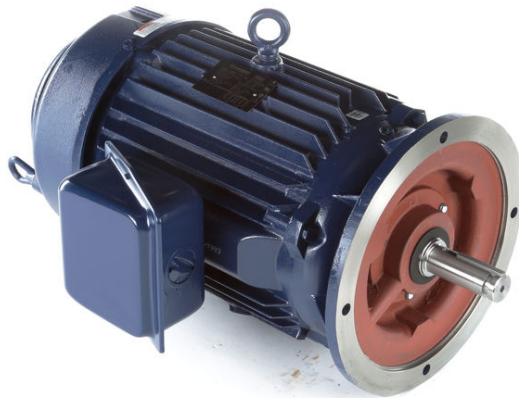


PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TTFN16091
Catalog No: M926B
125,1200,TEFC,445HPV,3/60/460
Vertical Solid Shaft P-Base



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REGAL

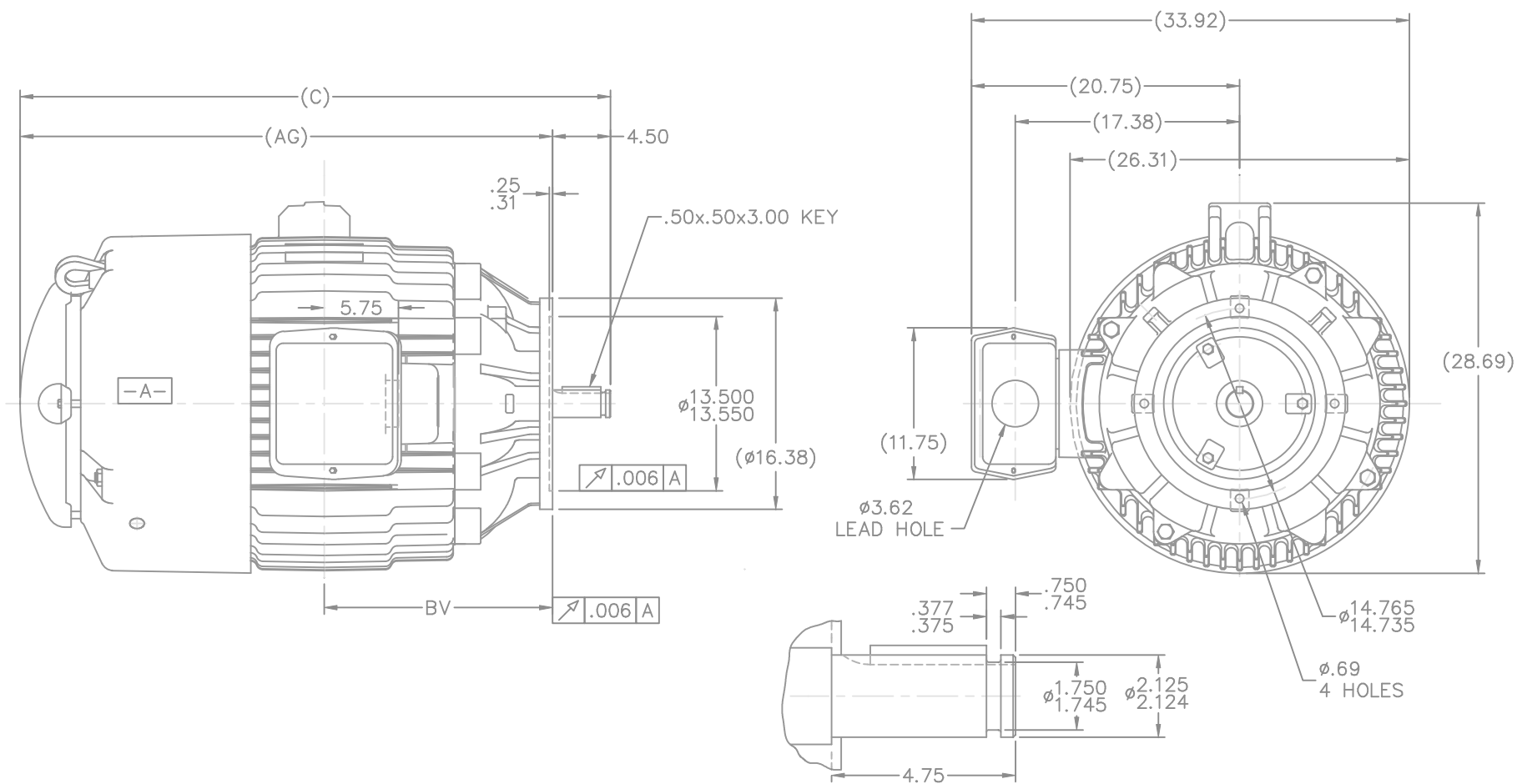


Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	155.0 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	445HPV
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6313
Opp Drive End Bearing Size	6316	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
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	4.50 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS514394-2025	Connection Diagram	A-EE7300U



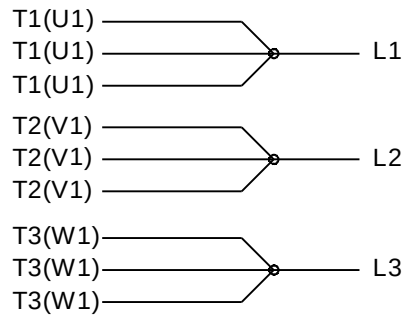
NOTES:

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

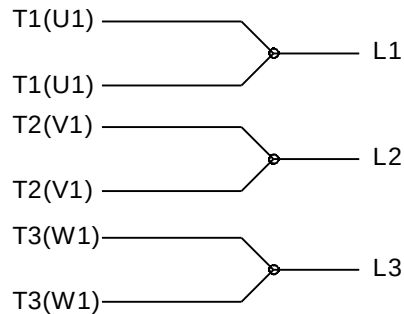
DASH	FRAME	C	AG	BV
2025	444/445HP	43.50	39.00	17.69

			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. PAGE OF REV.
						DIST WA		B	SS514394 3

IF MOTOR HAS 9 LEADS

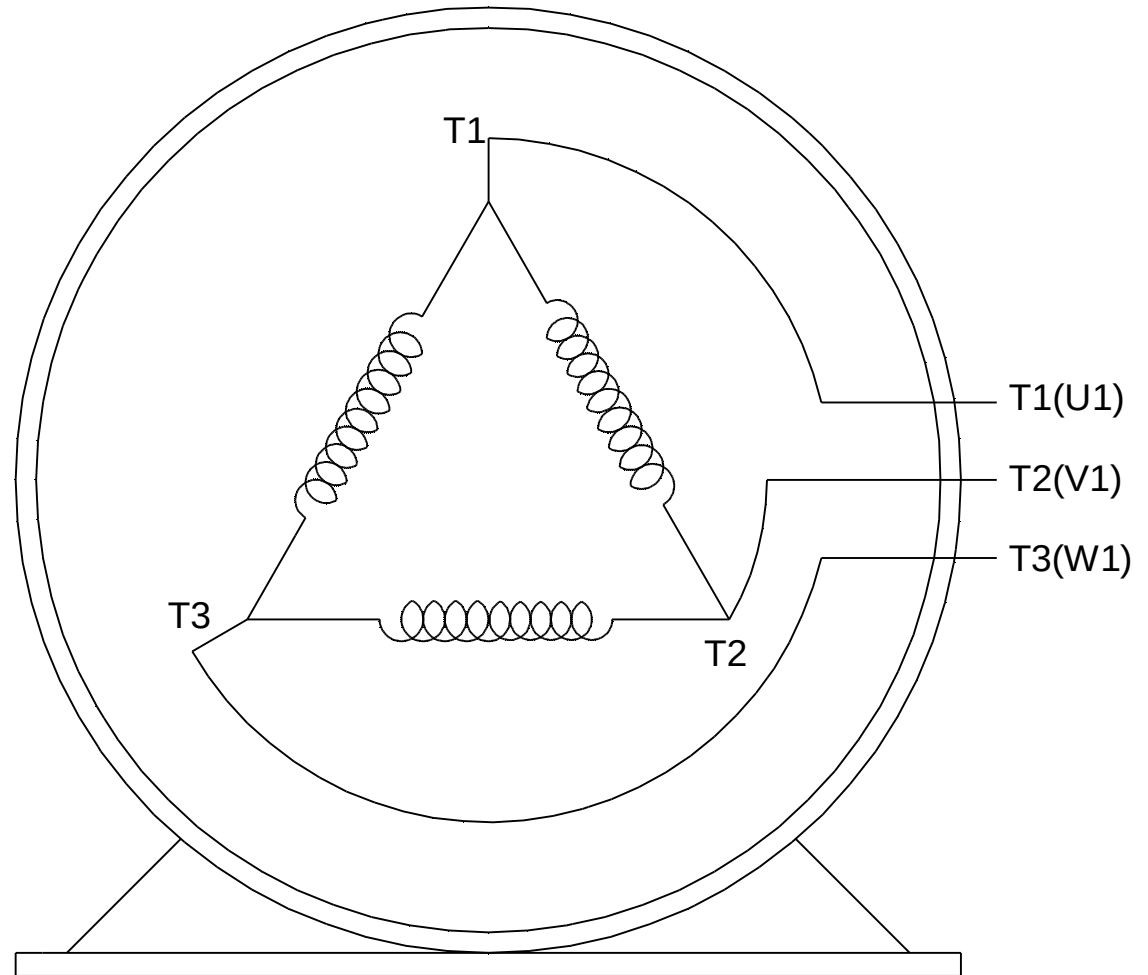
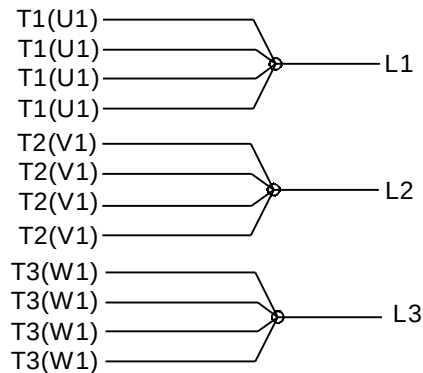


IF MOTOR HAS 6 LEADS



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	REGAL™ Regal Beloit America, Inc.	
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996	DESCRIPTION	
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK		CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
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.			DATE 09-30-1996	REFERENCE		PROCESS/FINISH	
			THIRD ANGLE PROJECTION		SIZE A		DRAWING NUMBER EE7300U



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 #:	44STTN16091
CONN. DIAGRAM:	A-EE7300U	CAT #:	M926B
OUTLINE:	B-SS514394-2025	CUSTOMER PART #:	
WINDING:	T445693	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN				
125	93	1200	1185	445HPV	TEFC	TFN	G	B				
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.			
3	60	460	155	ACROSS THE LINE	CONT	F	1.15	40	3300			
F.L. EFF		95.0	3/4 LD EFF		95.0	1/2 LD EFF		94.5	GTD EFF			
F.L. PF		82.0	3/4 LD PF		79.0	1/2 LD PF		71.0	94.5			
									ELECT. TYPE			
									SQ CAGE IND RUN			
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
553	LB-FT	825	775	LB-FT	140%	1,250	LB-FT	226%				
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME	STARTS/HOUR	MOTOR WGT		
72	DBA	81	DBA	61.0	LB-FT²	2250	LB-FT²	25	SEC.	2	2050	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAIN		
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	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON				
6313	6316									
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				
0.025	0.018	0.204	0.241	3.859	0.150	DE				
* N O T E S										
				INVERTER TORQUE: NONE						
				INV. HP SPEED RANGE: NONE						
				ENCODER: NONE						
				NONE						
				NONE						
				BRAKE: NONE						
				NONE						
				FT-LB: NA						
				VOLTAGE: NONE						
				UL: V/INS, CONST UL REC						
				HZ:						

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/11/2018

Data Sheet

445TTFN16091

Date: 9/11/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



Submital

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	56.0	65.0	87.0	117	155	175	188	825
Torque (ft-lb)	0.00	137	275	414	553	637	693	775
RPM	1200	1196	1194	1190	1185	1,182	1180	0
Efficiency (%)		91.7	94.5	95.0	95.0	94.5	94.1	
P.F. (%)	4.0	49.0	71.0	79.0	82.0	82.5	83.0	30.0

Motor Speed Data

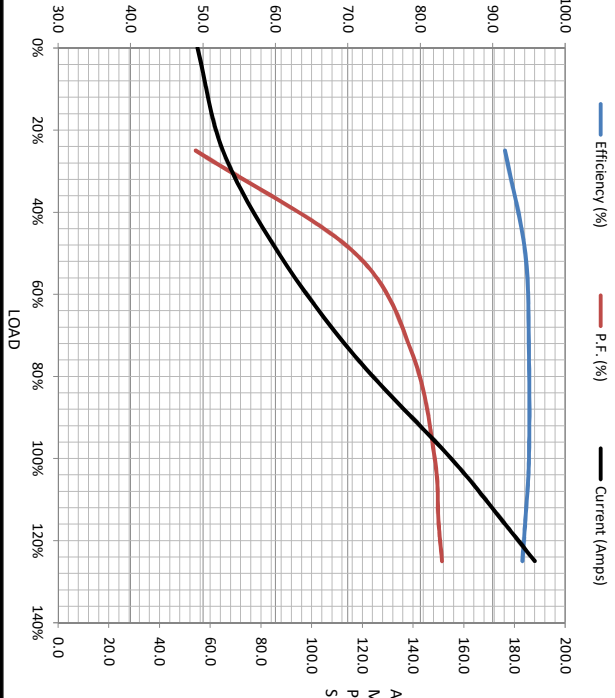
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1185	1200
Current (Amps)	825	750	500	155	55.0
Torque (ft-lb)	775	725	1,250	553	0.00

Information Block

Current (Amps)	825	750	500	155	55.0
Torque (ft-lb)	775	725	1,250	553	0.00

HP		125.0		
Sync. RPM		1200		
Frame		445182TFC6080		
Enclosure		TEFC		
Construction		TFFN		
Voltage		460 V		
Frequency		60 Hz		
Design		B		
LR Code letter		G		
Service Factor		1.15		
Temp Rise @ FL		80 °C		
Duty		CONT		
Ambient		40 °C		
Elevation		1,000 feet		
Rotor/Shaft wk²		61.0 Lb-Ft²		
Ref Wdg		T445693 NONE		
Sound Pressure @ 1M		72 dBA		
VFD Rating		NONE		
Outline Dwg		B-SS514394-2025		
Conn. Diag		A-EE7300U		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0250	0.0180	0.2040	0.2410	3.8590

Efficiency (%)		P.F. (%)		Current (Amps)	
LOAD					



Speed - Torque Curve

