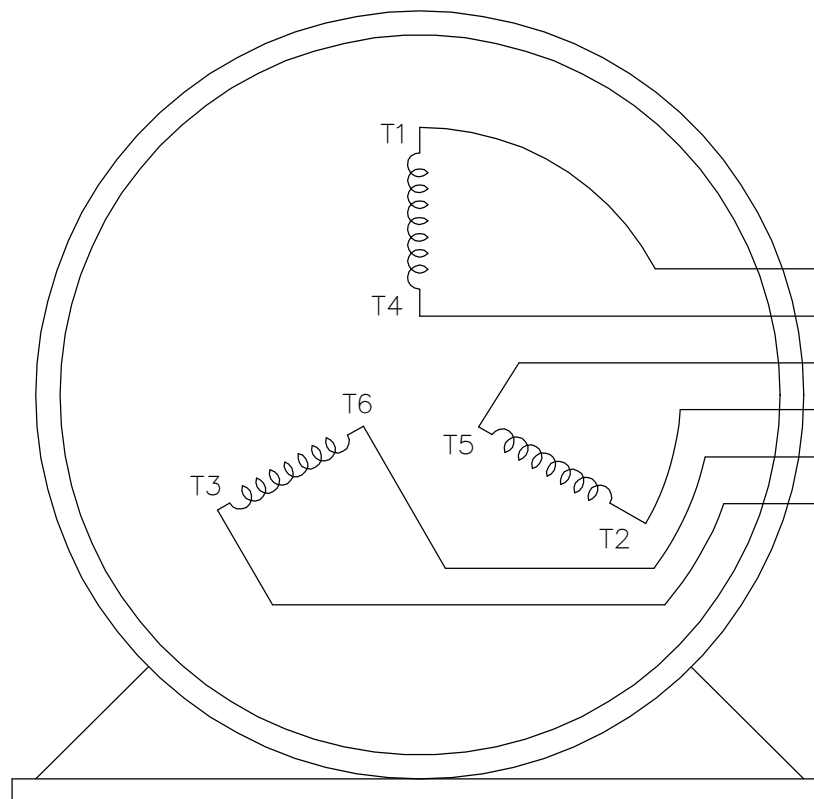
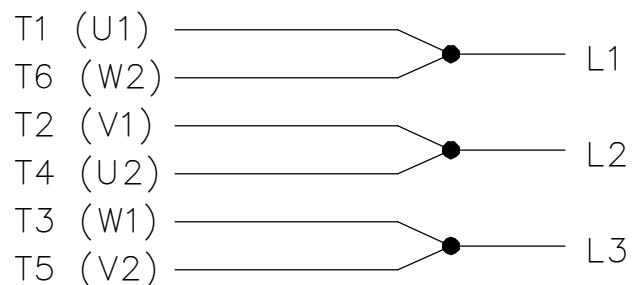


THREE PHASE
WYE START DELTA RUN

START




RUN



T1 (U1)
T4 (U2)
T5 (V2)
T2 (V1)
T6 (W2)
T3 (W1)

NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARANTHESES

DRAWING REVISION F	REVISION BY RTT	REV DATE/© DATE 05-29-2019	TOLERANCES (EXCEPT AS NOTED):				DRAWN BY LZ	 Regal Beloit America, Inc.
ECO ECO-0167538	APPROVED BY JWA	DATE 05-29-2019	DEC. .X ±0.1 [±3] .XX ±0.02 [±0.5] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013]	INCH ±0.1 [±3] ±0.02 [±0.5] ±0.005 [±0.13] ±0.0005 [±0.013]	mm [±3] [±0.5] [±0.13] [±0.013]	ANGLE ±7° 30"	DATE 01-06-1994	
ECO DESCRIPTION			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				APPROVED BY GK	DESCRIPTION CONNECTION DIAGRAM 3<MOD-DIAM> - WYE START DELTA RUN
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			SIZE A				REFERENCE	PROCESS/FINISH
			DRAWING NUMBER EE7340					SHEET 1 OF 1



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

DATA VOLTS: 415

CERTIFICATION DATA SHEET

CUSTOMER: _____
ORDER #: _____
CONN. DIAGRAM: A-EE7340
OUTLINE: B-SS514023-2025
WINDING: T445292 NONE 3
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 445TSTFN14016
CAT #: N/A
CUSTOMER PART #: _____
MOUNTING: F1/F2 CAPABLE
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	3000	2975	445TS	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	50	415	183	WYE START DELTA RUN	CONT	F	1.15	50	3300

F.L. EFF	95.0	3/4 LD EFF	94.5	1/2 LD EFF	93.6	GTD EFF		ELECT. TYPE	
F.L. PF	88.5	3/4 LD PF	86.0	1/2 LD PF	79.0			SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
265 LB-FT	1,259	425 LB-FT 160%	875 LB-FT 330%	65	

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APPROX.
78 dBA	87 dBA	33.5 LB-FT²	200 LB-FT²	15 SEC.	2	2875 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	RED (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
0.015505021	0.013119633	0.153857514	0.116884003	5.175098857	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 NONE
	FT-LB: NA VOLTAGE: NONE HZ:
	UL: NONE

FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 8/4/2022
Customer:
Attention:
Submitted by:



445TSTFN14016

90975 FAN

Submittal

Data @ 415 V

Motor Load Data

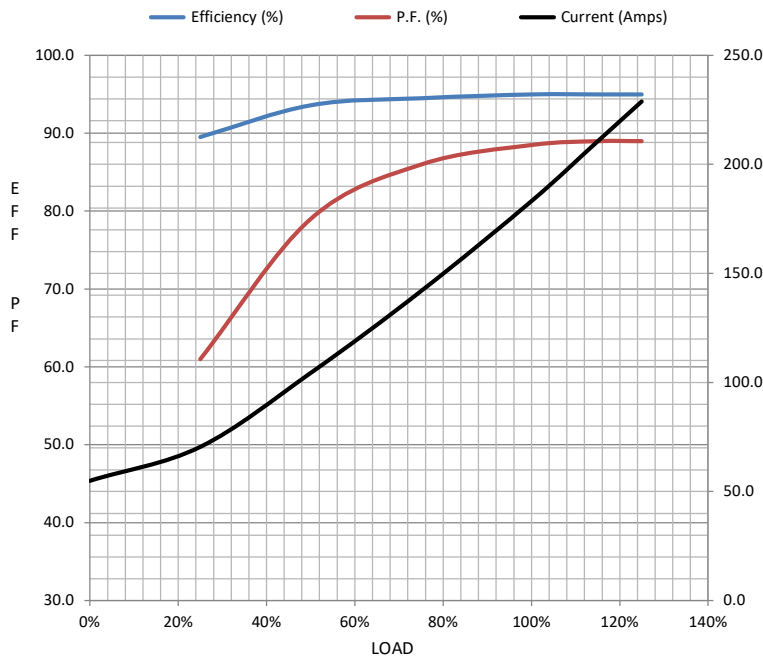
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	54.9	70.5	104	142	183	211	229	1,259	
Torque (ft-lb)	0.00	66.0	132	198	265	305	332	425	
RPM	3000	2995	2988	2982	2975	2,972	2968	0	
Efficiency (%)		89.5	93.6	94.5	95.0	95.0	95.0		
P.F. (%)	7.0	61.0	79.0	86.0	88.5	89.0	89.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	2850	2975	3000
Current (Amps)	1,259	1,145	778	183	54.9
Torque (ft-lb)	425	350	875	265	0.00

Information Block

HP	150.0			
Sync. RPM	3000			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	415 V			
Frequency	50 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	50 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	33.5 Lb-Ft²			
Ref Wdg	T445292 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514023-2025			
Conn. Diag	A-EE7340			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0130	0.0110	0.1290	0.0980	4.3390



Speed -Torque Curve

