

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TTDN16035

Catalog No: M734

Vertical Pump Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 326HPV Frame, DP



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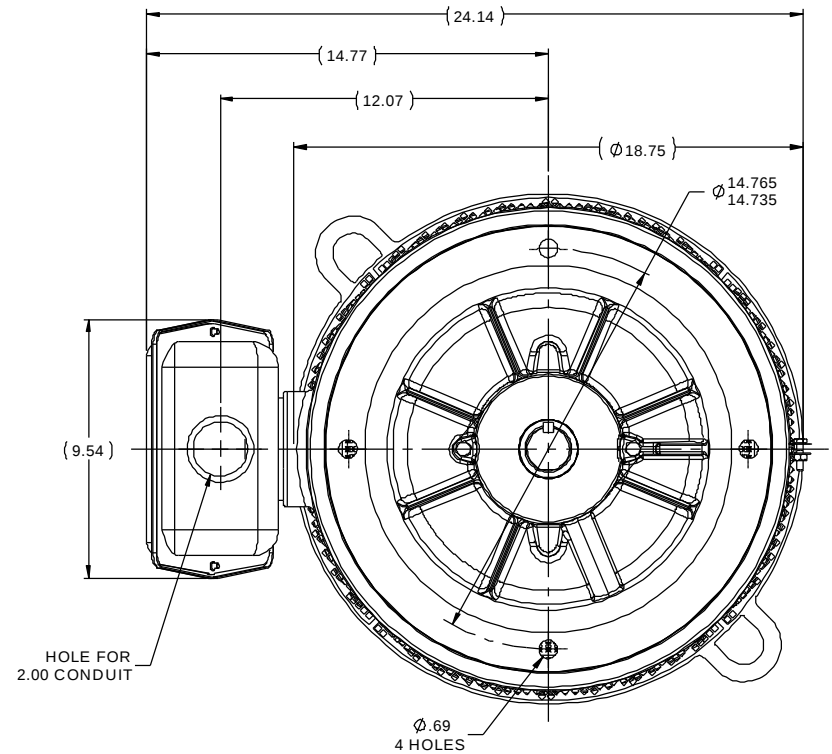
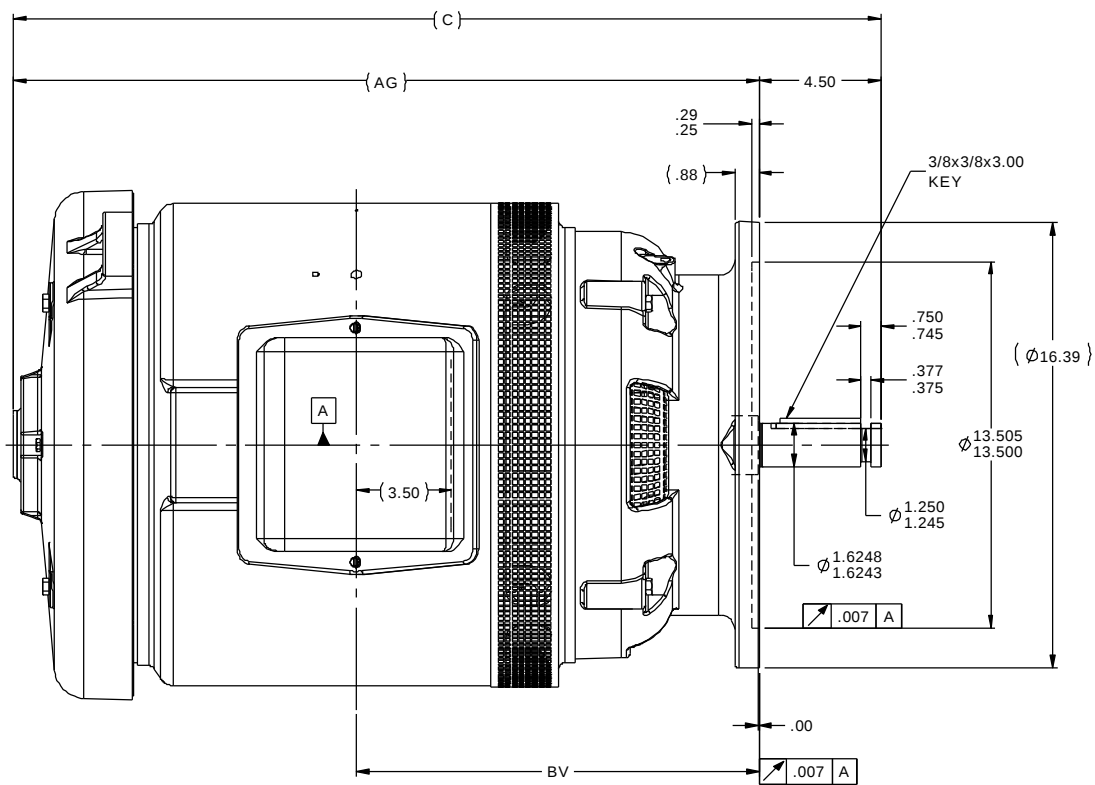
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	230/460 V
Speed	1780 rpm	Service Factor	1.15
Frame	326HPV	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	124.0/62.0 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	7311	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.115 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Single Angular Contact	Frame Material	Cast Iron
Shaft Type	HP	Overall Length	31.93 in
Frame Length	16.12 in	Shaft Diameter	1.625 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308	Outline Drawing	B-SS312503-1612



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR.

DASH	FRAME	C	AG	BV			
1612	284/6HP	31.93	27.43	14.81			

TOLERANCES UNLESS SPECIFIED				marathon [®] electric		DRAWN TJW 4/22/2013	
DEC	INCHES					CHK CTO 5/1/2013	
X	±.1					APPR LMC 5/1/2013	
XX	±.03					SCALE 7:32	
XXX	±.005					REF SS28314	
XXXX	±.0005					FMF MU112462	
NO	REVISION	BY & DATE	CHK	ANG	FINISH	PAGE	OF
			RFP	5/1/2013	PREV	SIZE B	DRAWING NO SS312503
			NETWORK FILE NAME SS312503				REV

THIRD ANGLE
PROJECTION





				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990				
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±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 ee7308		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST WP				A	EE7308			5

CERTIFICATION DATA SHEET

Model#: 326TTDN16035 AA
 CONN. DIAGRAM: A-EE7308
 OUTLINE: B-SS312503-1612

WINDING#: K3264203 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37	1800	1780	326HPV	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	124/62	ACROSS THE LINE	CONTINUOUS	F3	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: 80	3/4 LOAD PF: 76	1/2 LOAD PF: 67	93.6	SQ CAGE IND RUN	50 / 25

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
147 LB-FT	680 / 340	250 LB-FT 169	357 LB-FT 242	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	9.7 LB-FT^2	- LB-FT^2	20 SEC.	2	675 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	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	SINGLE ANGULAR CONTACT						
7311	6311	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

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

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DATE: 06/21/2017 06:48:32 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326TTDN16035

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.0	29.0	38.0	49.0	62.0	68.0	75.0	340	
Torque (ft-lb)	0.00	36.5	73.5	110	147	170	185	250	
RPM	1800	1795	1790	1785	1780	1,775	1772	0	
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6		
P.F. (%)	4.0	45.0	67.0	76.0	80.0	81.0	82.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1685	1780	1800	Information Block																												
Current (Amps)	340	300	193	62.0	25.0	HP	50.0																											
Torque (ft-lb)	250	210	357	147	0.00	Sync. RPM	1800																											
— Efficiency (%) — P.F. (%) — Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>91</td><td>45</td><td>52</td></tr><tr><td>50</td><td>94</td><td>70</td><td>60</td></tr><tr><td>75</td><td>94</td><td>78</td><td>75</td></tr><tr><td>100</td><td>94</td><td>80</td><td>85</td></tr><tr><td>125</td><td>93</td><td>82</td><td>95</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	91	45	52	50	94	70	60	75	94	78	75	100	94	80	85	125	93	82	95	Frame	326			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	91	45	52																									
						50	94	70	60																									
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						Enclosure	DP																											
						Construction	TDN																											
						Voltage	230/460 V																											
						Frequency	60 Hz																											
						Design	B																											
						LR Code letter	F																											
						Service Factor	1.15																											
						Temp Rise @ FL	45 ° C																											
						Duty	CONT																											
						Ambient	40 ° C																											
						Elevation	1,000 feet																											
						Rotor/Shaft wk²	9.7 Lb-Ft²																											
						Ref Wdg	K3264203 NONE																											
						Sound Pressure @ 1M	75 dBA																											
						VFD Rating	NONE																											
						Outline Dwg	B-SS312503-1612																											
Conn. Diag	A-EE7308																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0770	0.0520	0.4880	0.6520	11.5450																														

Speed -Torque Curve

