

# PRODUCT INFORMATION PACKET

Model No: 444TTDN16078

Catalog No: M747

100 HP Vertical Solid Shaft P-Base Motor, 3 phase, 1200 RPM, 230/460 V, 444HPV Frame, ODP  
Vertical Pump Motors



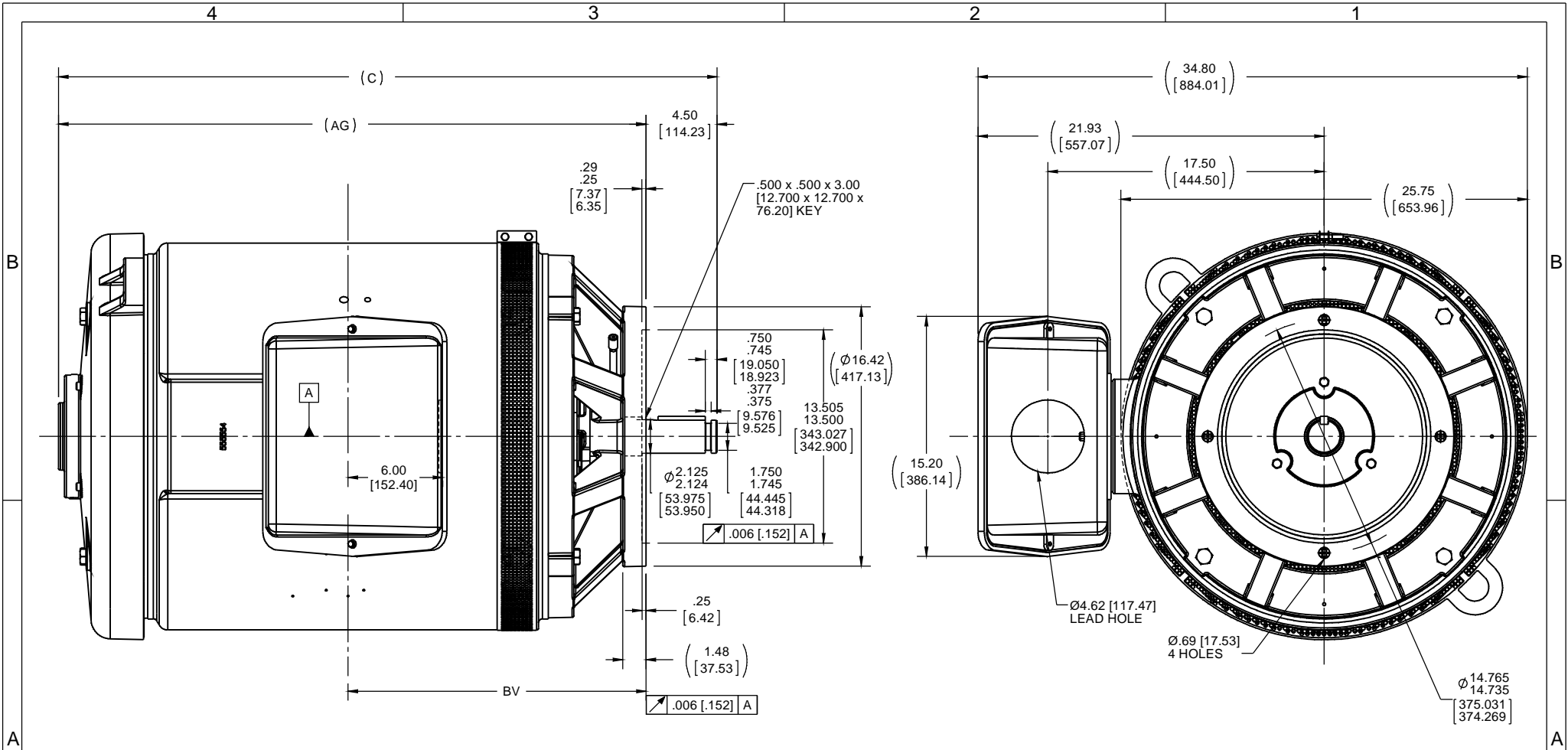
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### Nameplate Specifications

Output HP	<b>100 Hp</b>	Output KW	<b>75.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>246.0/123.0 A</b>	Speed	<b>1190 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>94 %</b>	Power Factor	<b>80</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>444HPV</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6318</b>	Opp Drive End Bearing Size	<b>6316</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>12</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.046 Ohms</b>	Mounting	<b>Round</b>
Motor Orientation	<b>Shaft Down</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Double Angular Contact</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>HP</b>	Overall Length	<b>41.72 in</b>
Frame Length	<b>25.38 in</b>	Shaft Diameter	<b>2.125 in</b>
Shaft Extension	<b>4.5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>B-SS555833-2538</b>	Connection Drawing	<b>A-EE7308K</b>



**NOTES:**

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR

DASH	FRAME	C	AG	BV
2538	444/5PV	41.72 [1059.62]	37.22 [945.39]	18.88 [479.55]

DRAWING REVISION C	REVISION BY AJW	DATE 07-01-2014	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.01 [±0.25] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DRAWN BY TJW	Regal Beloit America, Inc.
ECO ECO-0054258	APPROVED BY DJK	DATE 07-01-2014	DATE 07-16-2013	DATE 07-16-2013	
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [076/381] CORNER FILLETS: .02 [51] MACHINED SURFACES: 125/3.2 INCH 3.2/ mm SHOWN IN [BRACKETS]	APPROVED BY DJK	DESCRIPTION <b>OUTLINE</b> 444/5PV FR. -DR.PR. -PBASE
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			THIRD ANGLE PROJECTION	REFERENCE	DRAWING NUMBER <b>SS555833</b>

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 <b>REGAL - BELOIT CORPORATION</b>	DRAWN PGK 06-04-1997			
NO.	REVISION	BY & DATE	CHK	ANG	±		INCHES	CHK	ML 06-05-1997	
E	CORRECTED IEC MARKINGS	ECO-0111208	WGJ	01-23-2017	EMH	DEC.	±.1	APPD	GK 06-15-1997	
D	RE-DRAWN WITH REGAL LOGO	ECO-0110493	WGJ	09-30-2016	EMH	.XX	±.02	TITLE CONNECTION DIAGRAM		
8	ADDED IEC DESIGNATIONS	MU95020	TJW	4/30/2010	MJS	.XXX	±.005	SCALE		
7	REVISED HIGH VOLTAGE L2 WAS L3	CN52600-354	MRB	09-21-1998		.XXXX	±.0005	REF		
6	REDRAWN ON CADD		PGK	06-05-1997				FMF		
								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 EE7308K			SIZE	DRAWING NO. PAGE OF	REV.
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Data Sheet

Date: 1/28/2019  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



444TTDN16078

Submittal

Data @ 460 V

Motor Load Data

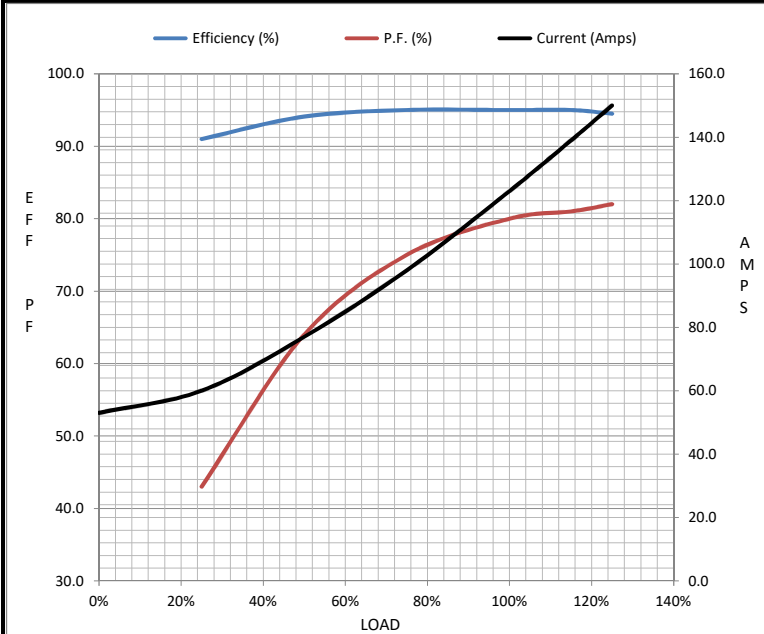
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	53.0	60.0	77.0	98.0	123	139	150	725
Torque (ft-lb)	0.00	110	220	331	442	508	554	750
RPM	1200	1197	1195	1192	1190	1,188	1186	0
Efficiency (%)		91.0	94.1	95.0	95.0	95.0	94.5	
P.F. (%)	4.0	43.0	64.0	75.0	80.0	81.0	82.0	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1190	1200
Current (Amps)	725	600	425	123	53.0
Torque (ft-lb)	750	525	1,100	442	0.00

Information Block

HP	100.0			
Sync. RPM	1200			
Frame	444			
Enclosure	DP			
Construction	TDN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	55.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T4446118 NONE			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS555833-2538			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0330	0.0200	0.2360	0.2780	4.8760



Speed - Torque Curve

