

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 324TTFS16011

Catalog No: M904B

40 HP Vertical Solid Shaft P-Base Motor, 3 phase, 3600 RPM, 230/460 V, 324HPV Frame, TEFC  
Vertical Pump Motors



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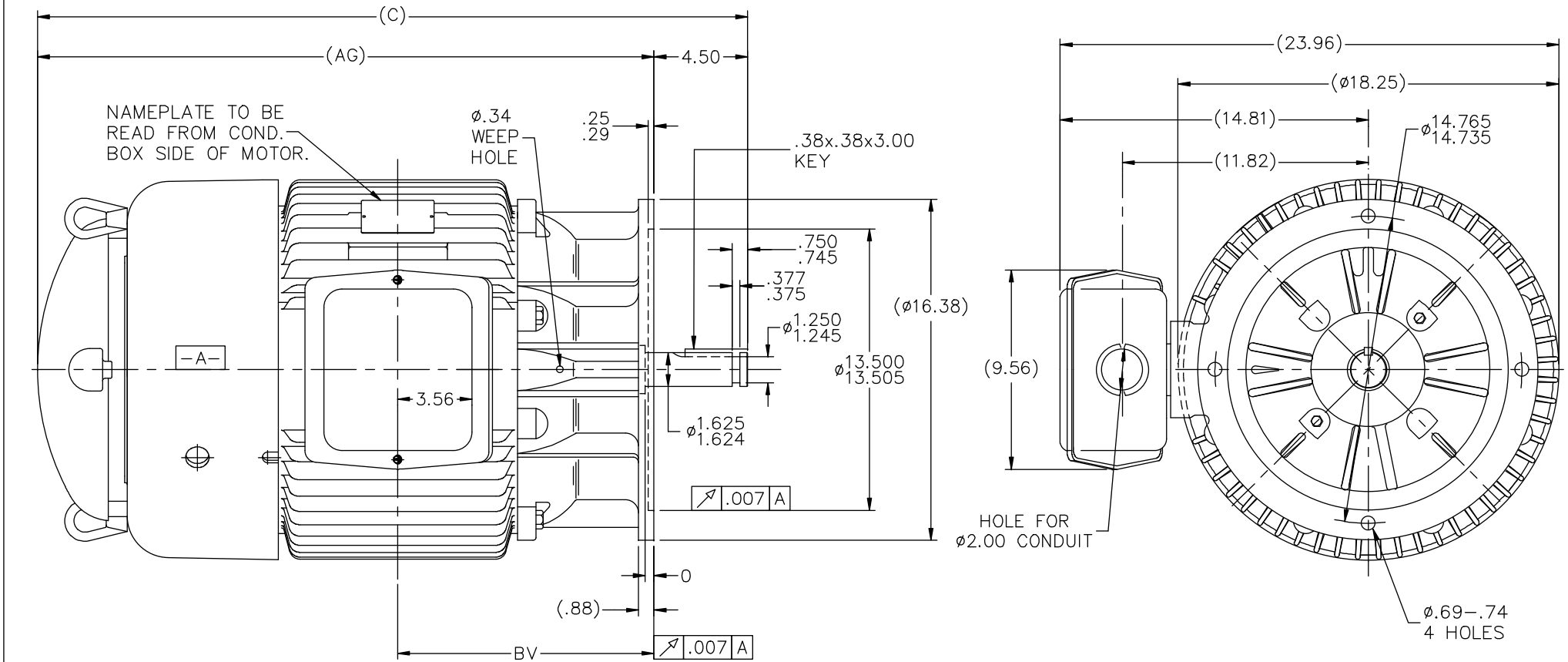
**RegalRexnord**

### Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	94.0/47.0 A	Speed	3550 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	324HPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6311
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	.148 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	35.62 in
Frame Length	13.00 in	Shaft Diameter	1.625 in
Shaft Extension	4.50 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS28363-1300	Connection Drawing	A-EE7308K



DASH	FRAME	C	AG	BV	
1150	324HP	34.12	29.62	12.31	
1300	326HP	35.62	31.12	13.06	

NO.	REVISION	BY & DATE	CHK	ANG	FINISH	CAD FILE	SIZE	DRAWING NO.	PAGE	OF	REV.
11	REV'D SHAFT EXT. TO .750/.745 ECO-0040538	DRO 10-31-2013									
10	REDRAWN IN AUTOCAD	TAT 07-22-2004	ML	.X	$\pm .1$						
9	REVISED TO NEC CONDUIT BOX CN 28428	BJW 02-04-2000		.XX	$\pm .03$						
8	CORRECTED BOLT LOC. ON REAR BRACKET CN 23468	MJD 09-30-1997		.XXX	$\pm .005$						
7	REVISED EYEBOLT LOCATION CN 23750	MRB 02-05-1997		.XXXX	$\pm .0005$						
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						DIST LB					
						CAD FILE ss28363	B	SS28363	11		

LOW VOLTAGEHIGH VOLTAGE

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 <b>REGAL - BELOIT CORPORATION</b>	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"		CHK	ML	06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	± .1				
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	± .02	TITLE			
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	± .005	CONNECTION DIAGRAM			
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	± .0005	DELTA CON. - 3Ø - 9 LEADS			
						MAT'L.			
						FINISH			
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							A	EE7308K	REV.
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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 #: 324TTFS16011  
CONN. DIAGRAM: A-EE7308K CAT #: M904B  
OUTLINE: B-SS28363-1300 CUSTOMER PART #: \_\_\_\_\_  
WINDING: 324267 NONE 2 MOUNTING: F1/F2 CAPABLE  
SPEED: \_\_\_\_\_

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	3600	3550	324HPV	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	94/47	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	92.4	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	86.5	3/4 LD PF	84.0	1/2 LD PF	76.5	93.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
59.0 LB-FT	275	80.0 LB-FT 136%	150 LB-FT 254%	60

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA	4.4 LB-FT²	25 LB-FT²	15 SEC.	2	525 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
6311	6311						

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
0.104	0.078	0.71	0.504	17.892	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 DATE: 9/11/2018			BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ: UL: V-INS, CONST UL REC

FORM: 3531 REV\_4 2/27/06

## Data Sheet

Date: 11/30/2018

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



324TTFS16011

Submittal

Data @ 460 V

## Motor Load Data

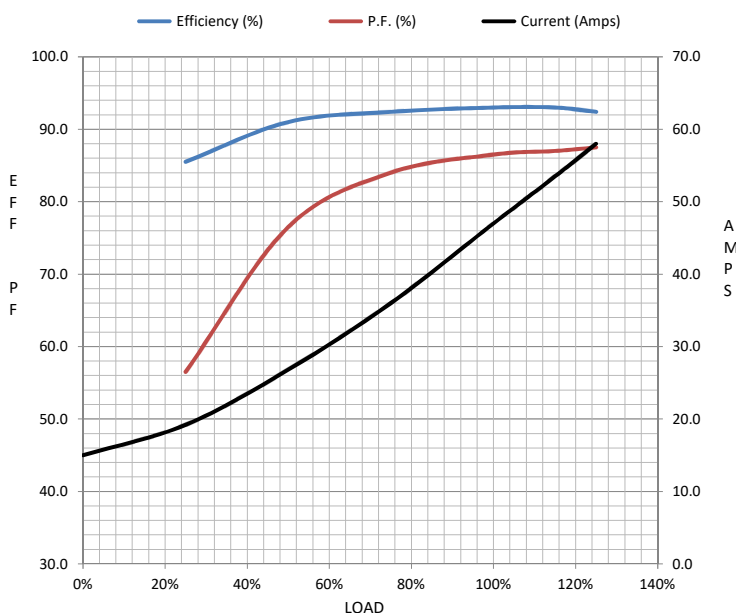
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.0	19.2	26.8	36.0	47.0	53.5	58.0	275	
Torque (ft-lb)	0.00	14.6	29.0	44.0	59.0	68.0	74.0	80.0	
RPM	3600	3588	3575	3565	3550	3,543	3537	0	
Efficiency (%)		85.5	91.0	92.4	93.0	93.0	92.4		
P.F. (%)	8.0	56.5	76.5	84.0	86.5	87.0	87.5	26.5	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3550	3600
Current (Amps)	275	248	168	47.0	15.0
Torque (ft-lb)	80.0	68.0	150	59.0	0.00

## Information Block

HP	40.0			
Sync. RPM	3600			
Frame	324			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	4.4	Lb-Ft²		
Ref Wdg	324267	NONE		
Sound Pressure @ 1M	78	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS28363-1300			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1040	0.0780	0.7100	0.5040	17.8920



## Speed -Torque Curve

