

# PRODUCT INFORMATION PACKET



Model No: 145TTGR16039

Catalog No: I515

Explosion Proof Motor, 2 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 145T Frame, EPFC



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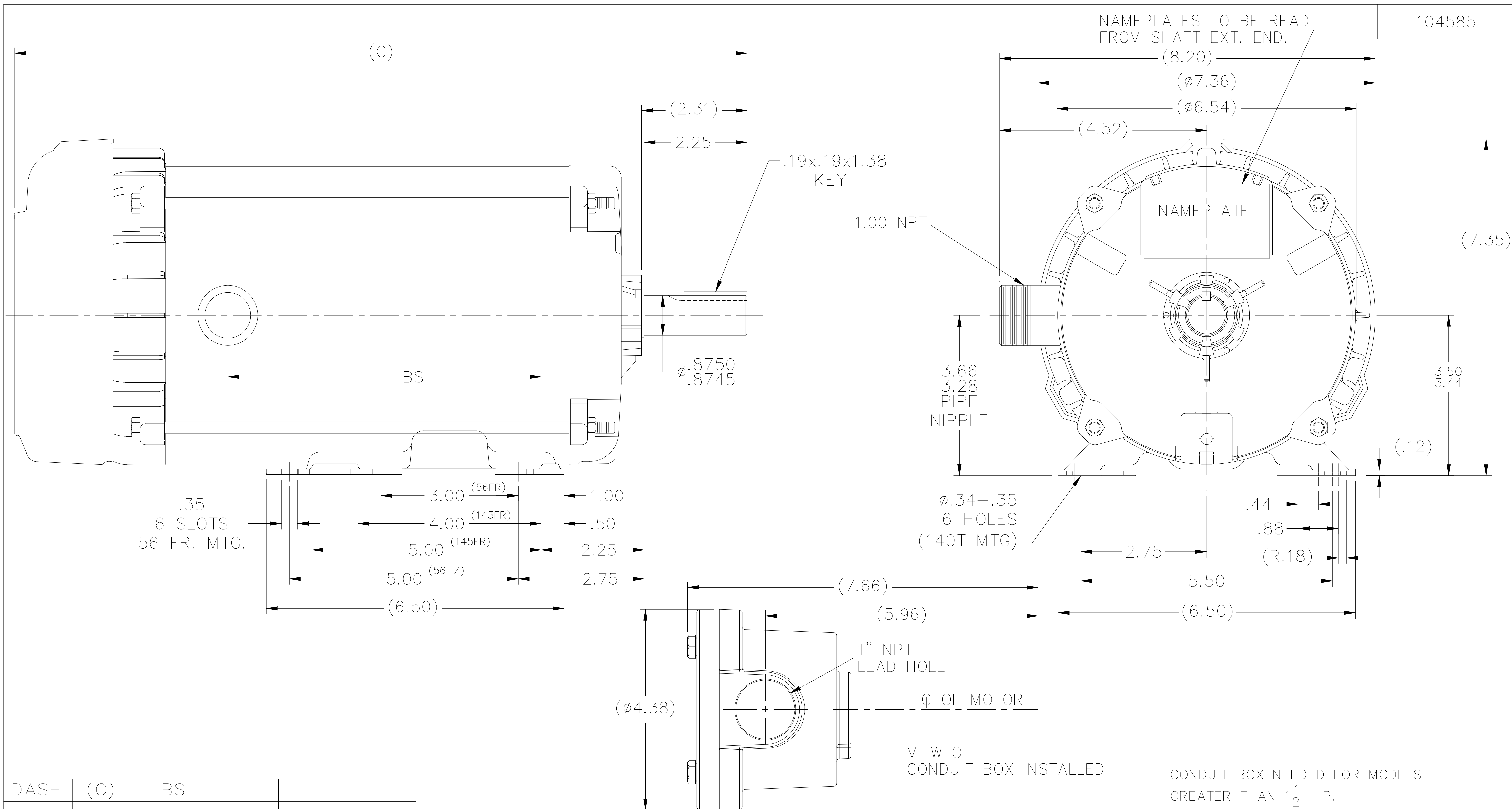
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>2 Hp</b>
Output KW	<b>1.5 kW</b>	Voltage	<b>575 V</b>
Speed	<b>1760 rpm</b>	Service Factor	<b>1.0</b>
Frame	<b>145T</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>86.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>2.4 A</b>	Power Factor	<b>71</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>A</b>	KVA Code	<b>N</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>UL Listed And CSA Certified</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>	Hazardous Location	<b>DIV 1 EXP PROOF CL I GR CD CL II GR EFG T3B</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>6.58 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>16.50 in</b>
Frame Length	<b>9.31 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>2.31 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>A-EE7300T</b>	Outline Drawing	<b>B-104585-931</b>

104585



DASH	(C)	BS			
681	14.00	4.84			
731	14.50	5.34			
781	15.00	5.84			
831	15.50	6.34			
881	16.00	6.84	SHOWN		
931	16.50	7.34			
981	17.00	7.84			

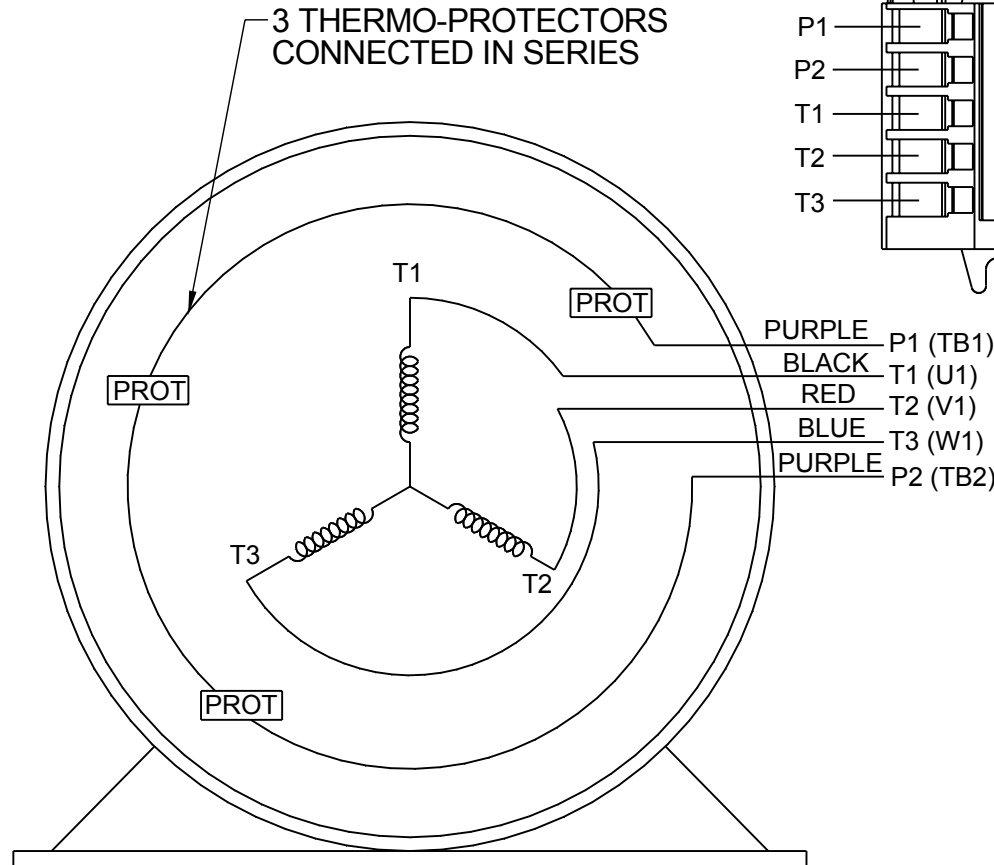
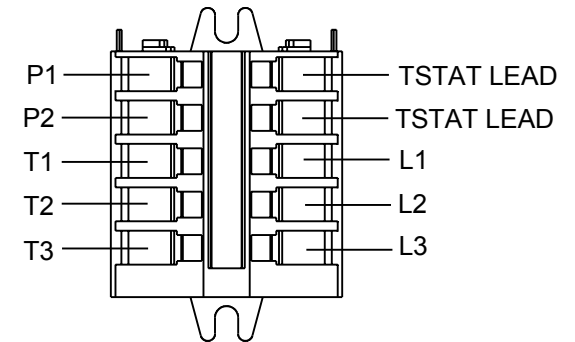
				TOLERANCES UNLESS SPECIFIED		REGAL™ Regal Beloit America, Inc.	DRAWN BLR 05-10-1999					
				DEC.	INCHES		CHK	ML	05-11-1999			
4	UPDATED LOGO	SG	08/07/2020	PVR	.X	±.1						
3	REVISED C'BOX PER CN40784A	JJB	02/23/2007	ML	.XX	±.03	TITLE	OUTLINE				
2	REDRAWN IN AUTOCAD, REMOVED -631 CN 46098	MJK	06/17/2005		.XXX	±.005	140 FR. - EXP. PR. - TEFC - 1 $\phi$ & 3 $\phi$			SCALE 1=2		
1	NEW DRAWING MU 24921	BLR	05-12-1999		.XXXX	±.0005	MAT'L.			REF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"		FINISH			PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE 104585			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WP	B			104585	4		

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

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

**NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST:  
FOR 3 LEAD COMMON CONNECT:  
CONNECT P1 TO T1 THEN P2 TO L1  
FOR 6 LEAD COMMON CONNECT:  
CONNECT P1 TO BOTH T1  
THEN P2 TO L1**

TERMINAL BLOCK WHEN SPECIFIED

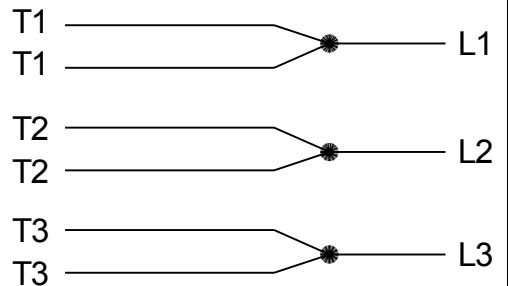


- PURPLE P1 (TB1)
- BLACK T1 (U1)
- RED T2 (V1)
- BLUE T3 (W1)
- PURPLE P2 (TB2)

- T2BM
- T6AW
- T6AL
- T6Z
- T4EG
- T4BF
- T8A
- T6H
- T6A
- T4AX
- T4A
- T2A
- T2F

**VIEW OF TERMINAL END**

**IF MOTOR HAS MULTIPLE  
T'S PER LEAD CONNECT  
TOGETHER LIKE T'S**



**A-9806 DECAL**

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015		DRAWN BY LZ	Regal Beloit America, Inc.
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015		DATE 01-04-1994	
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8				APPROVED BY GK	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b> 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>				DATE 01-20-1994	MATERIAL
			THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>EE7300T</b>



Data Sheet

Date: 16-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



145TTGR16039

Submittal

Data @ 575 V

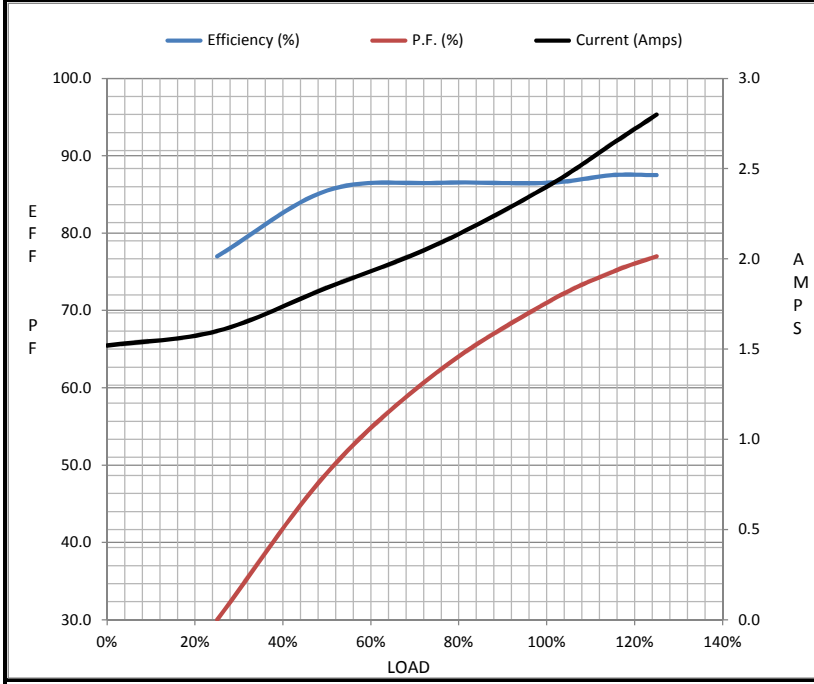
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.52	1.60	1.84	2.08	2.40	2.64	2.80	24.4
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.9	7.5	24.5
RPM	1800	1790	1780	1770	1760	1,755	1750	0
Efficiency (%)		77.0	85.5	86.5	86.5	87.5	87.5	
P.F. (%)	7.0	30.0	49.0	62.0	71.0	75.0	77.0	71.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1200	1760	1800
Current (Amps)	24.4	23.6	15.6	2.40	1.52
Torque (ft-lb)	24.5	23.7	33.2	6.0	0.00

Information Block				
HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.14 Lb-Ft <sup>2</sup>			
Ref Wdg	ZT4255 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-104585-931			
Conn. Diag	A-EE7300T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
6.1900	4.7040	8.9860	9.2740	250.5410



Speed - Torque Curve

