

PRODUCT INFORMATION PACKET

Model No: 445THFCD9036

Catalog No: W612A

150 HP, Severe Duty Motors, 3 phase, 1800 RPM, 460 V, 445T Frame, TEFC
IEEE 841 Motors



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REGAL

Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	169.0 A	Speed	1790 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	87
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Listed	CSA	Y
CE	Y	IP Code	56
Hazardous Location	DIVISION 2 T2B		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Selective Clockwise
Resistance Main	.0294 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	3.375 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS557668	Connection Drawing	EE7300U

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4

3

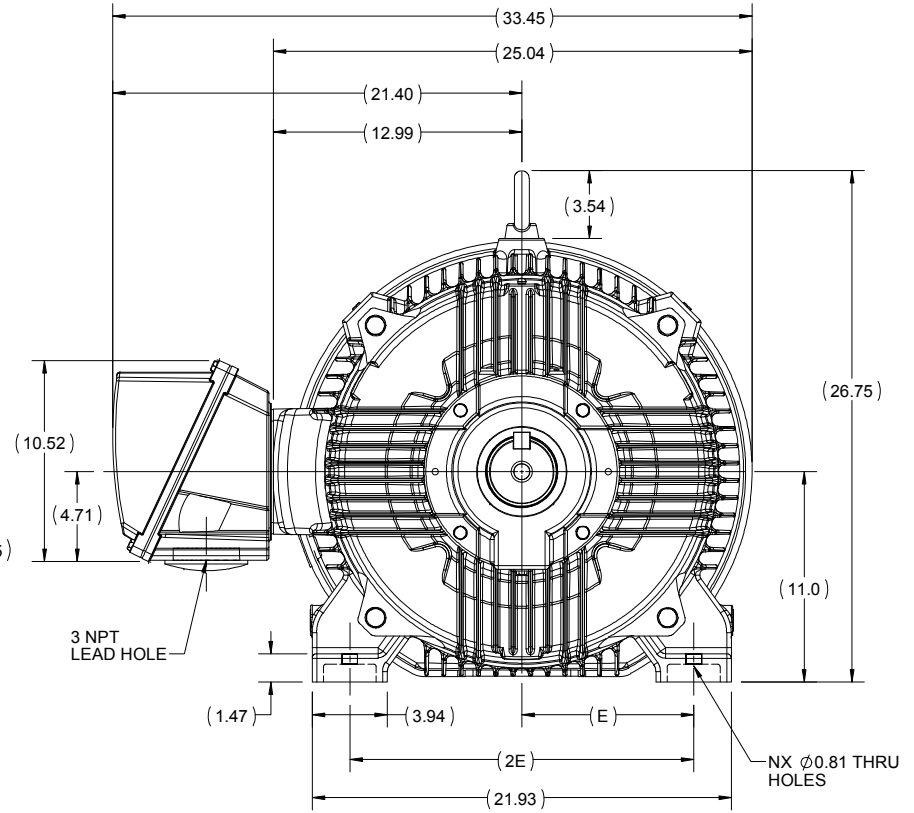
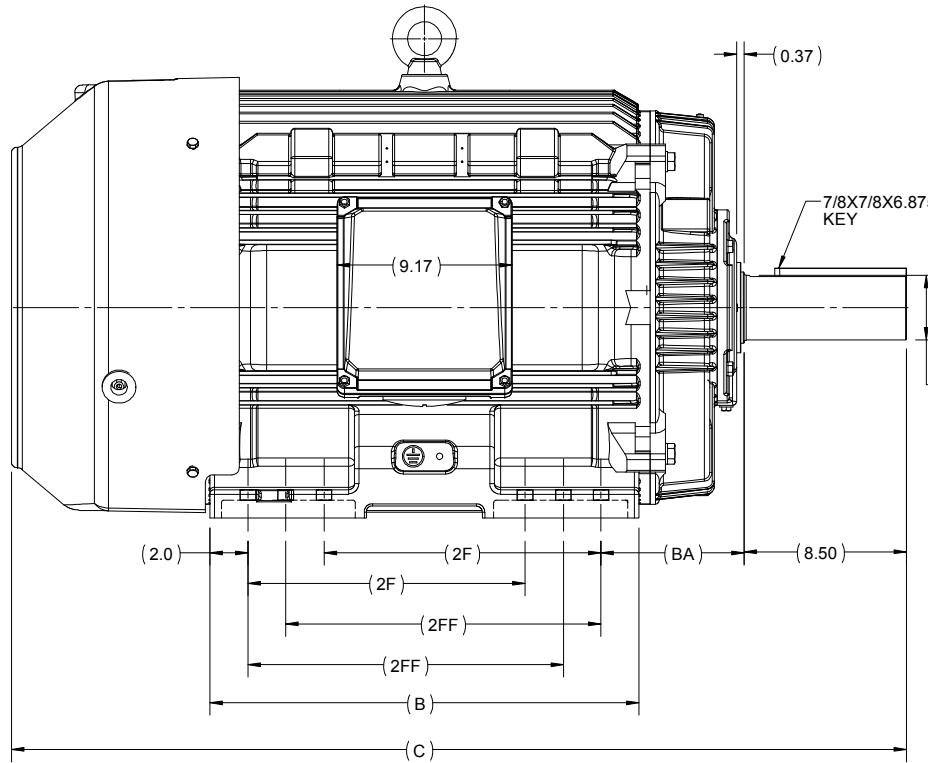
2

1

OUTLINE

B

B



A

A

DRAWING REVISION B	REVISION BY BISWA	DATE 25/01/2018
ECO ECO-0160791	APPROVED BY SBD	DATE 25/01/2018
ECO DESCRIPTION DRAWING UPDATED		
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DRAWN BY BISWA	Regal Beloit America, Inc.		
DATE 24/12/2018			
APPROVED BY SBD	DESCRIPTION OUTLINE 444/445T FR-NEMA-SD & IEEEE841		
DATE 24/12/2018	MATERIAL		
REFERENCE	PROCESS/FINISH		
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS557668	SHEET 1 OF 1

444/445T	22.44	46.83	16.50	14.50	7.50	9.00	18.00	12	F1 OR F2
FRAME	B	C	2FF	2F	BA	E	2E	N	MOUNTING

4

3

2

1

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY DRS	Regal Beloit America, Inc.																					
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>			<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7' 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]		DATE 09-27-1996
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			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS]			REFERENCE	THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300U
 OUTLINE: SS557668-445T
 WINDING: HE32804011 NONE 4

MODEL #: 445THFCD9036
 CAT #: W612A
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
150	112	1800	1790	445T	TEFC	TFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV.(FT)
3	60	460	169	LINE OR INVERTER	CONT	H	1.15	40	3300
F.L. EFF	F.L. PF	3/4 LD EFF	3/4 LD PF	1/2 LD EFF	1/2 LD PF	ELECT. TYPE			
95.8	87.0	95.8	84.5	95.4	77.0	SQ CAGE INV RATED			
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)					
440 LB-FT	1.085	926 LB-FT	210%	1,232 LB-FT	280%	55			
SOUND PRESSURE @	SOUND	ROTOR WK'	MAX. LOAD WK'	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR		
75 dBA	84 dBA	80.0 LB-FT ²	1000 LB-FT ²	25 SEC.	2	1957	LB.		
*** SUPPLEMENTAL INFORMATION ***									
DE BRACKET TYPE	ODE BRACKET TYPE	WOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT	
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)	
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE	ODE								
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON	
6319	6317								
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)				
0.018	0.009	0.112	0.231	4.914	0.080				
* Inverter equals NONE, contact factory for further information									
* N O T E S *						INVERTER TORQUE: VARIABLE 10:1			
						INV. HP SPEED RANGE: NONE			
						ENCODER: NONE			
						NONE NONE PPR			
PREPARED BY: ANUSHA M DATE: 3/10/2020					BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:				
FORM: 3531 REV_4 2/27/06 ** Subject to change without notice.									

