

PRODUCT INFORMATION PACKET

Model No: 505USTDS17006
Catalog No: 505USTDS17006
400,3600,DP,505US,3/60/460

Regal and are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



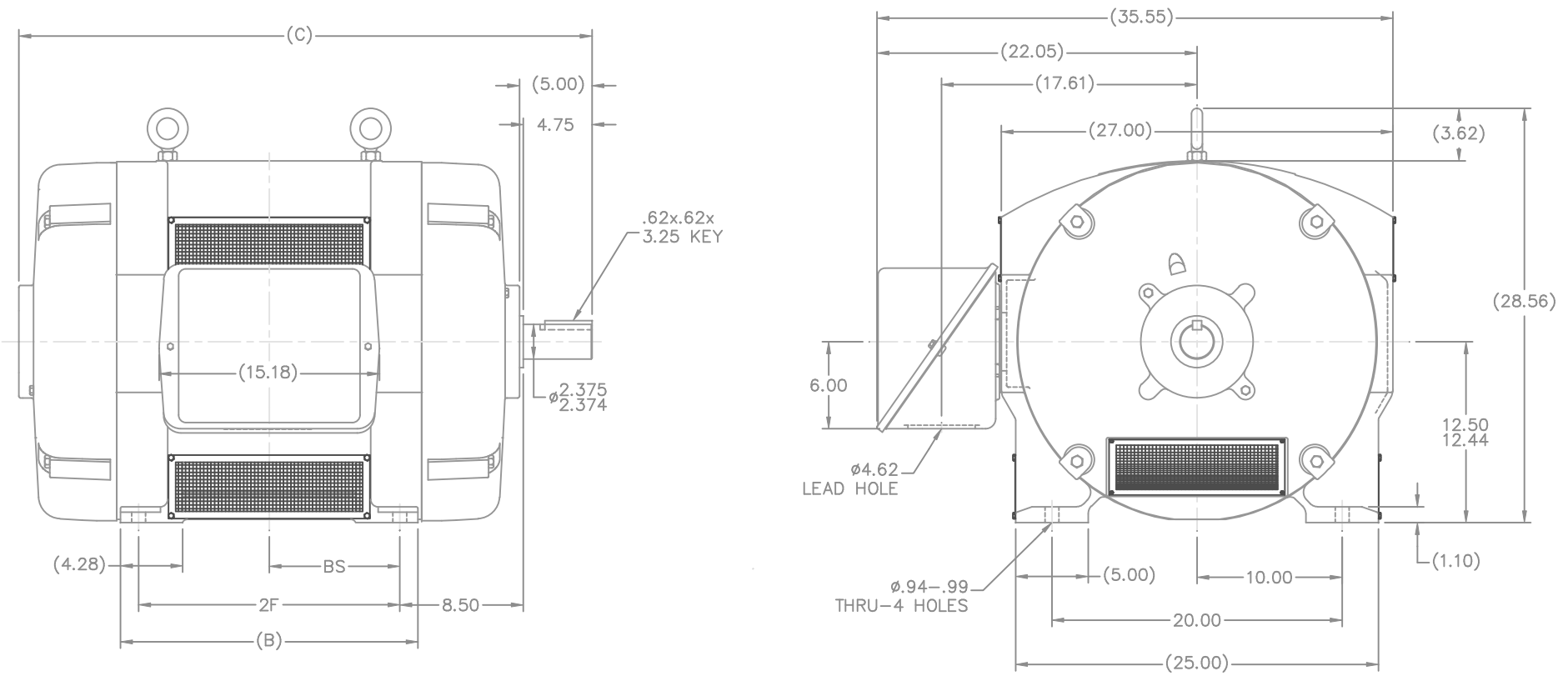
Nameplate Specifications

Output HP	400 Hp	Output KW	300.0 kW
Frequency	60 Hz	Voltage	460 V
Current	432.0 A	Speed	3560 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Power Factor	91
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	505US	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.011 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	US	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U	Outline Drawing	B-SS509817-2100

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:10/07/2022



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. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

						TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN TLB 11-09-1990					
						DEC.	INCHES			CHK	GP 11-09-1990				
						.X	±.1			APPD	ML 11-09-1990				
4 REDRAWN TO AUTOCAD						KL	02-28-2005	TITLE OUTLINE		SCALE	9=64				
3 UPDATED C'BOX GEOMETRY CN 28403						DRS	02-17-2000	505US FR. - DR.PR. - SCREENED		REF					
2 REDRAWN ON CADD						TLB	11-09-1990	MAT'L		FMF	MU62291				
NO. REVISION						BY & DATE		CHK	ANG	±7'30"	FINISH	PREV			
DASH						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 SS509817		SIZE	DRAWING NO.	PAGE	OF	REV.
2100	505US	20.50	39.50	18.00	9.00	DIST	WA	B	SS509817	4					

IF MOTOR HAS 9 LEADS

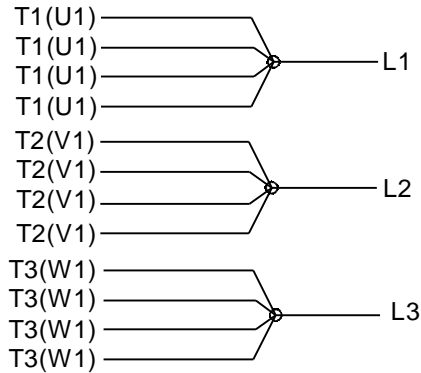


IF MOTOR HAS 6 LEADS



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
<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]																								
ECO DESCRIPTION UPDATED TO SOLIDWORKS <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>			APPROVED BY GK	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 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS]			DATE 09-30-1996	EE7300U																			
REFERENCE	THIRD ANGLE PROJECTION	SIZE A				DRAWING NUMBER			SHEET 1 OF 1																	

Data Sheet

Date: 9/30/2022
 Customer: _____
 Attention: _____
 Submitted by: _____



505USTDS17006

Submittal

Data @ 460 V

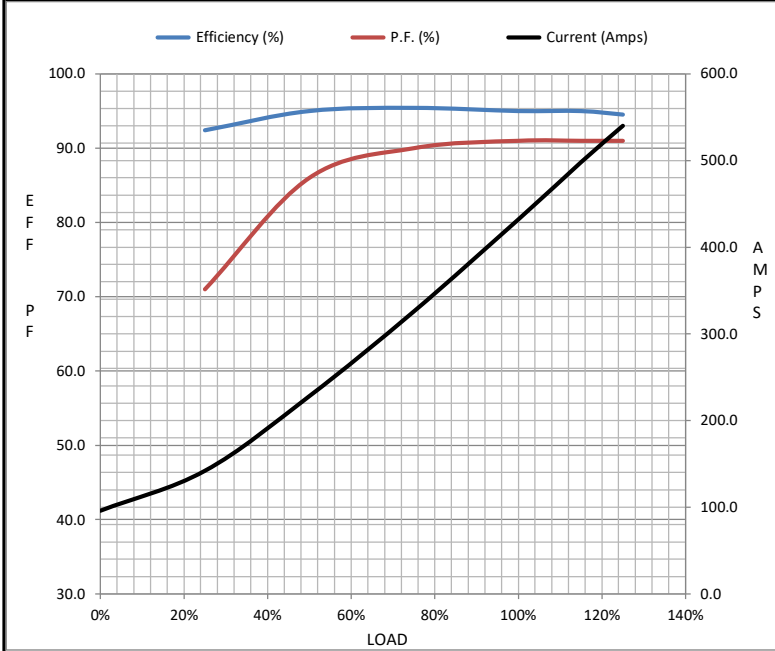
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	96.0	142	228	326	432	498	540	2,900
Torque (ft-lb)	0.00	146	293	441	590	680	740	850
RPM	3600	3590	3580	3570	3560	3,555	3550	0
Efficiency (%)		92.4	95.0	95.4	95.0	95.0	94.5	
P.F. (%)	6.5	71.0	86.0	90.0	91.0	91.0	91.0	25.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3560	3600
Current (Amps)	2,900	2,600	1,800	432	96.0
Torque (ft-lb)	850	775	1,675	590	0.00

Information Block				
HP	400.0			
Sync. RPM	3600			
Frame	505			
Enclosure	DP			
Construction	TDS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	47.0 Lb-Ft ²			
Ref Wdg	T505219 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	NONE			
Outline Dwg				
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0090	0.0070	0.0740	0.0400	2.7640



Speed - Torque Curve

