

PRODUCT INFORMATION PACKET

Model No: 449THFCD9026
Catalog No: W660
400,1800,TEFC,449T,3/60/460

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Nameplate Specifications

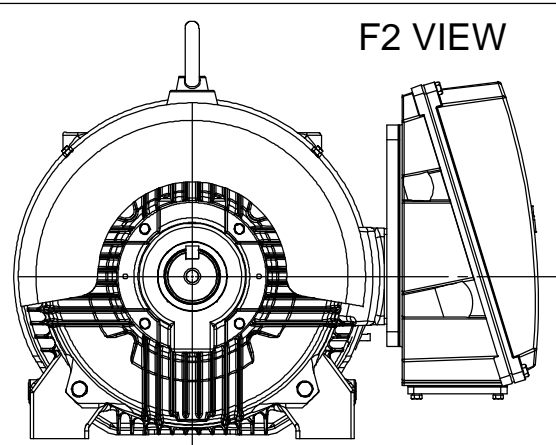
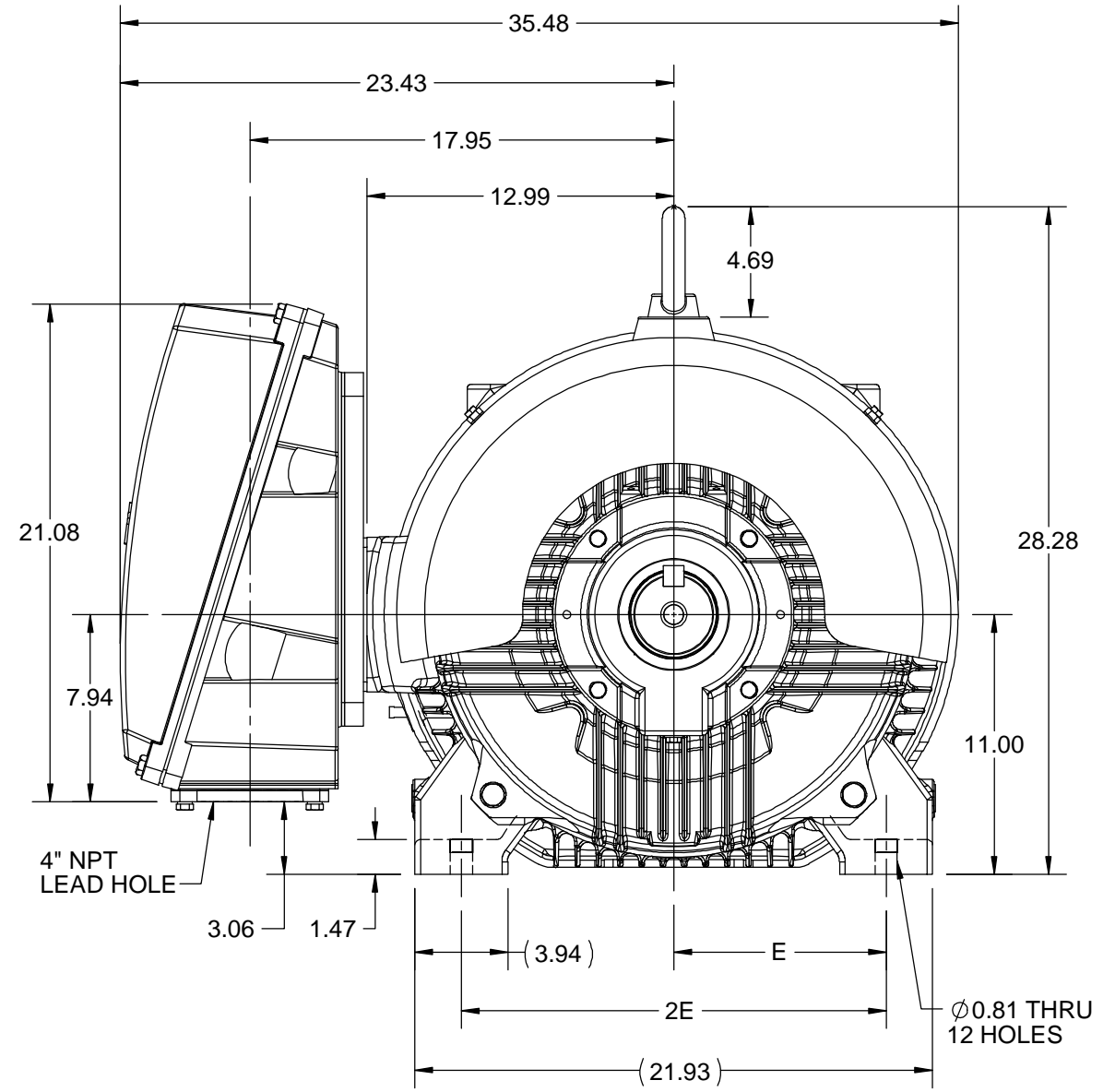
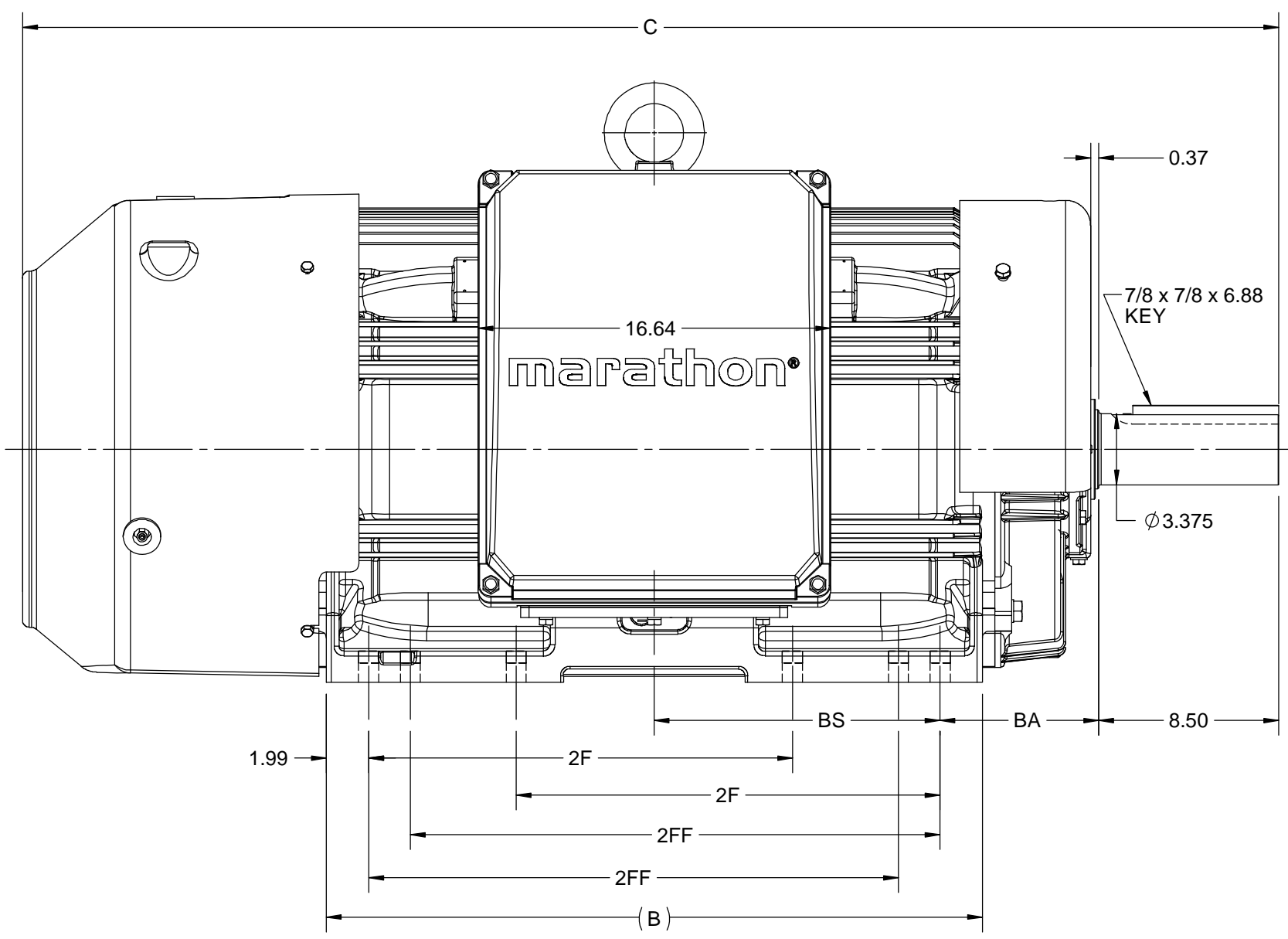
Output HP	400 Hp	Output KW	300.0 kW
Frequency	60 Hz	Voltage	460 V
Current	442.0 A	Speed	1788 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	88
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	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	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Selective Clockwise
Resistance Main	.0095 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		
Connection Drawing	EE7300U	Outline Drawing	SS620973

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4				3				
B	C	E	2E	2F	2FF	BA	BS	MOUNTING
30.94	59.27	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2

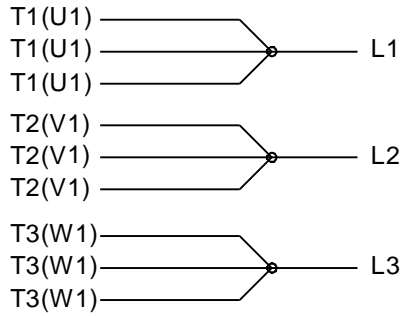


DRAWING REVISION B	REVISION BY BISWA	REV DATE/© DATE 09/10/2020
ECO ECO-0195135	APPROVED BY SBD	DATE 09/10/2020
ECO DESCRIPTION		
DRAWING UPDATED		
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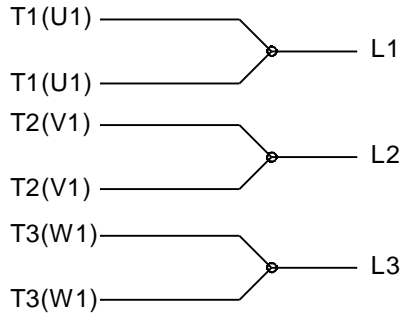
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY BISWA	Regal Beloit America, Inc.
DATE 03/05/2020	
APPROVED BY SBD	DESCRIPTION OUTLINE 447/449T FR H/O-SD & IEEE 841
DATE 03/05/2020	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER SS620973
	SHEET 1 OF 1

IF MOTOR HAS 9 LEADS

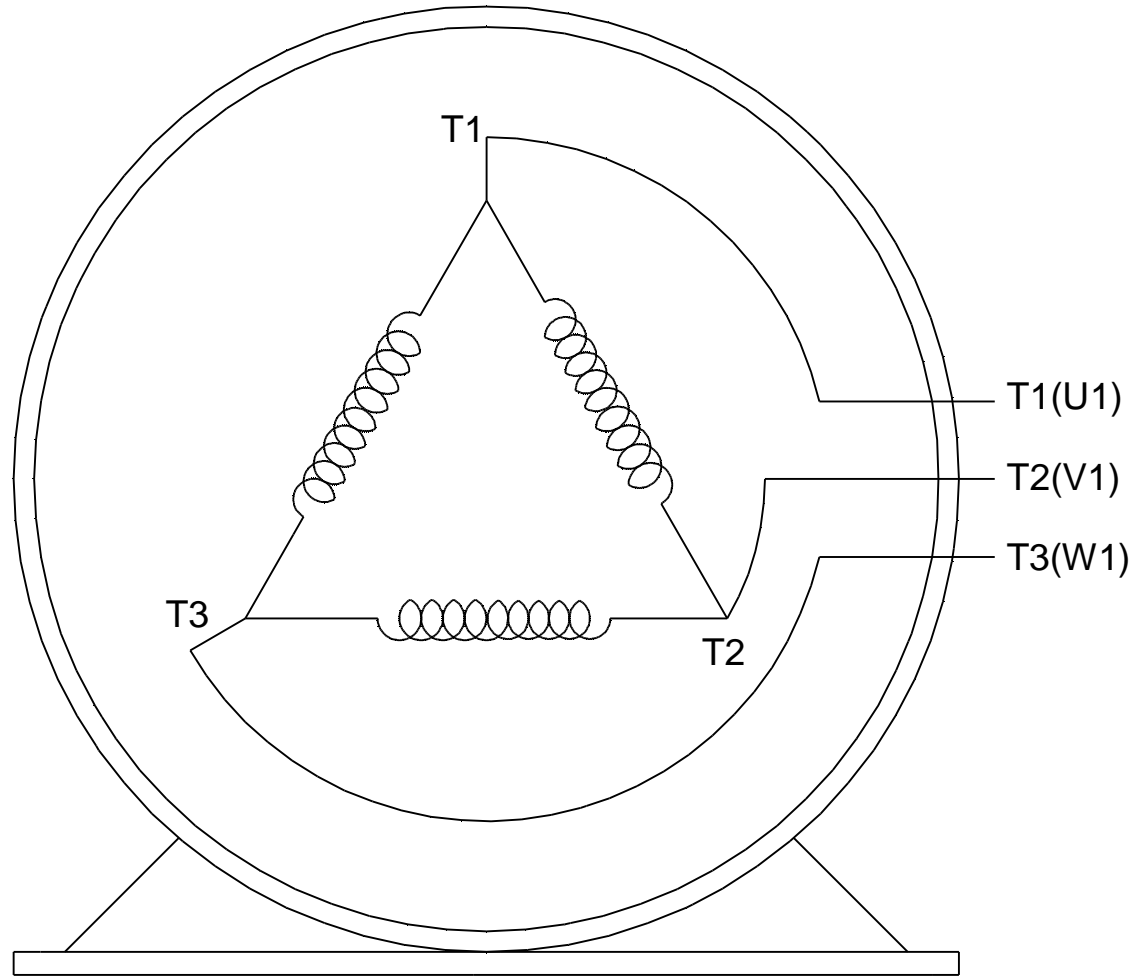
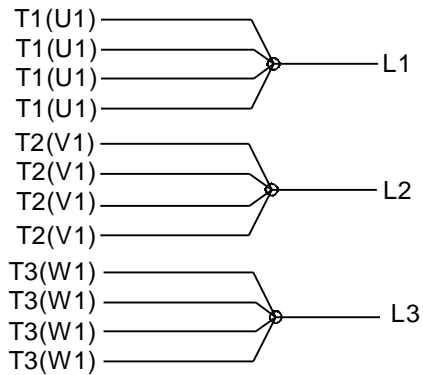


IF MOTOR HAS 6 LEADS



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="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>DEC.</u></td> <td style="text-align: center;"><u>INCH</u></td> <td style="text-align: center;"><u>mm</u></td> <td style="text-align: center;"><u>ANGLE</u></td> </tr> <tr> <td style="text-align: center;">.X</td> <td style="text-align: center;">±0.1</td> <td style="text-align: center;">[±2.5]</td> <td style="text-align: center;">±7° 30"</td> </tr> <tr> <td style="text-align: center;">.XX</td> <td style="text-align: center;">±0.02</td> <td style="text-align: center;">[±0.51]</td> <td></td> </tr> <tr> <td style="text-align: center;">.XXX</td> <td style="text-align: center;">±0.005</td> <td style="text-align: center;">[±0.127]</td> <td></td> </tr> <tr> <td style="text-align: center;">.XXXX</td> <td style="text-align: center;">±0.0005</td> <td style="text-align: center;">[±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]	
<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>																					
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.XXXX	±0.0005	[±0.0127]																						
ECO DESCRIPTION UPDATED TO SOLIDWORKS			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 $\sqrt{\quad}$	APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE																			
				DATE 09-30-1996		MATERIAL	PROCESS/FINISH																	
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				THIRD ANGLE PROJECTION	A	EE7300U	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: EE7300U
OUTLINE: SS620973
WINDING: HA32804032 NONE 1
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 449THFCD9026
CAT #: W660
CUSTOMER PART #: _____
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
400	298	1800	1788	447/449T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	442	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	96.5	1/2 LD EFF	96.4	GTD EFF	ELECT. TYPE
F.L. PF	88.0	3/4 LD PF	86.9	1/2 LD PF	81.9	95.8	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
1,175 LB-FT	2,960	3,000 LB-FT	255%	2,500 LB-FT 213%

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
85 dBA	94 dBA		132 LB-FT ²	3000 LB-FT ²	20 SEC.	2	3275 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	YES	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)	FLOAT
0.006	0.004	0.042	0.113	2.375	0.080	NONE

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

PREPARED BY: GOWTHAM BANDELA	BRAKE: NONE
DATE: 6/4/2021	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE
FORM: 3531 REV. 4 2/27/06	HZ: UL: NO LETTER - ME, WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED

Data Sheet

Date: 5/27/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



449THFCD9026

Submittal

Data @ 460 V

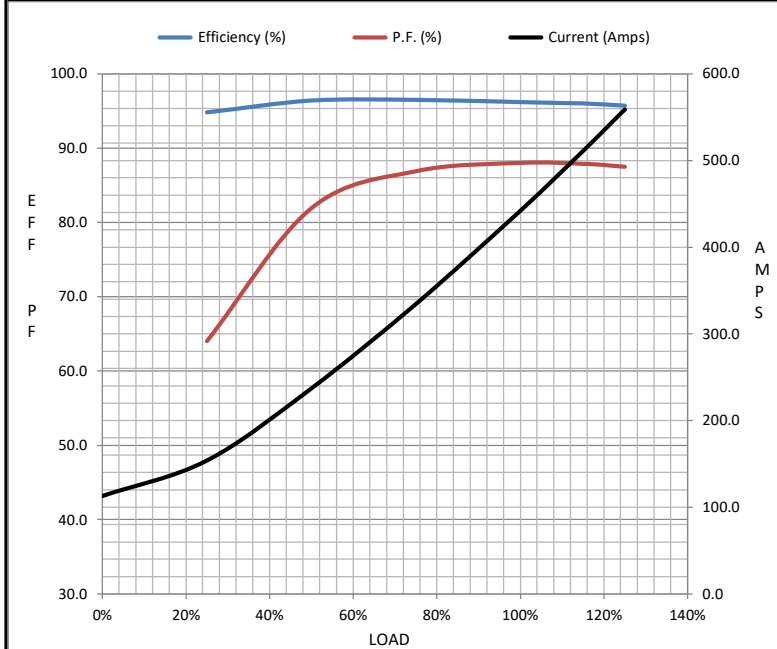
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	113	154	237	335	442	511	559	2,960
Torque (ft-lb)	0.00	292	585	880	1,175	1,353	1,472	3,000
RPM	1800	1797	1794	1791	1788	1,786	1784	0
Efficiency (%)		94.8	96.4	96.5	96.2	96.0	95.7	
P.F. (%)	4.0	64.0	81.9	86.9	88.0	87.9	87.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1746	1788	1800
Current (Amps)	2,960	2,370	1,390	442	113
Torque (ft-lb)	3,000	2,500	2,500	1,175	0.00

Information Block				
HP	400.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFC			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	85 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	132 Lb-Ft ²			
Ref Wdg	HA32804032 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 2:1/VARIABLE 10:1			
Outline Dwg				
Conn. Diag	EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0060	0.0040	0.0420	0.1130	2.3750



Speed - Torque Curve

