

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 449TTFS7109

Catalog No: M931

150 HP, Vertical Solid Shaft P-Base Motor, 3 phase, 900 RPM, 460 V, 449HPV Frame, TEFC
Vertical Pump Motors

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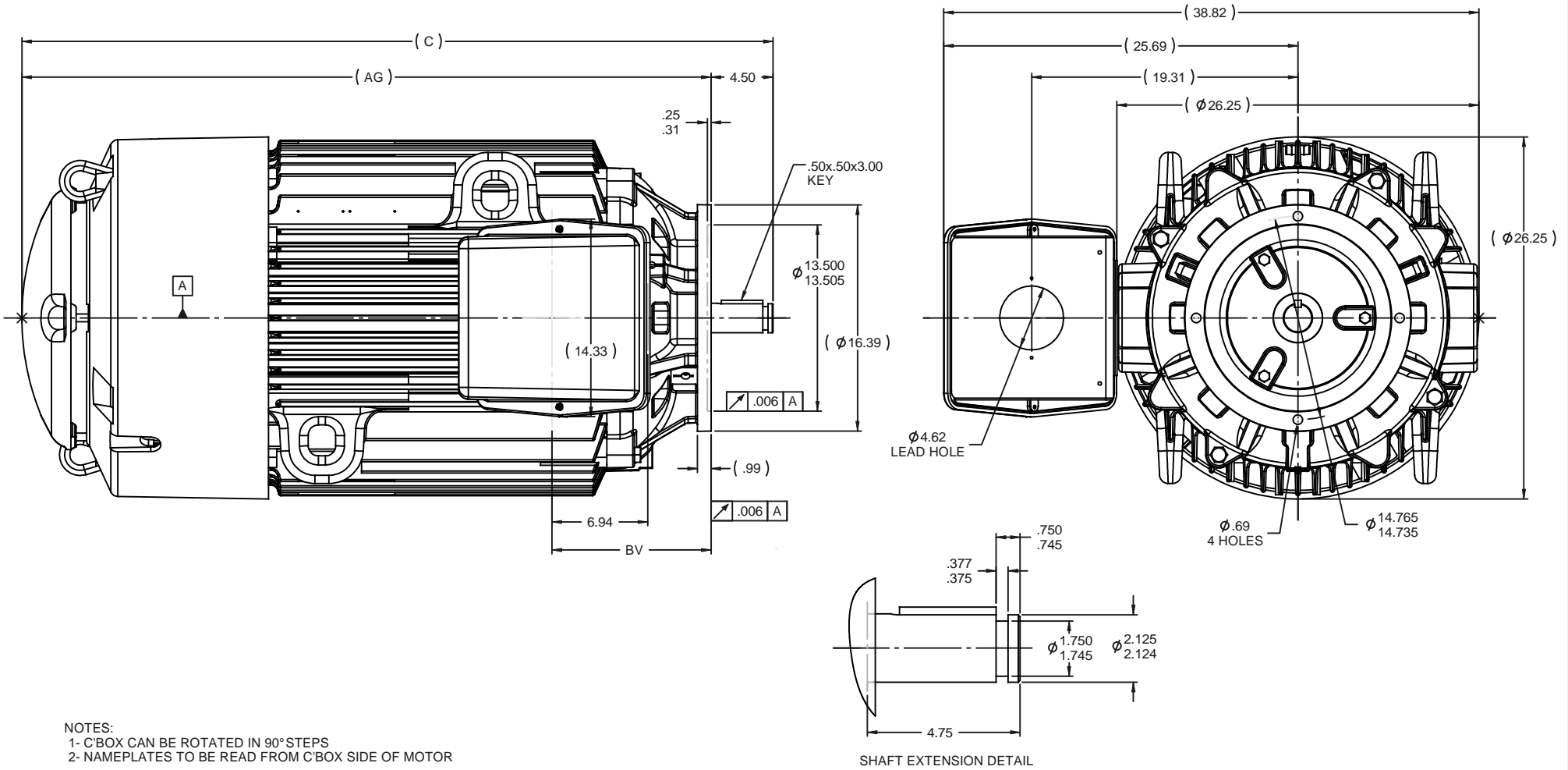
RegalRexnord

Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	206.0 A	Speed	890 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	447/449HPV	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	.0216 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	54.48 in
Frame Length	28.75 in	Shaft Diameter	2.130 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300	Outline Drawing	B-SS515828-2875



NOTES:
 1- C'BOX CAN BE ROTATED IN 90° STEPS
 2- NAMEPLATES TO BE READ FROM C'BOX SIDE OF MOTOR

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	
		X	±.1			APPR	MJA 10-04-1996	
3	FRAME GEOMETRY REVISED CN 40098	DRS 11-07-2006	ML XX ±.03	TITLE OUTLINE - P'BASE		SCALE 1:7		
2	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML XXX ±.005	447-449HP FR. - TEFC		REF		
1	NEW DRAWING - DEV. ENG. - MARKETING	DMT 10-04-1996	XXXX ±.0005	MATL		FMF		
NO	REVISION	BY & DATE	CHK ANG ±7'30"	FINISH		PREV		
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				DIST WA		B	SS515828	
							REV	3

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 449TTFS7109 AA
 CONN. DIAGRAM: A-EE7300
 OUTLINE: B-SS515828-2875

WINDING#: T449811 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150	112	900	890	447/449HPV	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	206	ACROSS THE LINE	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72	3/4 LOAD PF: 68	1/2 LOAD PF: 57.5	93.6	SQ CAGE IND RUN	98

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
885 LB-FT	1015	1075 LB-FT 121	1900 LB-FT 215	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	120 LB-FT^2	- LB-FT^2	20 SEC.	-	2900 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	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6318						

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

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

DATE: 06/21/2017 07:24:56 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

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



449TFS7109

Submittal

Data @ 460 V

Motor Load Data

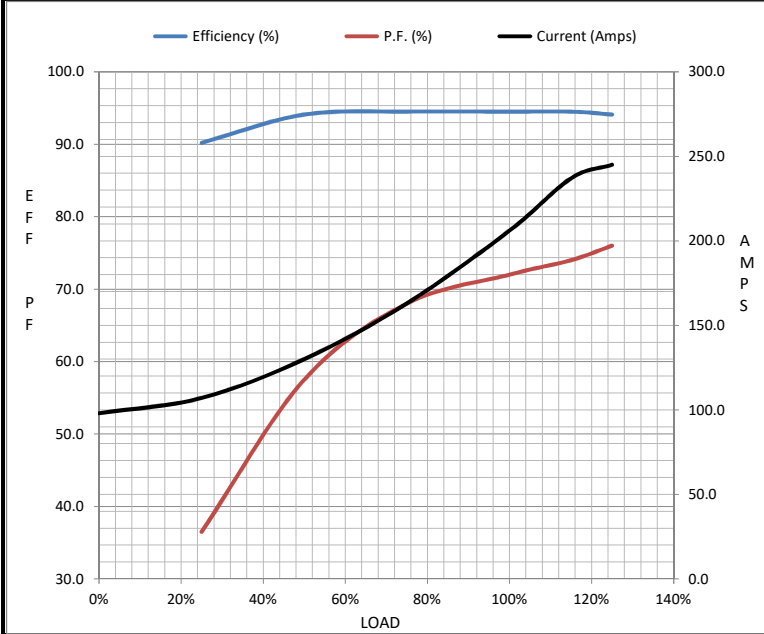
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	98.0	107	130	163	206	237	245	1,015
Torque (ft-lb)	0.00	220	440	662	885	1,015	1,110	1,075
RPM	900	898	895	892	890	888	885	0
Efficiency (%)		90.2	94.1	94.5	94.5	94.5	94.1	
P.F. (%)	3.5	36.5	57.5	68.0	72.0	74.0	76.0	20.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	800	890	900
Current (Amps)	1,015	925	660	206	98.0
Torque (ft-lb)	1,075	1,000	1,900	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	F			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	120 Lb-Ft ²			
Ref Wdg	T449811 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS515828-2875			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0150	0.1700	0.2700	2.6080



Speed - Torque Curve

