

PRODUCT INFORMATION PACKET

Model No: 405TTDS16102

Catalog No: M740

60 HP Vertical Solid Shaft P-Base Motor, 3 phase, 900 RPM, 230/460 V, 405HPV Frame, ODP
Vertical Pump Motors

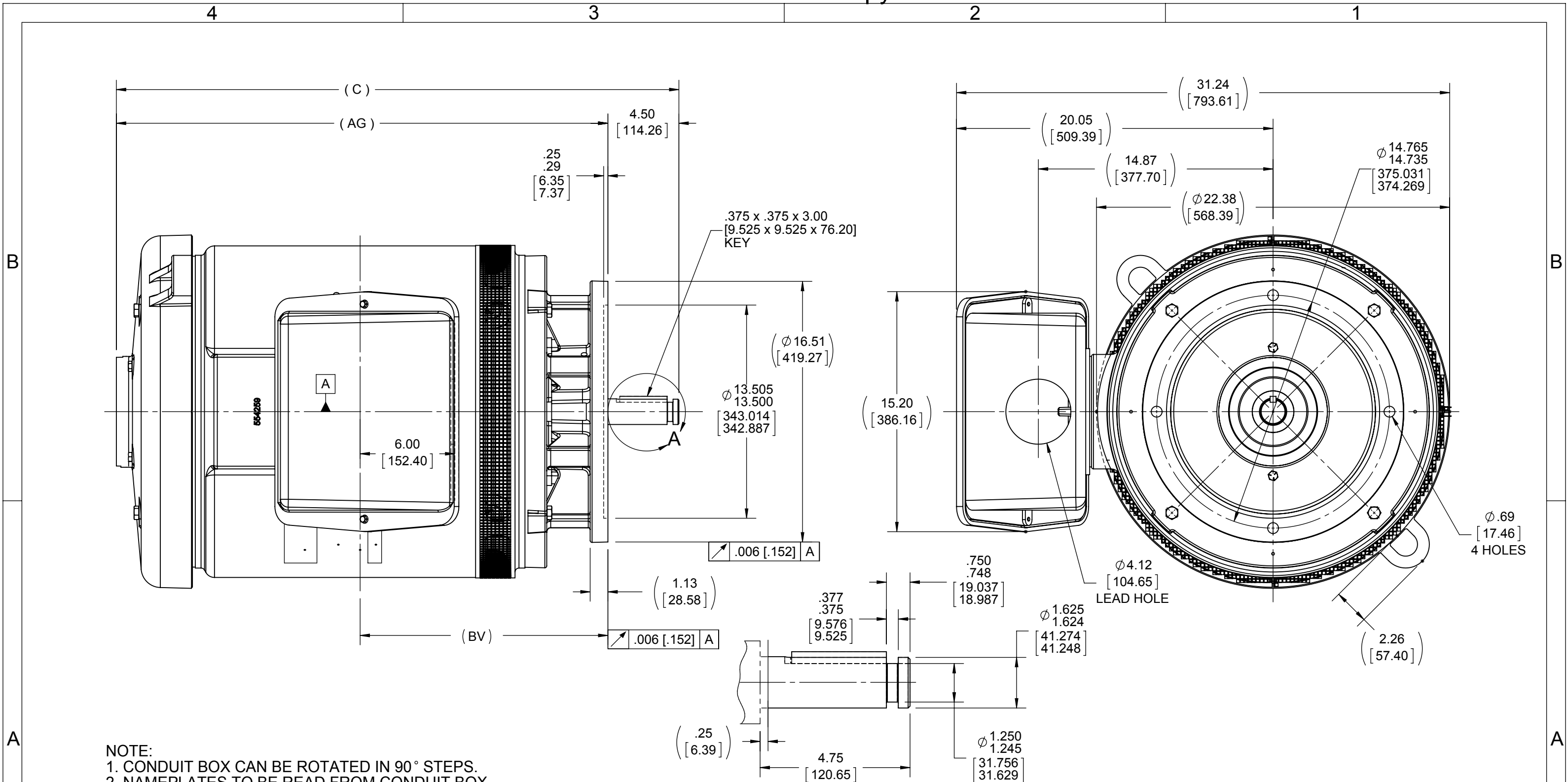


Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	160.0/80.0 A	Speed	885 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	75.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	405HPV	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	7314
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	8	Rotation	Reversible
Resistance Main	.121 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	HP	Overall Length	35.64 in
Frame Length	20.88 in	Shaft Diameter	1.625 in
Shaft Extension	4.50 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS555070-2088	Connection Drawing	A-EE7308



NOTE:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

DETAIL OF SHAFT EXT.

DASH	FRAME	C	AG	BV
2088	400PV	35.64 [905.26]	31.14 [790.96]	15.70 [398.78]

DRAWING REVISION D	REVISION BY JJB	DATE 03-31-2014
ECO ECO-0048460	APPROVED BY	DATE
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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]
 REMOVE BURRS & BREAK SHARP
 EDGES: .003/.015 [0.076/.381]
 CORNER FILLETS: .02 [0.51]
 MACHINED SURFACES: 125 3.2
 INCH mm
 mm SHOWN IN [BRACKETS]

DRAWN BY
CJR
 DATE
03-01-2012
 APPROVED BY
DJK
 DATE
03-01-2012
 PROCESS/FINISH
 THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
400PV FR. - DR. PR. - VERTICAL

MATERIAL

SIZE **B** DRAWING NUMBER **SS555070** SHEET **1 OF 1**



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02			SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			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 ee7308	SIZE A	DRAWING NO. EE7308	PAGE OF 5	REV. 5
							DIST WP					



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 405TTDS16102
 CONN. DIAGRAM: A-EE7308 CAT #: M740
 OUTLINE: B-SS555070-2088 CUSTOMER PART #: _____
 WINDING: T405818 NONE 1 MOUNTING: F1/F2 CAPABLE
 SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	900	885	405HPV	DP	TDS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	160/80	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	92.8	1/2 LD EFF	91.7	GTD EFF	92.4	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	75.5	3/4 LD PF	69.5	1/2 LD PF	58.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
355 LB-FT	435	745 LB-FT 210%	900 LB-FT 254%	55

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
70 dBA	79 dBA	36.5 LB-FT ²	0 LB-FT ²	20 SEC.	0	1100 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	ODE						
BALL	EM ANGU	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	7314						

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
0.084	0.049	0.373	0.563	6.953	0.150	DE

* N O T E S *	INVERTER TORQUE: NONE					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE					
	NONE NONE PPR					

PREPARED BY: FAREEDA DUDEKULA	BRAKE: NONE
DATE: 9/11/2018	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC

Data Sheet

Date: 11/30/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



405TTDS16102

Submittal

Data @ 460 V

Motor Load Data

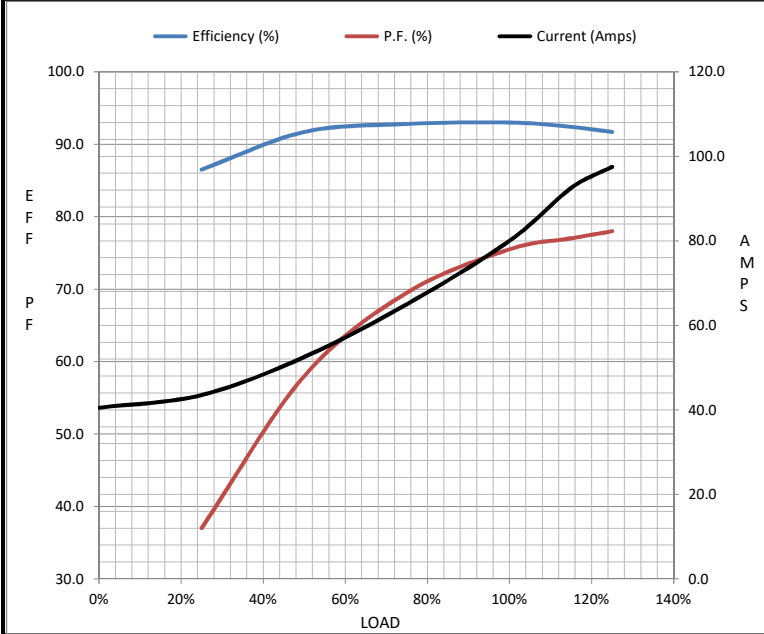
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	40.5	43.5	52.5	65.0	80.0	92.5	97.5	435
Torque (ft-lb)	0.00	88.0	176	265	355	408	445	745
RPM	900	896	894	890	885	884	882	0
Efficiency (%)		86.5	91.7	92.8	93.0	92.4	91.7	
P.F. (%)	4.5	37.0	58.0	69.5	75.5	77.0	78.0	39.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	850	885	900
Current (Amps)	435	350	260	80.0	40.5
Torque (ft-lb)	745	675	900	355	0.00

Information Block

HP	60.0			
Sync. RPM	900			
Frame	405			
Enclosure	DP			
Construction	TDS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	36.5 Lb-Ft ²			
Ref Wdg	T405818 NONE			
Sound Pressure @ 1M	70 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS55070-2088			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0840	0.0490	0.3730	0.5630	6.9530



Speed - Torque Curve

