

PRODUCT INFORMATION PACKET

Model No: 505UTDS16102
Catalog No: M752
125,900,DP,505P,3/60/460
Vertical Solid Shaft P-Base



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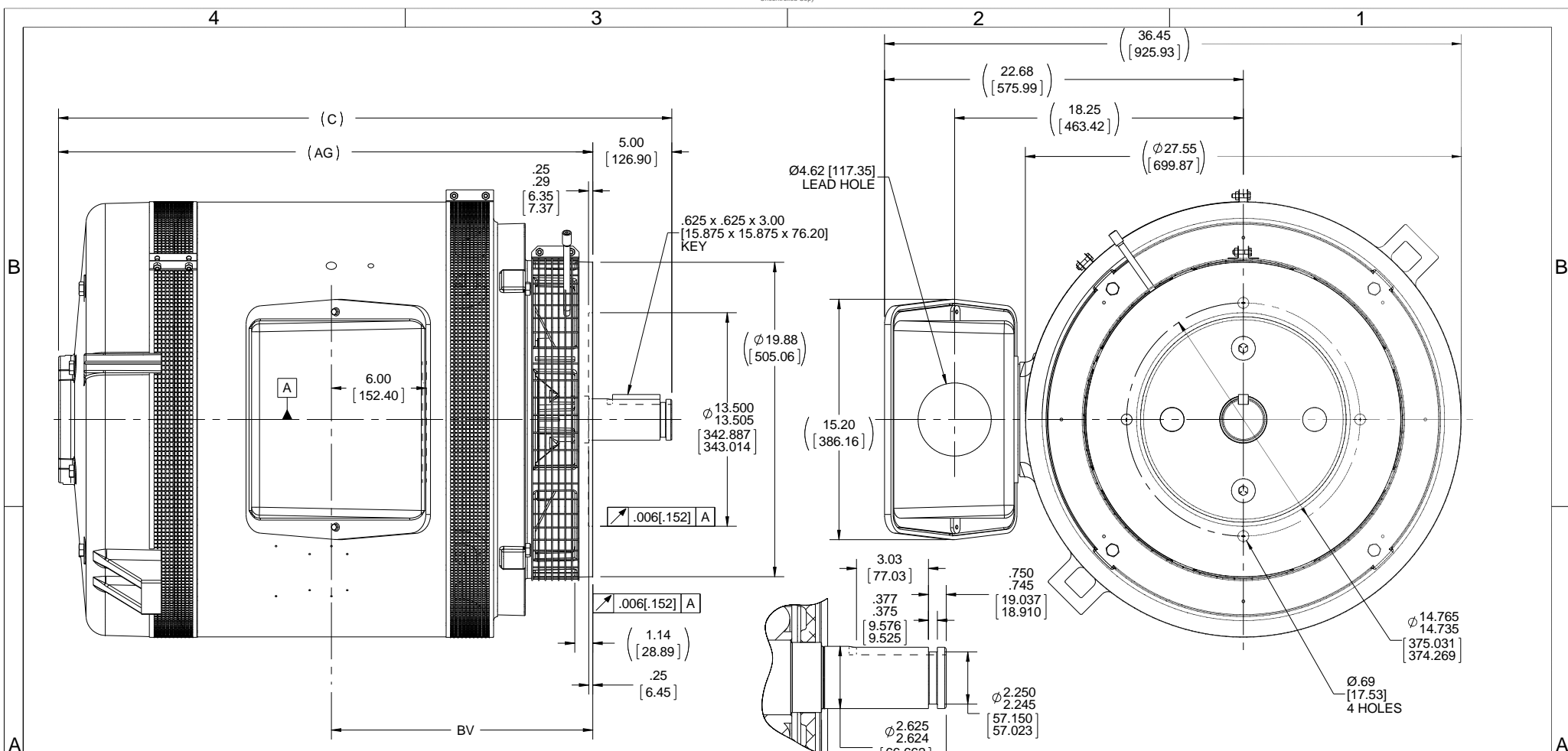
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	170.0 A	Speed	890 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	F	Frame	505 PV
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6316
Opp Drive End Bearing Size	7319 2	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Mounting	Round	Motor Orientation	SHAFT DOWN
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	P
Overall Length	38.76 in	Frame Length	21.00 in
Shaft Diameter	2.625 in	Shaft Extension	5.00 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS510025-2100	Connection Diagram	A-EE7300U

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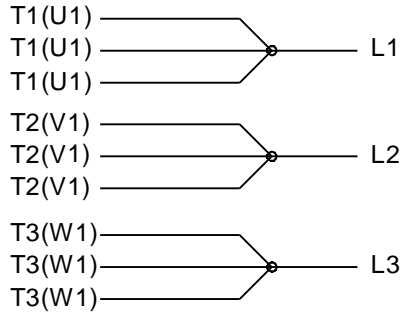


NOTE:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.
 3. DIMENSIONS IN [] DESIGNATE MILLIMETERS.

DETAIL OF SHAFT EXTENSION

DRAWING REVISION J ECO ECO-0098323 ECO DESCRIPTION UPDATED TO CURRENT STANDARDS 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.					REVISION BY JJB APPROVED BY DJK DATE 09-12-2016 DATE 09-12-2016			TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH ±0.1 [±2.5] .X ±0.03 [±0.76] .XX ±0.005 [±0.127] .XXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]			DRAWN BY SMC DATE 08-01-1991 APPROVED BY GK DATE 08-01-1991 REFERENCE THIRD ANGLE PROJECTION		REGAL™ Regal Beloit America, Inc. DESCRIPTION 500P FR. - BB - TS - DR. PR. - P'BASE - SCREENS MATERIAL PROCESS/FINISH SIZE B DRAWING NUMBER SS510025 SHEET 1 OF 1	
DASH	FRAME	C	AG	BV										
2100	505P	38.76 [984.50]	33.77 [857.76]	16.52 [419.61]										
2800	508P	45.76 [1162.30]	40.77 [1035.56]	20.02 [508.51]										

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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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																					
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REFERENCE	THIRD ANGLE PROJECTION	SIZE A				DRAWING NUMBER			SHEET 1 OF 1																	



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:
 ORDER #: A-EE7300U
 REFERENCE MODEL #: 505UTDS16102
 CONN. DIAGRAM: B-SS510025-2100
 CAT #: M752
 OUTLINE: T505837
 CUSTOMER PART #:
 WINDING: NONE 1
 MOUNTING: F1/F2 CAPABLE
 SPEED:
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	900	890	505 PV	DP	TDS	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	170	ACROSS-THE LINE	CONT	F	1.15	40	3300
F.L. EFF		94.5	3/4 LD EFF	94.5	1/2 LD EFF	94.1	GTD EFF	ELECT. TYPE	
F.L. PF		73.0	3/4 LD PF	68.0	1/2 LD PF	56.0	93.0	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)		
739 LB-FT	825	1,150 LB-FT	1,550 LB-FT	210%		
@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	START/SHOUR	MOTOR WGT
75 DBA	84 DBA	130 LB-FT ²	0 LB-FT ²	15 SEC.	0	2050 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	RODENT	BLUE (ENAMEL)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL	ODE DEM ANGU	POLYREX EM	P	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6316	7319 2							

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
0.027	0.02	0.186	0.318	3.137	0.150	DE

* N		INVERTER TORQUE: NONE	
O		INV. HP SPEED RANGE: NONE	
T		ENCODER: NONE	
E		BRAKE: NONE	
S		FT-LB: NONE	
.		VOLTAGE: NONE	
		HZ: NONE	

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/11/2018
 FORM: 3531 REV 4 2/27/06
 UL: V-INS, CONST UL REC

