

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TTFN16001

Catalog No: M928B

150 HP Vertical Solid Shaft P-Base Motor, 3 phase, 3600 RPM, 460 V, 445HPV Frame, TEFC
Vertical Pump Motors



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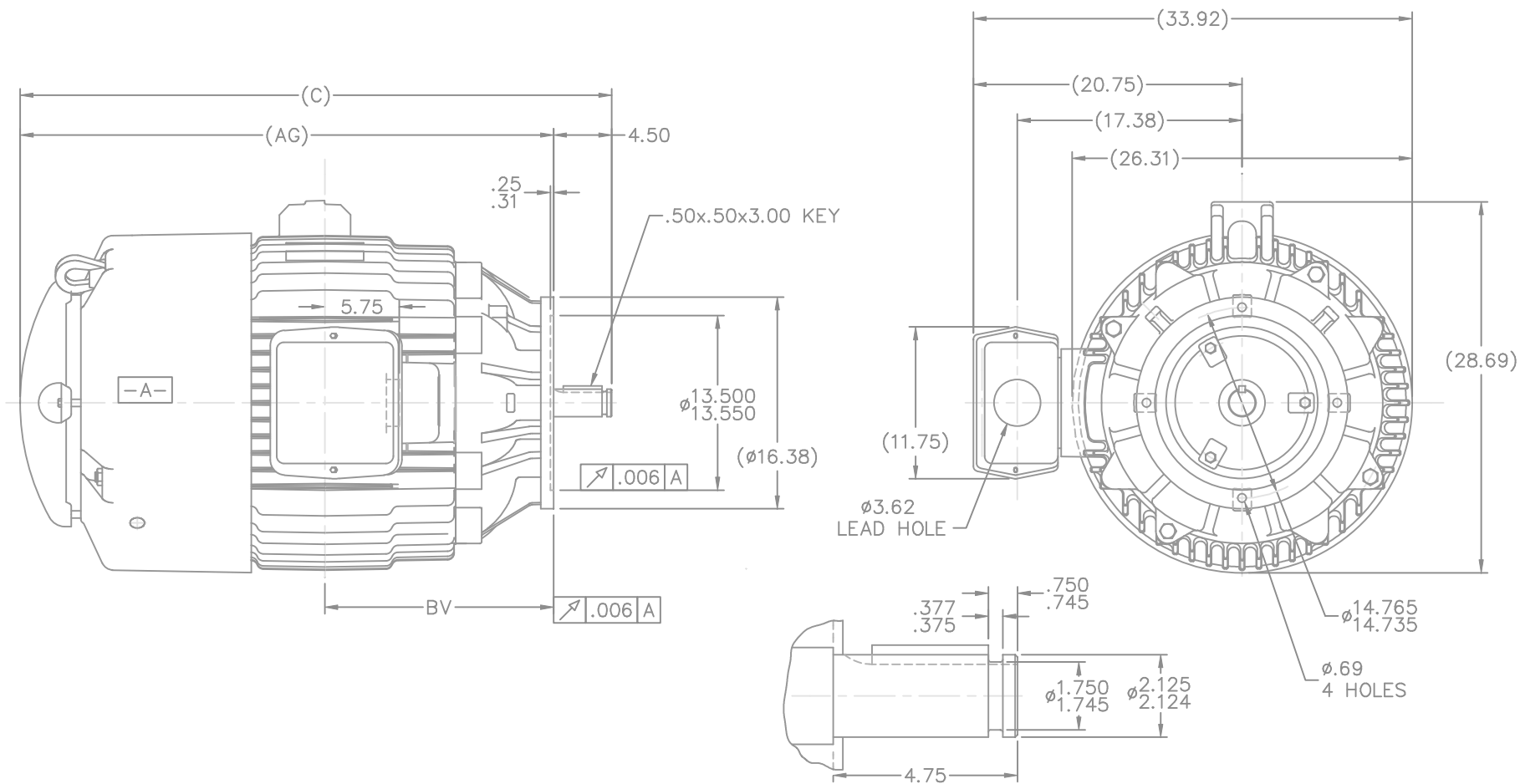
RegalRexnord

Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	168.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445HPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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	2	Rotation	Reversible
Resistance Main	.018 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	43.50 in
Frame Length	20.25 in	Shaft Diameter	2.125 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514394-2025	Connection Drawing	A-EE7300U



NOTES:

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

DASH	FRAME	C	AG	BV
2025	444/445HP	43.50	39.00	17.69

DETAIL OF SHAFT EXTENSION

			TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN DA 12-14-1992			
			DEC.	INCHES		CHK	ML	12-16-1992	
3	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML	.XX	±.03			APPD	TB 12-16-1992
2	REM. EYEBOLT, REPLACED WITH NEW FRAME CN 22904	MJD 04-29-1997		.XXX	±.005	TITLE OUTLINE - "P" BASE			
1	NEW DRAWING	3977863 DA 12-17-1992		.XXXX	±.0005	444-445HP FR. - TEFC			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	MAT'L	FINISH	SCALE	1=8
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 ss514394	SIZE	DRAWING NO.
						DIST	WA	B	SS514394
						PAGE OF			
						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 mm SHOWN IN [BRACKETS]	DRAWN BY DRS	REGALTM Regal Beloit America, Inc.	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE				
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015		DATE 09-27-1996						
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK	MATERIAL PROCESS/FINISH					
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				REFERENCE	SIZE A				DRAWING NUMBER EE7300U	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 445TTFN16001 AA
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: B-SS514394-2025

WINDING#: T445276 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150	112	3600	3575	445HPV	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	168	ACROSS THE LINE	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.8	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 85	1/2 LOAD PF: 78	95.4	SQ CAGE IND RUN	51

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	1085	275 LB-FT 124	640 LB-FT 288	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	31 LB-FT^2	120 LB-FT^2	15 SEC.	2	2200 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6313	6313	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE NONE					
	NONE NONE PPR					
	BRAKE: NONE NONE					
	NONE P/N NONE					
	NONE NONE					
	NONE FT-LB		NONE V		NONE Hz	

DATE: 06/21/2017 05:51:28 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



445TTFN16001

Submittal

Data @ 460 V

Motor Load Data

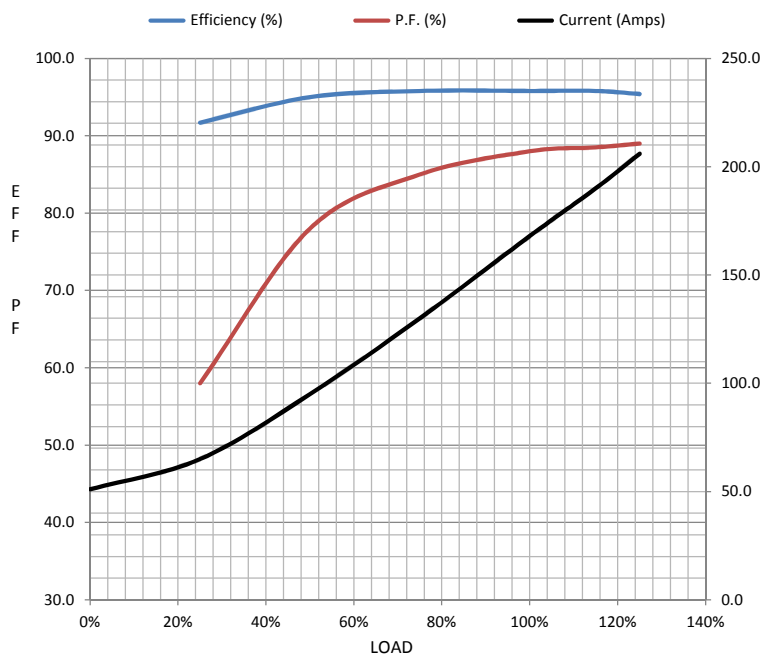
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	51.0	65.0	95.0	130	168	190	206	1,085	
Torque (ft-lb)	0.00	55.0	110	165	221	254	276	275	
RPM	3600	3595	3588	3582	3575	3,570	3568	0	
Efficiency (%)		91.7	95.0	95.8	95.8	95.8	95.4		
P.F. (%)	5.0	58.0	78.0	85.0	88.0	88.5	89.0	21.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3300	3575	3600
Current (Amps)	1,085	977	700	168	51.0
Torque (ft-lb)	275	248	640	221	0.00

Information Block

HP	150.0			
Sync. RPM	3600			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
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	31.0 Lb-Ft²			
Ref Wdg	T445276 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514394-2025			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0130	0.1660	0.1400	5.1600



Speed -Torque Curve

