

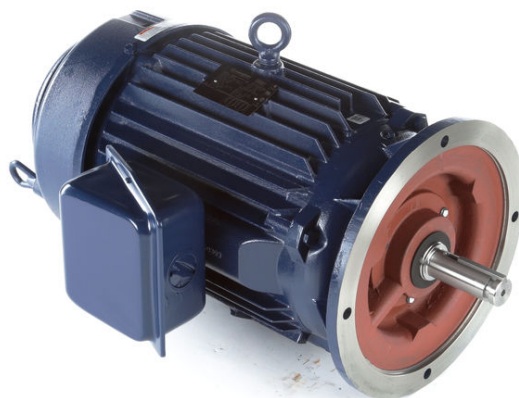
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTFS16106

Catalog No: M931B

150 HP, Vertical Solid Shaft P-Base Motors, 3 phase, 1200 RPM, 460 V, 449HPV Frame, TEFC
Vertical Pump Motors



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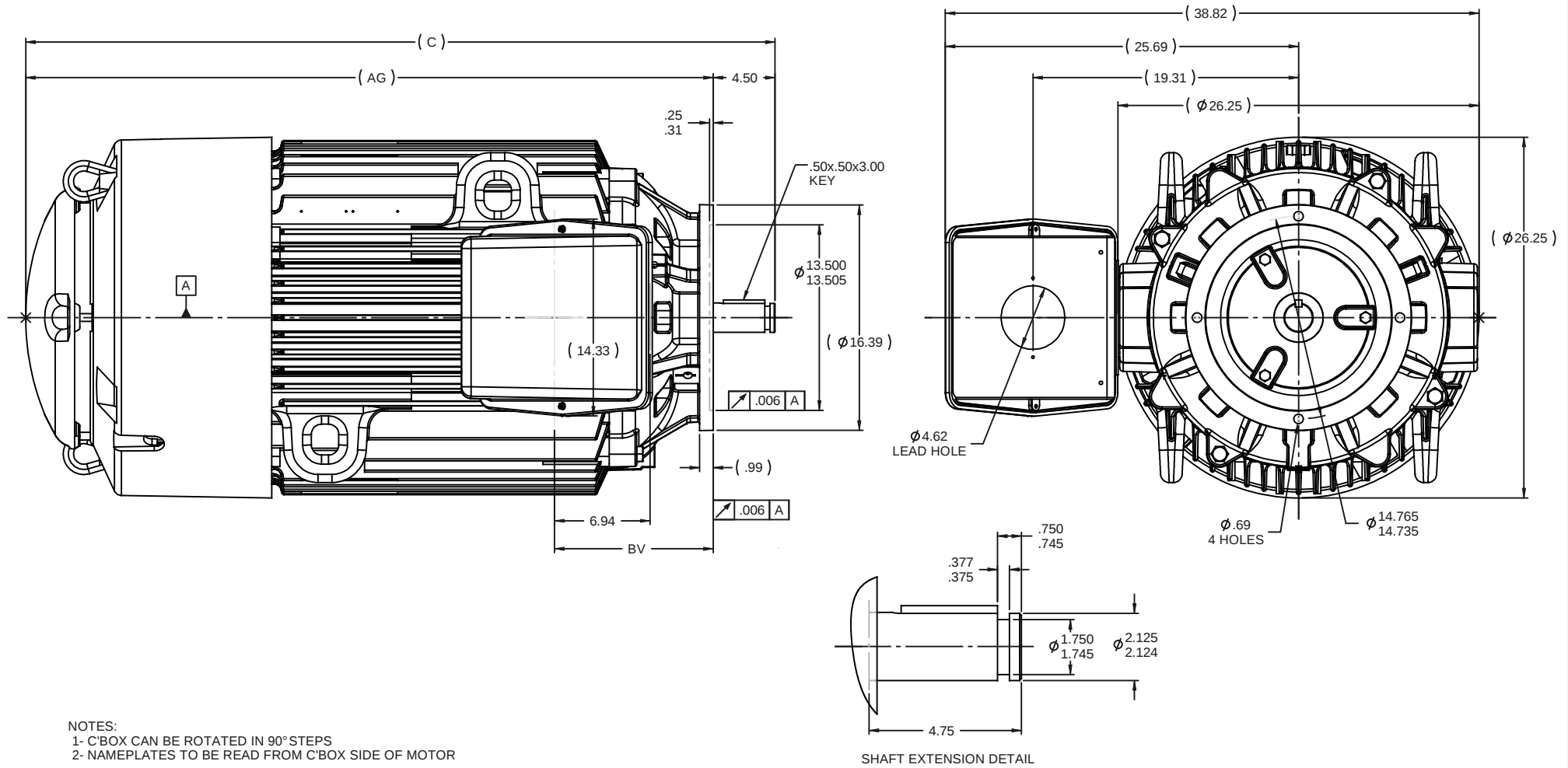
RegalRexnord

Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	205.0 A	Speed	890 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	449HPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Resistance Main	.022 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	54.58 in
Frame Length	28.77 in	Shaft Diameter	2.125 in
Shaft Extension	4.50 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS515828-2875	Connection Drawing	A-EE7300U



DASH	FRAME	C	AG	BV
2875	447/449HP	54.48	49.98	11.54

				TOLERANCES UNLESS SPECIFIED	MARATHON ELECTRIC	DRAWN DMT 10-03-1996	
				DEC INCHES		CHK ML 10-04-1996	
3	FRAME GEOMETRY REVISED CN 40098	DRS 11-07-2006	ML XX	$\pm .03$	TITLE OUTLINE - P'BASE 447-449HP FR. - TEFC	APPR MJA 10-04-1996	SCALE 1:7
2	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML XXX	$\pm .005$		REF	
1	NEW DRAWING - DEV. ENG. - MARKETING	DMT 10-04-1996	ML XXXX	$\pm .0005$	MATL	FMF	
NO	REVISION	BY & DATE	CHK ANG	$\pm 7'30''$	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 SS515828	SIZE B	DRAWING NO SS515828
				DIST WA			REV 3

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: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY DRS	 Regal Beloit America, Inc.				
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015		DATE 09-27-1996	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE				
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK					
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				REFERENCE					
							THIRD ANGLE PROJECTION		SIZE A



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 #: 449TTFS16106
CONN. DIAGRAM: A-EE7300U CAT #: M931B
OUTLINE: B-SS515828-2875 CUSTOMER PART #: _____
WINDING: T449821 NONE 1 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	900	890	447/449HPV	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	205	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF	95.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	72.0	3/4 LD PF	67.0	1/2 LD PF	56.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
885 LB-FT	1,085	1,350 LB-FT 153%	1,950 LB-FT 220%	65

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	130 LB-FT²	0 LB-FT²	20 SEC.	0	3050 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	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6318						

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
0.017	0.014	0.168	0.255	2.57	0.150	ODE

* 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

449TTFS16106

Date: 12/3/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

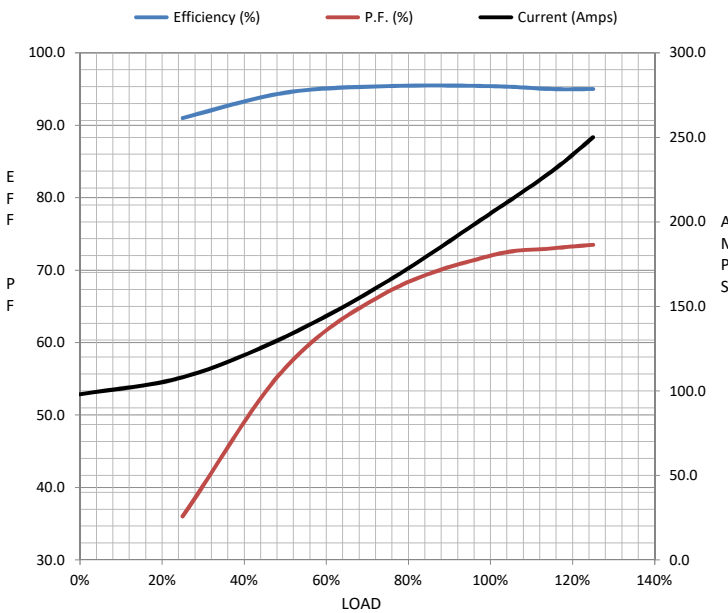
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	98.0	108	132	165	205	230	250	1,085	
Torque (ft-lb)	0.00	220	440	662	885	1,020	1,110	1,350	
RPM	900	898	896	892	890	888	886	0	
Efficiency (%)		91.0	94.5	95.4	95.4	95.0	95.0		
P.F. (%)	3.5	36.0	56.5	67.0	72.0	73.0	73.5	26.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	865	890	900
Current (Amps)	1,085	977	610	205	98.0
Torque (ft-lb)	1,350	1,215	1,950	885	0.00

Information Block

HP	150.0			
Sync. RPM	900			
Frame	449			
Enclosure	TEFC			
Construction	TFS			
Voltage	460	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	130	Lb-Ft²		
Ref Wdg	T449821	NONE		
Sound Pressure @ 1M	72	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS515828-2875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0170	0.0140	0.1680	0.2550	2.5700



Speed -Torque Curve

