

PRODUCT INFORMATION PACKET

Model No: 445TTFN6591

Catalog No: E407

Severe Duty Motors, TEFC, 150 HP, 3 Ph, 60 Hz, 575 V, 1190 RPM, 445T Frame



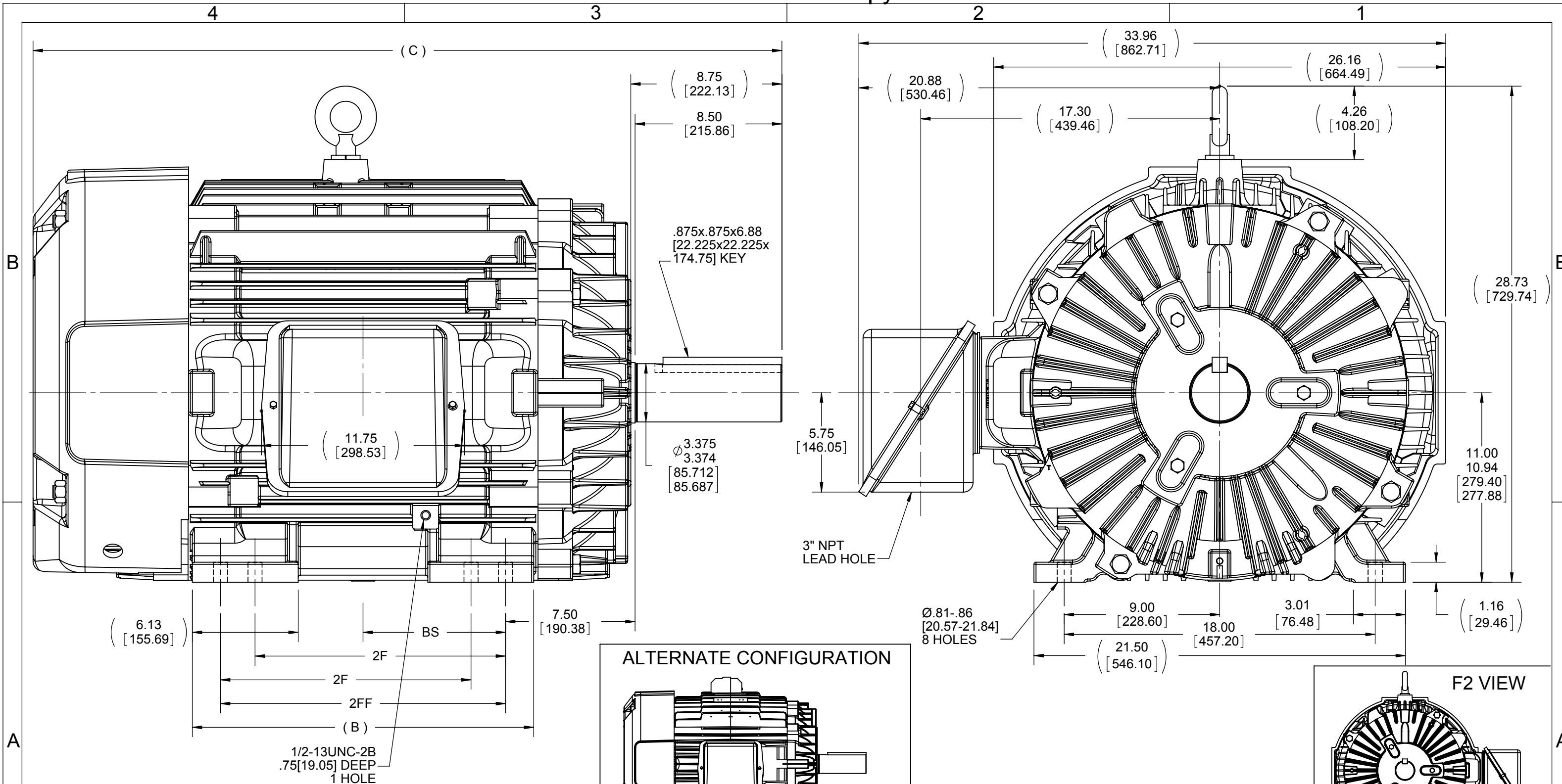
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Nameplate Specifications

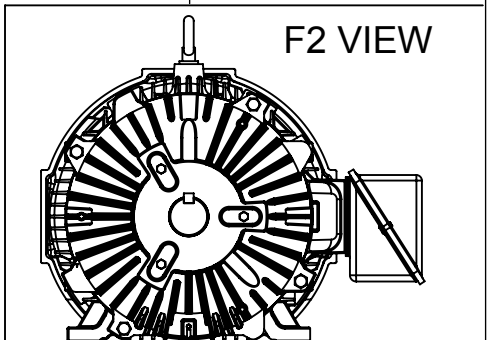
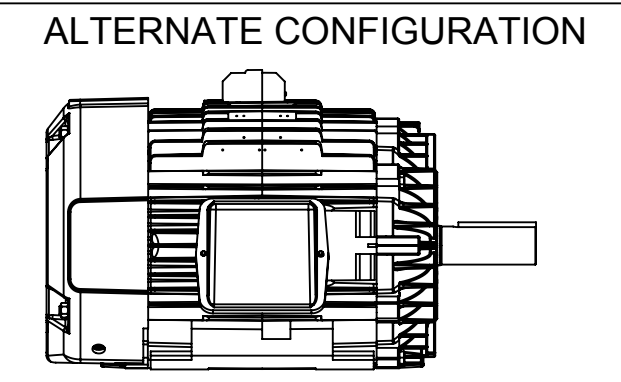
Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	575 V
Current	145.0 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	81
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	NU318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.022 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.34 in
Frame Length	20.50 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	CONSTANT 2:1		
Connection Drawing	A-EE7300U	Outline Drawing	SS513797-2025



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.



DASH	FRAME	B	C	2F	2FF	BS
1825	444T	17.75 [450.85]	41.34 [1050.04]	14.50 [368.30]	---	7.25 [184.15]
2025	444/445T	19.75 [501.65]	43.34 [1100.84]	14.50 [368.30]	16.50 [419.10]	8.25 [209.55]

DRAWING REVISION C	REVISION BY AJW	DATE 11-13-2014
ECO ECO-0065299	APPROVED BY TDB	DATE 11-13-2014
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:
 DEC. .X ±0.1 [±2.5]
 .XX ±0.03 [±0.76]
 .XXX ±0.005 [±0.127]
 .XXXX ±0.0005 [±0.0127]
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]
 CORNER FILLETS: .02 [0.51]
 MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]

DRAWN BY
JL
 DATE
06-28-1991
 APPROVED BY
AAL
 DATE
12-02-1991
 REFERENCE
 THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
444/445T FR.-STD.

MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS513797** SHEET 1 OF 1

IF MOTOR HAS 9 LEADS

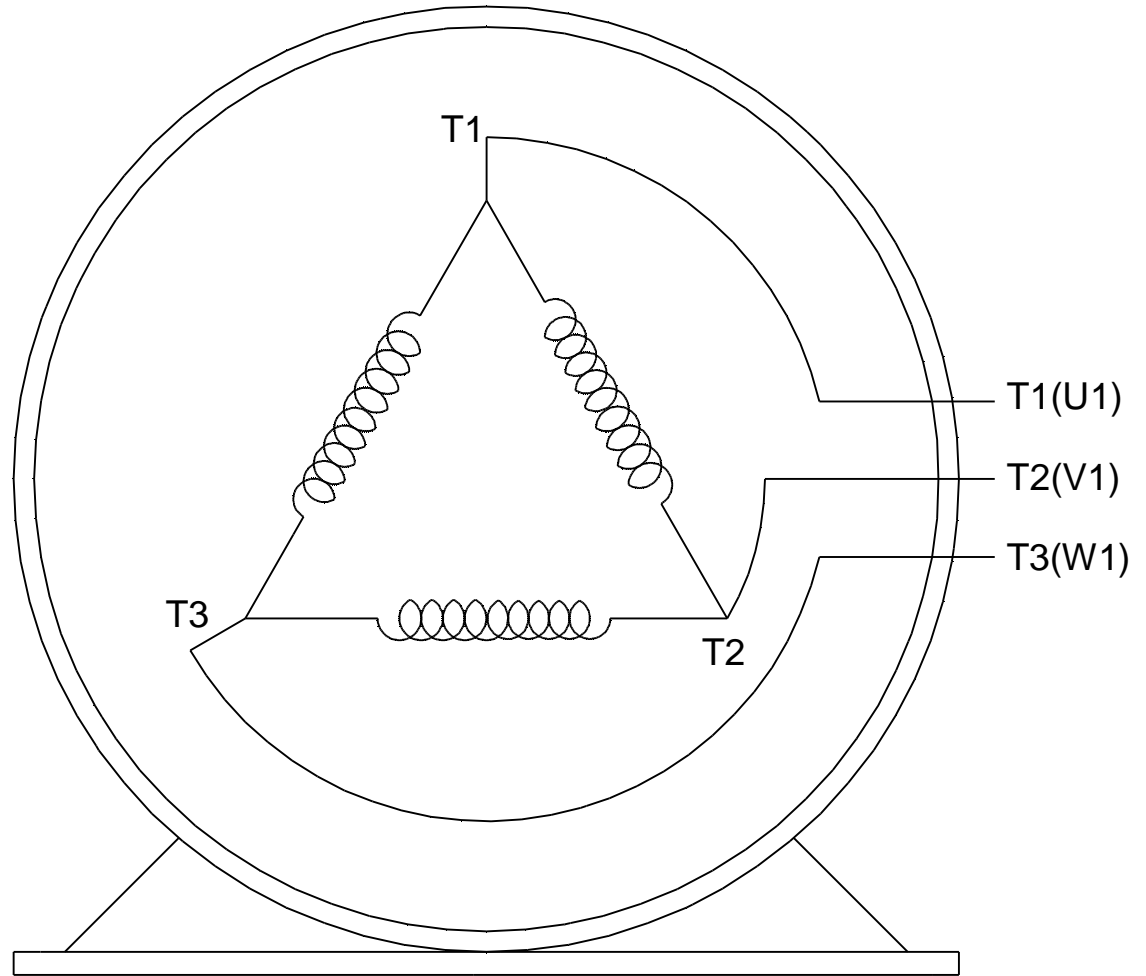


IF MOTOR HAS 6 LEADS



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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			MATERIAL			PROCESS/FINISH																				
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$			DATE 09-30-1996	<table style="font-size: small; border-collapse: collapse;"> <tr> <td>SIZE</td> <td>DRAWING NUMBER</td> <td>SHEET</td> </tr> <tr> <td>A</td> <td>EE7300U</td> <td>1 OF 1</td> </tr> </table>		SIZE	DRAWING NUMBER	SHEET	A	EE7300U	1 OF 1															
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mm SHOWN IN [BRACKETS]			REFERENCE	THIRD ANGLE PROJECTION																						

CERTIFICATION DATA SHEET

Model#: 445TTFN6591 DD **WINDING#:** T445692 NONE 5
CONN. DIAGRAM: A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS513797-2050

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN				
150	112	1200	1190	445T	TEFC	G	B				
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION		
3	60	575	145	LINE OR INVERTER	CONTINUOUS	H1	1.15	40	3300		
FULL LOAD EFF: 95.8		3/4 LOAD EFF: 95.8		1/2 LOAD EFF: 95.4		GTD. EFF		ELEC. TYPE		NO LOAD AMPS	
FULL LOAD PF: 81		3/4 LOAD PF: 77		1/2 LOAD PF: 67.5		95.4		SQ CAGE INV RATED		57.6	
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C			
662 LB-FT		868		1075 LB-FT 162		1700 LB-FT 257		65			
SOUND PRESSURE @ 3 FT.		SOUND POWER		ROTOR WK^2		MAX. WK^2		SAFE STALL TIME		STARTS / HOUR	APPROX. MOTOR WGT
72 dBA		82 dBA		91 LB-FT^2		2350 LB-FT^2		25 SEC.		2	2550 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT	
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	BLUE (EPOXY)	

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER	BALL	SHC-100/POLYREX	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
NU318	6316						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

*
N
O
T
E
S
*

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 06:06:15 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



445TTFN6591

Submittal

Data @ 575 V

Motor Load Data

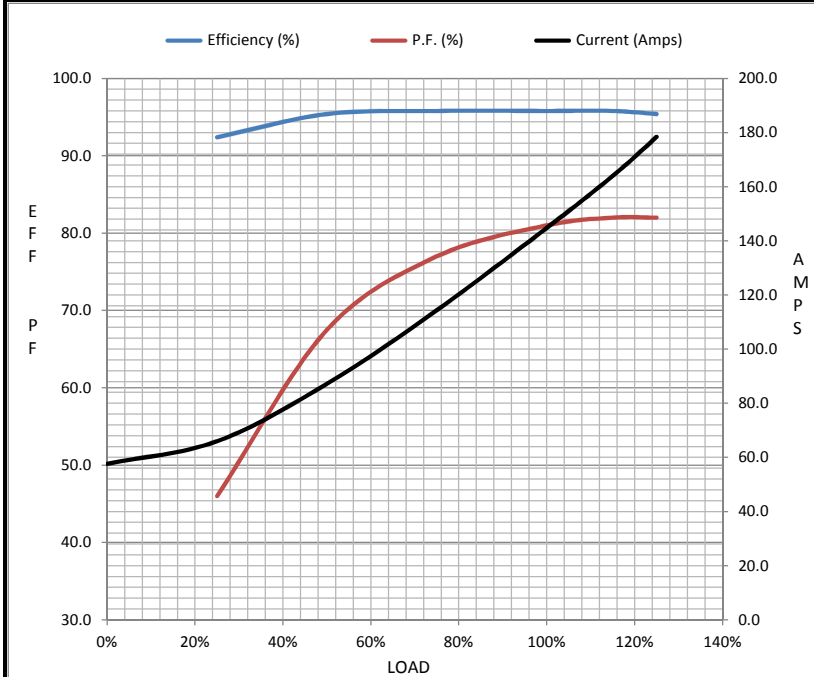
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	57.6	66.0	87.2	114	145	164	178	868
Torque (ft-lb)	0.00	165	330	495	662	760	825	1,075
RPM	1200	1198	1196	1194	1190	1,188	1186	0
Efficiency (%)		92.4	95.4	95.8	95.8	95.8	95.4	
P.F. (%)	3.5	46.0	67.5	77.0	81.0	82.0	82.0	28.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	868	780	520	145	57.6
Torque (ft-lb)	1,075	1,025	1,700	662	0.00

Information Block

HP	150.0			
Sync. RPM	1200			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	91.0 Lb-Ft ²			
Ref Wdg	T445692 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS513797-2050			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0200	0.0180	0.2520	0.3070	5.4040



Speed - Torque Curve

