

02SH10B40T3F2

Technical Data

Company
Contact
Tel.
E-mail

Operating Data

1	Pump type	Single head pump	Fluid	Water
2	No. of pumps	1	Operating temperature t A °F	39.2
3	Nominal flow US g.p.m.	0	pH-value at t A	7
4	Nominal head ft	0	Density at t A lb/ft³	62.4
5	Static head ft	0	Kin. viscosity at t A ft²/s	1.689E-5
6	Inlet pressure psi	0	Vapor pressure at t A psi	14.5
7	Environmental temperature °F	68	Content of solid% Solid size inch	0 0
8	Available system NPSH ft	0	Altitude ft	0

Pump Data

9	Design	Highly efficient stainless steel end suction pumps		
10	Execution	Rotation: 12 oClock [STD]		
11	Operating speed rpm	3500	Impeller Ø	Max. inch 9 7/8
12	Group	M		Designed inch 9 1/2
13	Suction	NPS 2.5 / CL150 / ASME B16.5 (e-SH)		Min. inch 7 11/16
14	Discharge port	NPS 2 / CL150 / ASME B16.5 (e-SH)	Flow	Nominal US g.p.m.
15	Max. casing pressure psi			Max- US g.p.m. 435
16	Max. working pressure psi	164.4		Min- US g.p.m. 70
17	Impeller type	Radial impeller	Head	Nominal ft
18	Head H(Q=0) ft	380		at Qmax ft 249.4
19	Max. shaft power hp	41.4		at Qmin ft 375.7
20	Pump weight lb	125.0	Shaft power hp	
21	Total weight lb	On demand	Efficiency %	
			NPSH 3% ft	

Materials

22	Pump		Shaft Seal	
23	Casing	Stainless steel 316L	John Crane	Elastomer Bellows Shaft Seal
24	Impeller	Stainless steel 316L	Type 21	
25	Wear Ring	Stainless steel 316L	Seal faces	Carbon [STD]
26	Adapter	Gray cast iron class 20B	Stationary ring	Silicon Carbide
27	Ball bearing (outboard)	Steel	Elastomers	FKM
28	Pump shaft	Steel grade 1213	Springs	Stainless steel CF8M (316)
29	Deflector	Buna-N	Other metal parts	Stainless steel CF8M (316)
30	Shaft sleeve	Stainless steel CF8M (316)		
31	Bearing Cover	Gray cast iron class 20B		
32	Ball bearing (inboard)	Steel		
33	Impeller Key	Steel		
34	Seal Housing	Stainless steel 316L		
35	Impeller Washer	Stainless steel CF8M		
36	Bearing Frame	Gray cast iron class 20B		
37	Lip Seal	Steel/Buna-N		
38	V-Ring	Not available		
39	Casing bolt with nut (casing to adapter)	Stainless Steel		
40	Retaining ring	Steel		
41				

Motor Data

42	Manufacturer	Baldor		
43	Specific design	NEMA 3 ph TEPE [STD]		
44	Type	Frame 324JM - 40 hp		
45	Rated power	40 hp	Item no.	
46	Nominal speed	3600 rpm	Service factor	1.15
47	Frame size	324JM	Electric voltage	460 V
48	Weight lb	487.0		

Base Plate

49	Name		Remarks
50	Weight lb		

Project	Project ID	Created by	Created on 09-04-19	Last update
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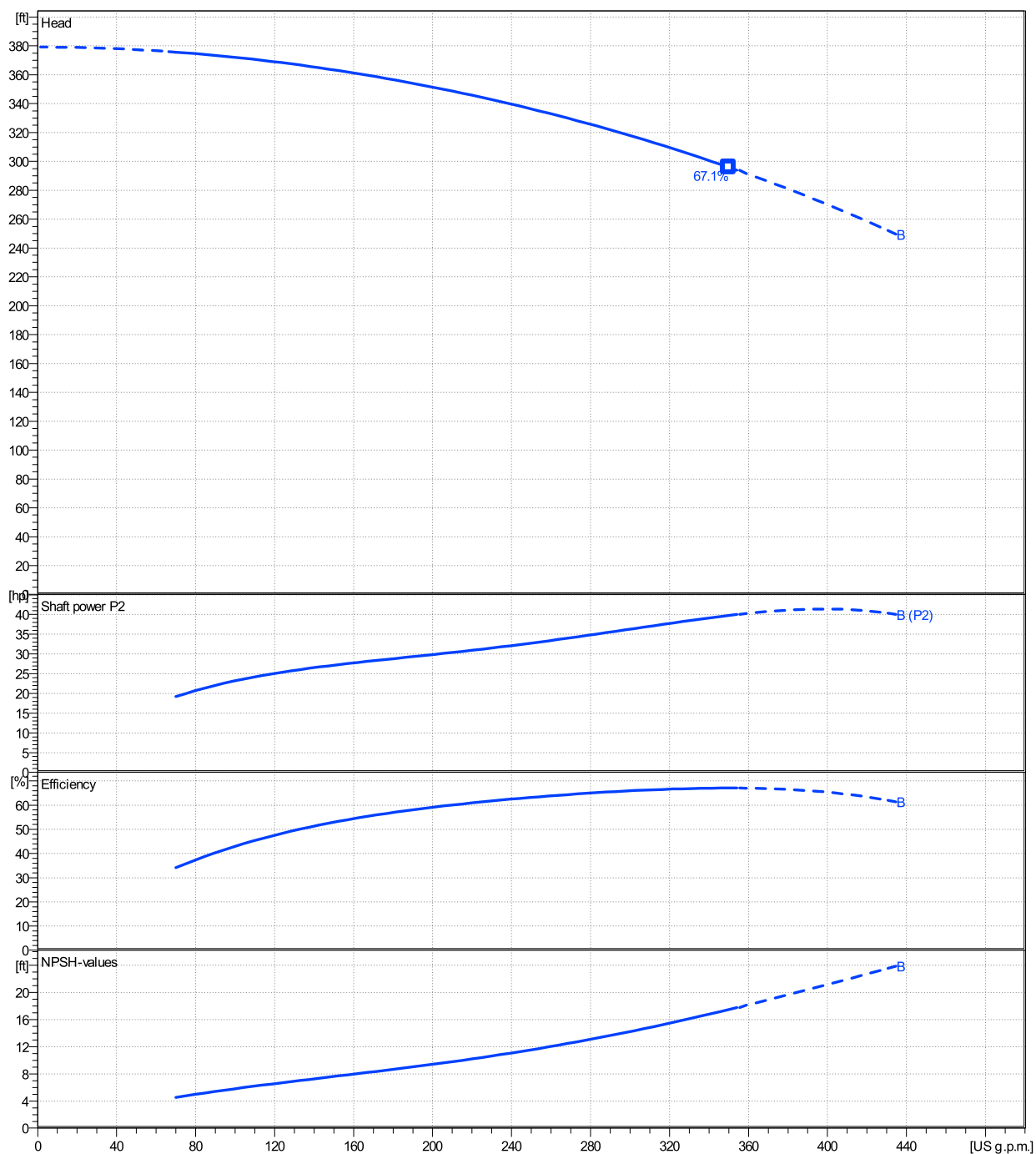
Performance Curve

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	Ø inch	Delivered Flow Application Range			Lift Capability		Shaft Power P2			Frequency		Hz	60
		Min. US g.p.m.	Max. US g.p.m.	η Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed rpm	Nominal flow US g.p.m.		
Is	9.500	70	435	350	379	296		41.4	39.8				3500
Min.	7.687	/	/	265	239	194		/	20.4				0
Max.	9.875	/	/	360	407	314		/	43				0
													0

Power datas referred to:

Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s



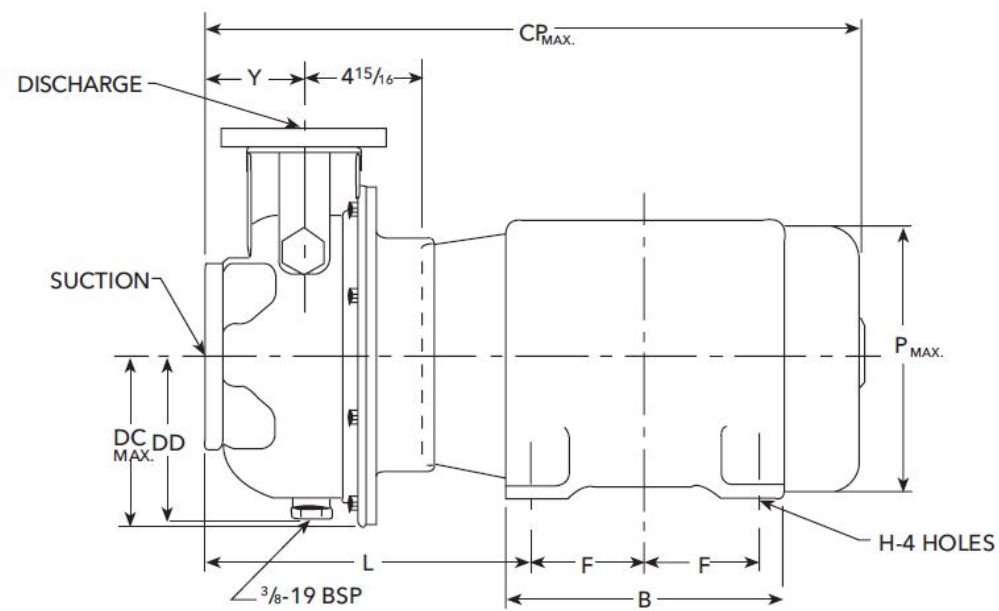
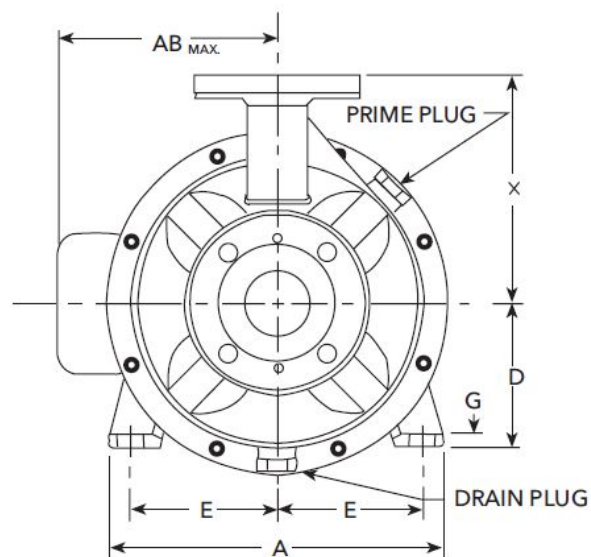
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Dimensions

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Close coupled
Rotation: 12 oClock [STD]
NEMA 3 ph TEPE [STD]Frame 324JM - 40 hp



Dimensions		[inch]	
A	14 ¹ / ₂		
ABmax	15 ¹ / ₄		
B	14		
CPmax	34 ¹³ / ₁₆		
D	8		
DCmax	6 ⁷ / ₈		
DD	6 ⁵ / ₈		
E	6 ¹ / ₄		
F	6		
G	⁵ / ₁₆		
H	¹¹ / ₁₆		
L	13 ⁷ / ₈		
Pmax	17		
X	9		
Y	4		

Connections	
Suction	Discharge port
NPS 2.5	NPS 2
CL 150	CL 150
ASME B16.5 (e-SH)	ASME B16.5 (e-SH)
Weight (+/- 5%)	
Pump	125 lb
Base Plate	
Motor	487 lb
Total weight	On demand lb

Note: Drawing not to be used for construction purposes. Weights subject to change.

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