

PRODUCT INFORMATION PACKET

Model No: 445THFCD9042

Catalog No: W118-P

Severe Duty Motors, , HP, Ph, Hz, V, RPM, 445TCV Frame



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Nameplate Specifications

Technical Specifications

Outline Drawing

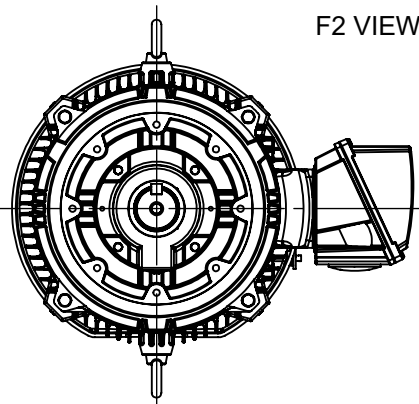
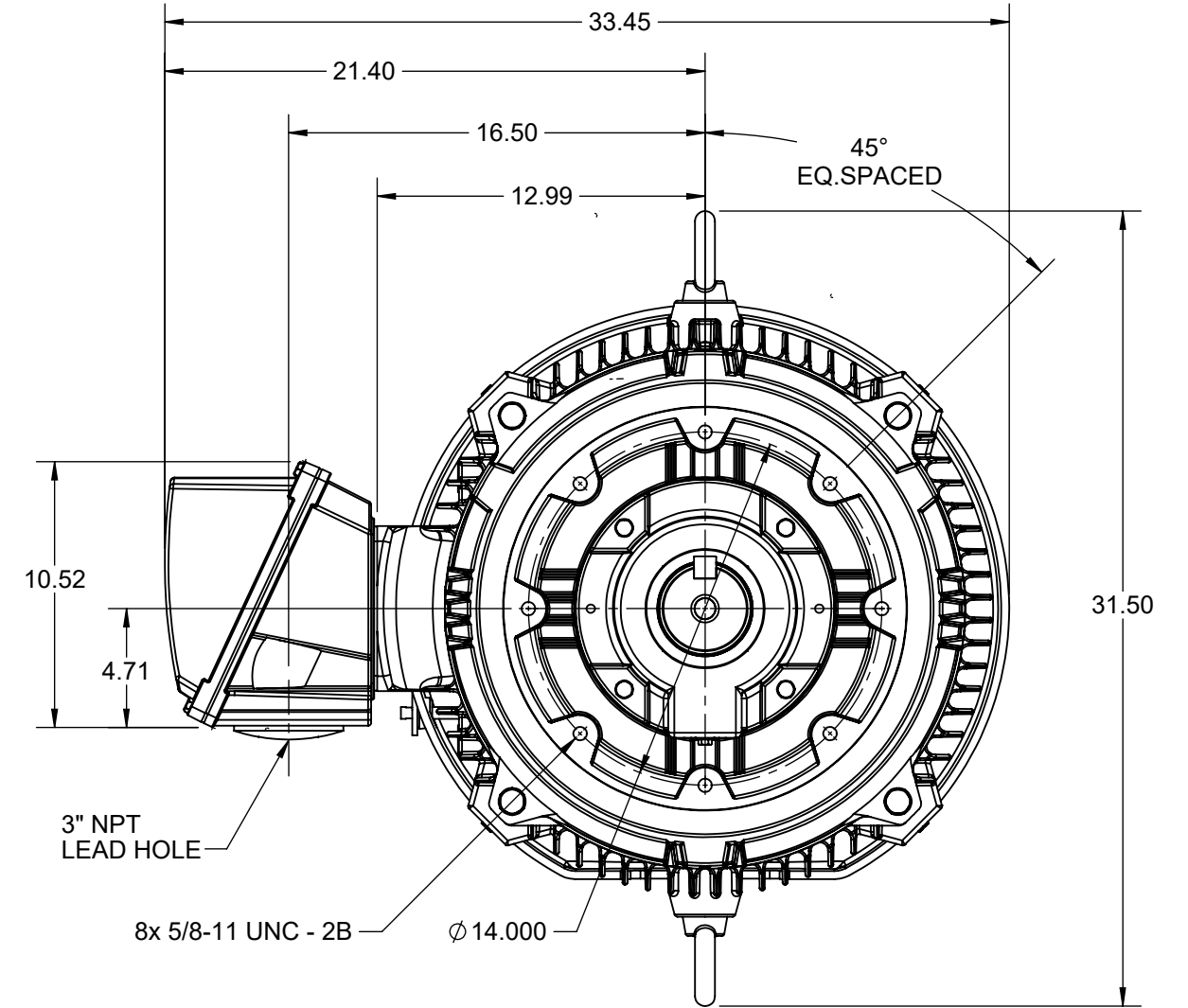
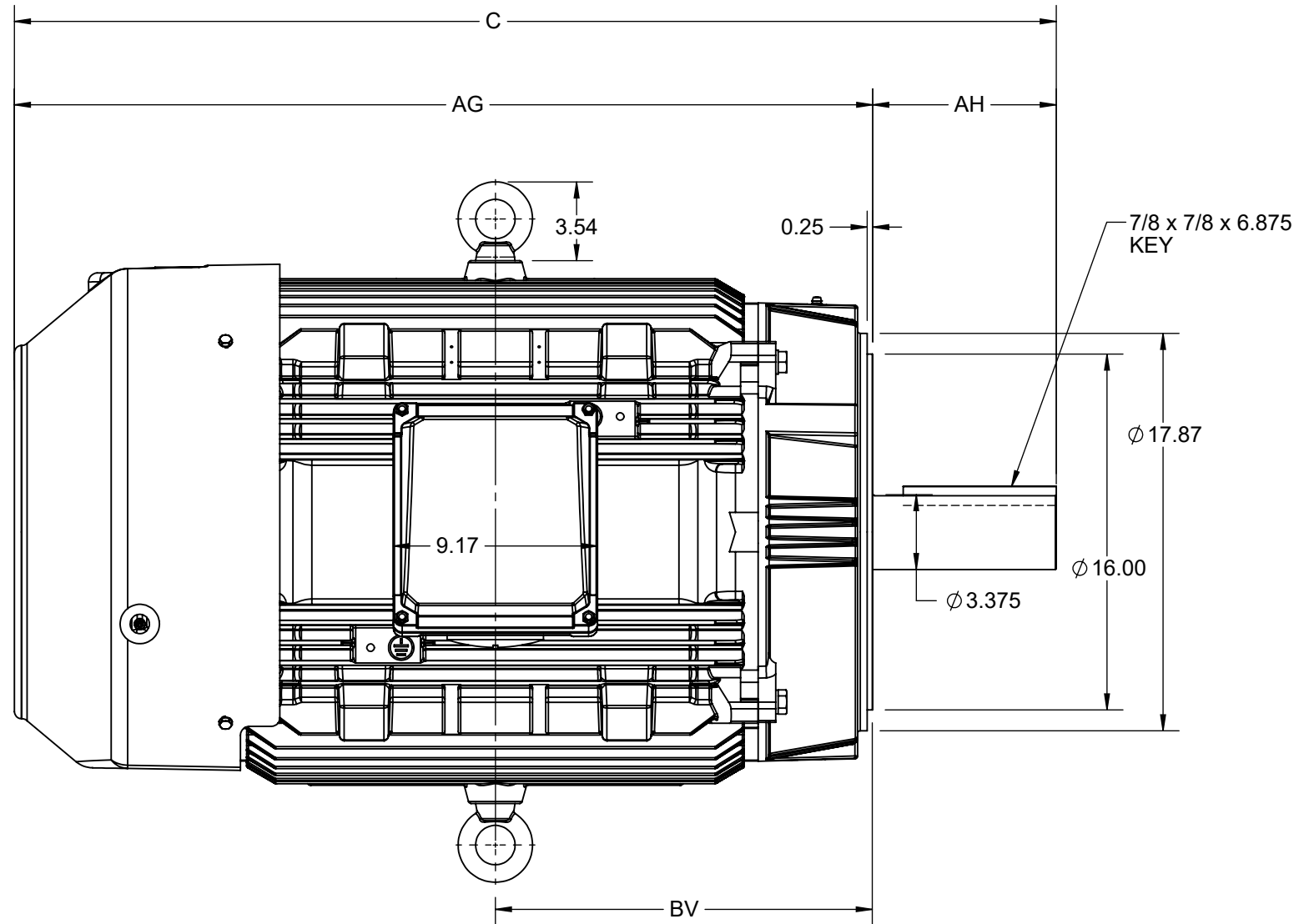
SS621014

Connection Drawing

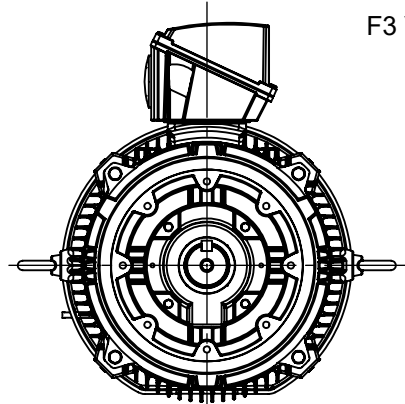
EE7300

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DASH NO.	4			3		FRAME
	C	AG	AH	BV	MOUNTING	
100	44.83	36.58	8.25	15.94	F1 OR F2 OR F3	444TC
200	46.83	38.58		16.94		445TC



F2 VIEW



F3 VIEW

DRAWING REVISION D	REVISION BY JP	REV DATE/© DATE 09-08-2021
ECO CR-0004373	APPROVED BY GNK	DATE 09-08-2021
ECO DESCRIPTION DRAWING UPDATED		
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ARE FOR REFERENCE ONLY

DRAWN BY BISWA	
DATE 09/04/2020	
APPROVED BY SBD	
DATE 09/04/2020	
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE	
444/445TC FR-NEMA-SD & IEEE841-ROUND	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS621014
SHEET 1 OF 1	

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

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**

- L1 _____ WHITE _____
- L2 _____ RED _____
- L3 _____ BLACK _____

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.		
		DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300	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: EE7300
 OUTLINE: SS621014
 WINDING: HA32804009 NONE 5
 SPEED:

CUSTOMER P.O. #:
 REFERENCE MODEL #: 445THFCD9042
 CAT #: W118-P
 CUSTOMER PART #:
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1800	1790	445TCV	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	219	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	96.5	3/4 LD EFF	96.2	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE
F.L. PF	88.5	3/4 LD PF	86.5	1/2 LD PF	80.0	95.8	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
587 LB-FT	1,450	1,256 LB-FT	214%	1,775 LB-FT 302%

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
80 dBA	89 dBA		81.17 LB-FT ²	1300 LB-FT ²	40 SEC.	2	2675 LB.	

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	PREMIUM SEVERE DUTY	NONE	YES	NONE	BLUE - RAL 5003 (EPOXY)

DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6319	BALL 6317	POLYREX EM	T	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
0.012	0.007	0.081	0.185	3.834	0.080	NONE

NOTES	INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE PPR					

PREPARED BY:					
DATE:	11/17/2021				
BRAKE: NONE			NONE		
FT-LB: NA			NONE		
VOLTAGE: NONE			HZ:		
UL: V - LI-ME-INS.CONST UL REC					

FORM: 3531 REV. 4 2/27/06

Data Sheet

Date: 11/17/2021
 Customer: _____
 Attention: _____
 Submitted by: CHANDANA DESU



445THFCD9042

Submittal

Data @ 460 V

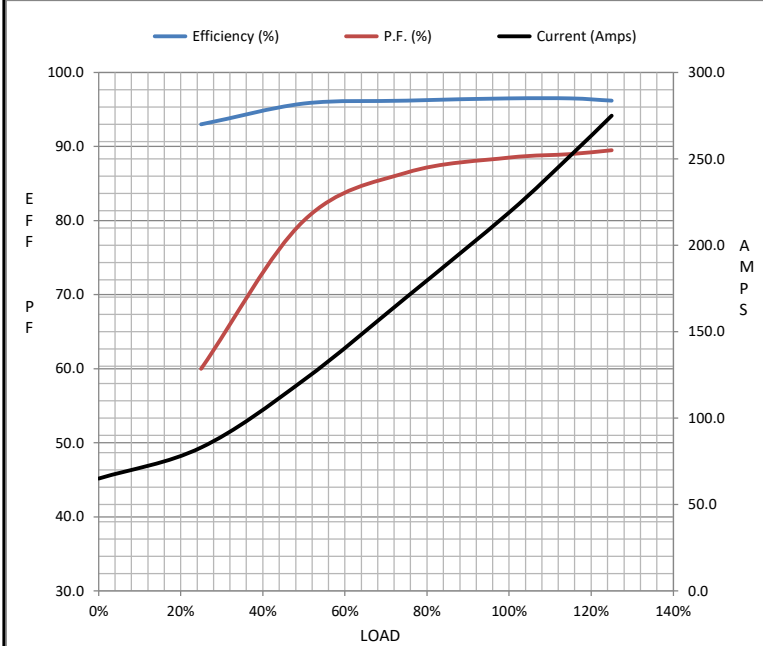
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	65.0	83.0	122	170	219	252	275	1,450
Torque (ft-lb)	0.00	146	293	440	587	676	735	1,256
RPM	1800	1798	1795	1792	1790	1,788	1788	0
Efficiency (%)		93.0	95.8	96.2	96.5	96.5	96.2	
P.F. (%)	4.5	60.0	80.0	86.5	88.5	89.0	89.5	38.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1790	1800
Current (Amps)	1,450	1,160	850	219	65.0
Torque (ft-lb)	1,256	1,050	1,775	587	0.00

Information Block				
HP	200.0			
Sync. RPM	1800			
Frame	445			
Enclosure	TEFC			
Construction	TFC			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	88.0 Lb-F ²			
Ref Wdg	HA32804009 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 2:1/VARIABLE 10:1			
Outline Dwg	SS621014			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0120	0.0070	0.0810	0.1850	3.8340



Speed - Torque Curve

