

PRODUCT INFORMATION PACKET

Model No: 445TSTFCD6506

Catalog No: E496A

Severe Duty Motors, TEFC, 200 HP, 3 Ph, 60 Hz, 575 V, 3580 RPM, 445TS Frame

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Nameplate Specifications

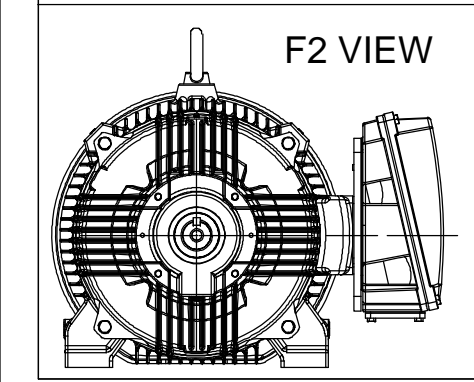
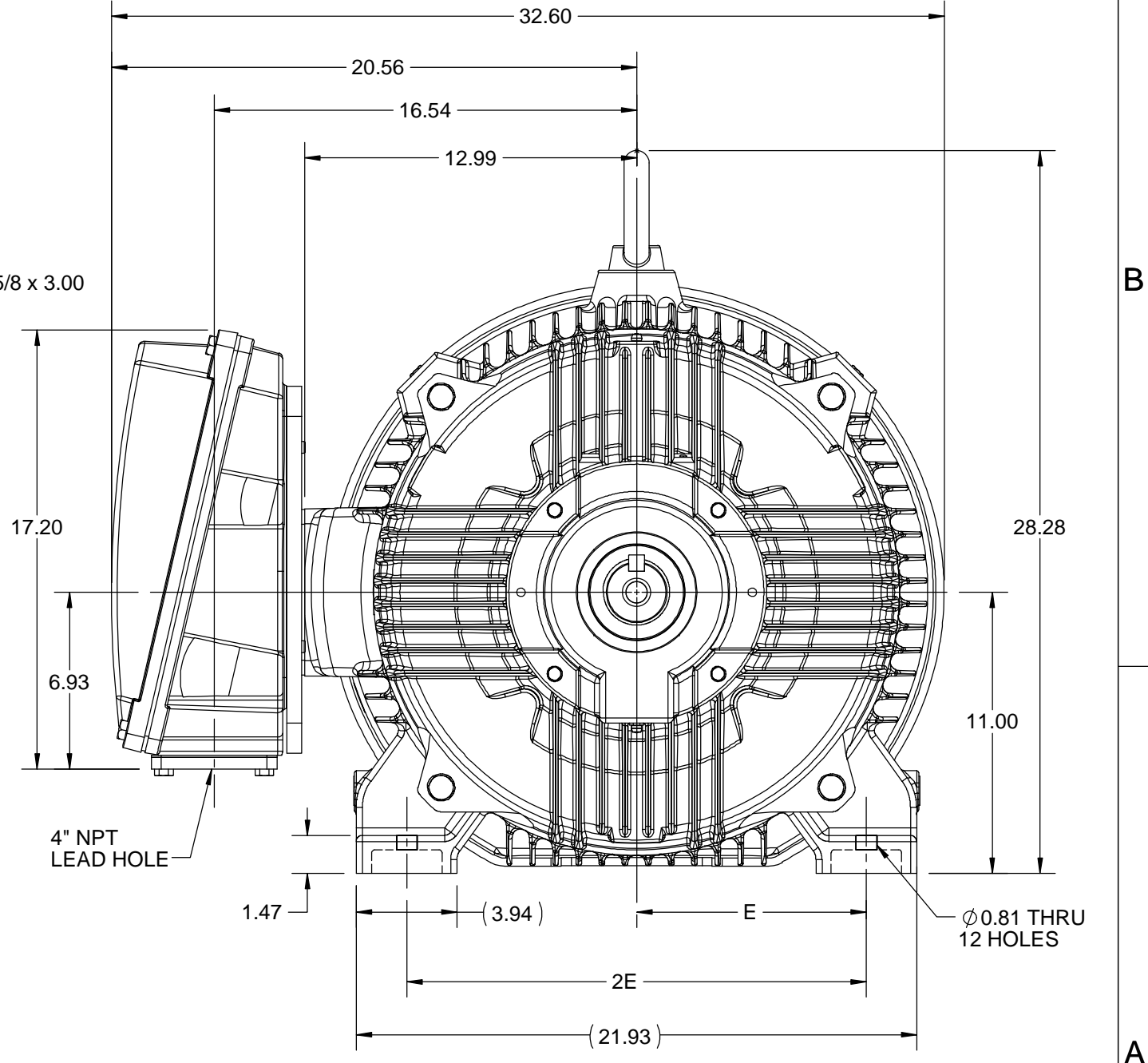
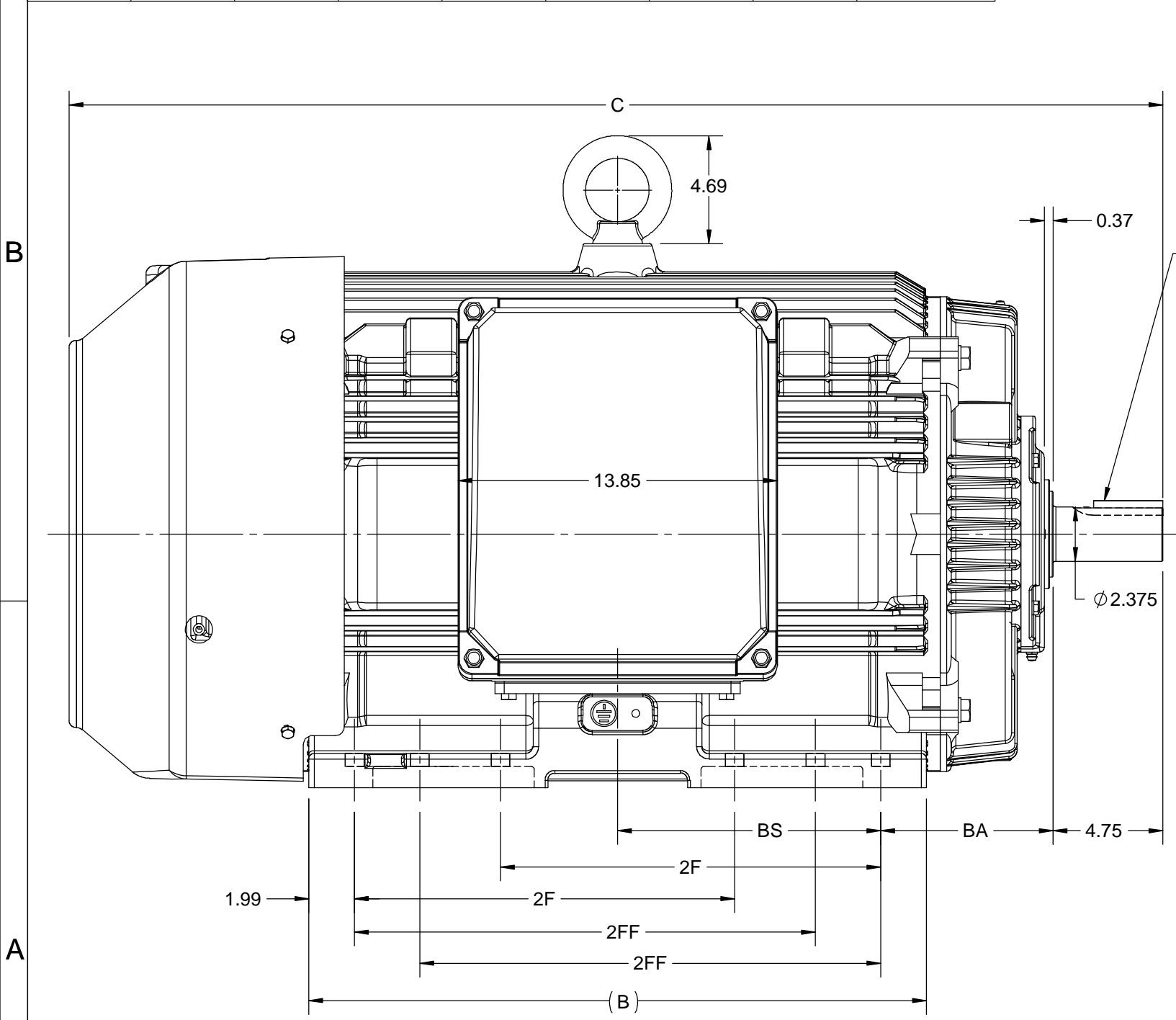
Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	575 V
Current	174.0 A	Speed	3580 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	90.5
Duty	Continuous	Insulation Class	H
Design Code	A	KVA Code	H
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.16 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Shaft Diameter	2.375 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Connection Drawing	EE7300U	Outline Drawing	SS557889

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4			3					2	1
B	C	E	2E	2F	2FF	BA	BS	MOUNTING	
26.81	47.45	9.00	18.00	16.50	20.00	7.50	11.42	F1 OR F2	



DRAWING REVISION C	REVISION BY BISWA	REV DATE/© DATE 30/11/2020
ECO ECO-0195277	APPROVED BY GNK	DATE 30/11/2020
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DRAWN BY BISWA	Regal Beloit America, Inc.	
DATE 23/05/2019		
APPROVED BY SBD		
DATE 23/05/2019		
REFERENCE	DESCRIPTION 445/447TS FR NEMA-SD & IEEE841	
THIRD ANGLE PROJECTION	MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS557889	SHEET 1 OF 1

DESCRIPTION	OUTLINE
445/447TS FR NEMA-SD & IEEE841	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS557889
	SHEET 1 OF 1

IF MOTOR HAS 9 LEADS

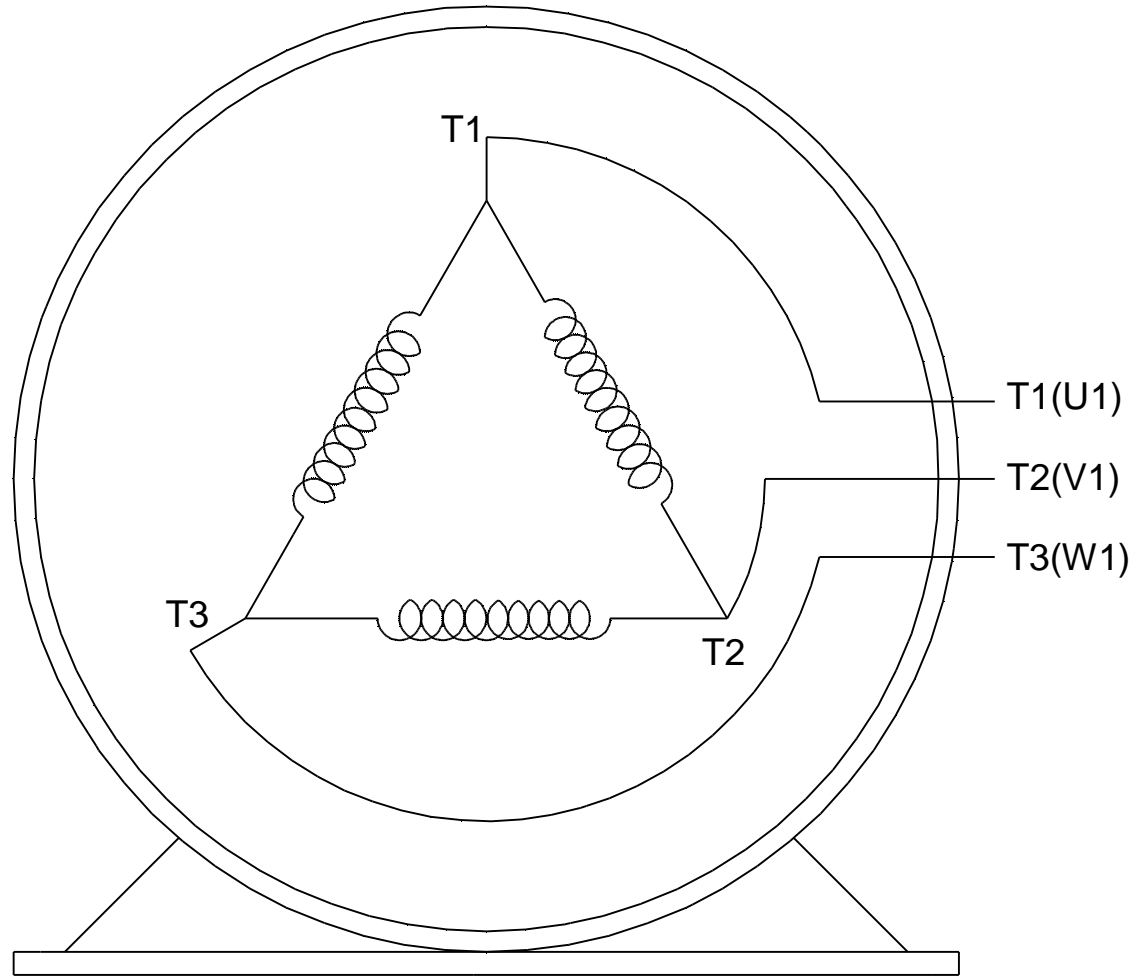
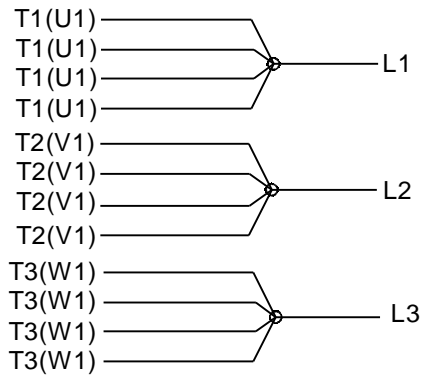


IF MOTOR HAS 6 LEADS



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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			DATE 09-30-1996			REFERENCE	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																	
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH $\sqrt{\quad}$ 5.1 mm $\sqrt{\quad}$ mm SHOWN IN [BRACKETS]	THIRD ANGLE PROJECTION																						



DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300U
 OUTLINE: SS557889
 WINDING: HA32802008 NONE 5

REFERENCE MODEL #: 445TSTFCD6506
 CAT #: E496A
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	3600	3580	445TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	174	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF	ELECT. TYPE
F.L. PF	90.5	3/4 LD PF	89.0	1/2 LD PF	84.2	95.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
294 LB-FT	1,160	512 LB-FT 174%	821 LB-FT 279%	70

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
85 dBA	94 dBA	51.0 LB-FT²	130 LB-FT²	15 SEC.	2	2303 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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6314	6314						

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
0.025	0.0171875	0.2046875	0.3265625	12.0984375	0.080	ODE

* N O T E S *	If Inverter equals NONE, contact factory for further information					
	INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
NONE						
NONE PPR						

PREPARED BY: _____ DATE: 5/13/2020	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE	NONE NONE HZ:
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FORM: 3531 REV_4 2/27/06
 ** Subject to change without notice.

Data Sheet

Date: 5/6/2020
 Customer: _____
 Attention: _____
 Submitted by: _____



445TSTFCD6506

Submittal

Data @ 575 V

Motor Load Data

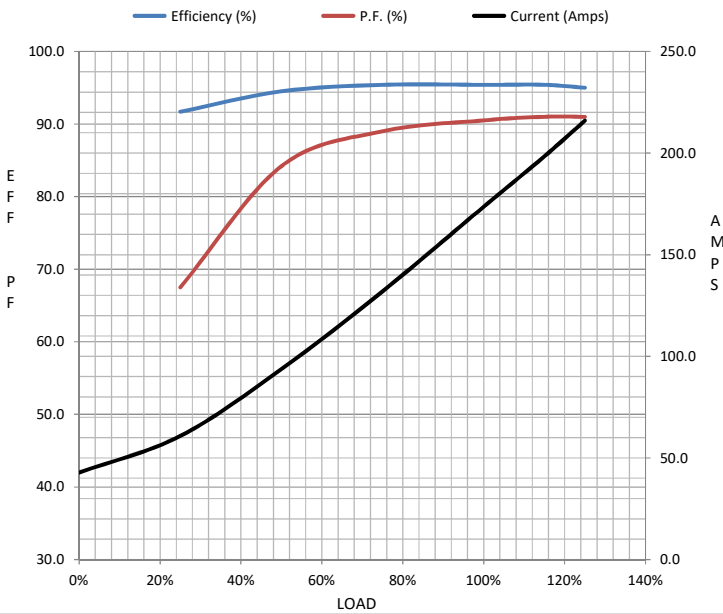
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	42.8	60.8	93.8	132	174	198	216	1,160
Torque (ft-lb)	0.00	73.0	146	220	294	338	368	512
RPM	3600	3595	3590	3585	3580	3,578	3575	0
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0	
P.F. (%)	8.0	67.5	84.2	89.0	90.5	91.0	91.0	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1200	3478	3580	3600
Current (Amps)	1,160	1,010	686	174	42.8
Torque (ft-lb)	512	420	821	294	0.00

Information Block

HP	200.0			
Sync. RPM	3600			
Frame	445			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	51.0 Lb-Ft ²			
Ref Wdg	HA32802008 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 2:1/VARIABLE 10:1			
Outline Dwg	SS557889			
Conn. Diag	EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0110	0.1310	0.2090	7.7430



Speed -Torque Curve

