

02SH10D30T3F2

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 8 13/16
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. 402
16 Max. working pressure psi	139.5		Min- US g.p.m. 70
17 Impeller type	Radial impeller	Head	Nominal ft
18 Head H(Q=0) ft	320		at Qmax ft 213.9
19 Max. shaft power hp	32.6		at Qmin ft 320.2
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 286JM - 30 hp		
45 Rated power	30 hp	Item no.	
46 Nominal speed	3600 rpm	Service factor	1.15
47 Frame size	286JM	Electric voltage	460 V
48 Weight lb	406.0		

Base Plate

49 Name		Remarks
50 Weight lb		

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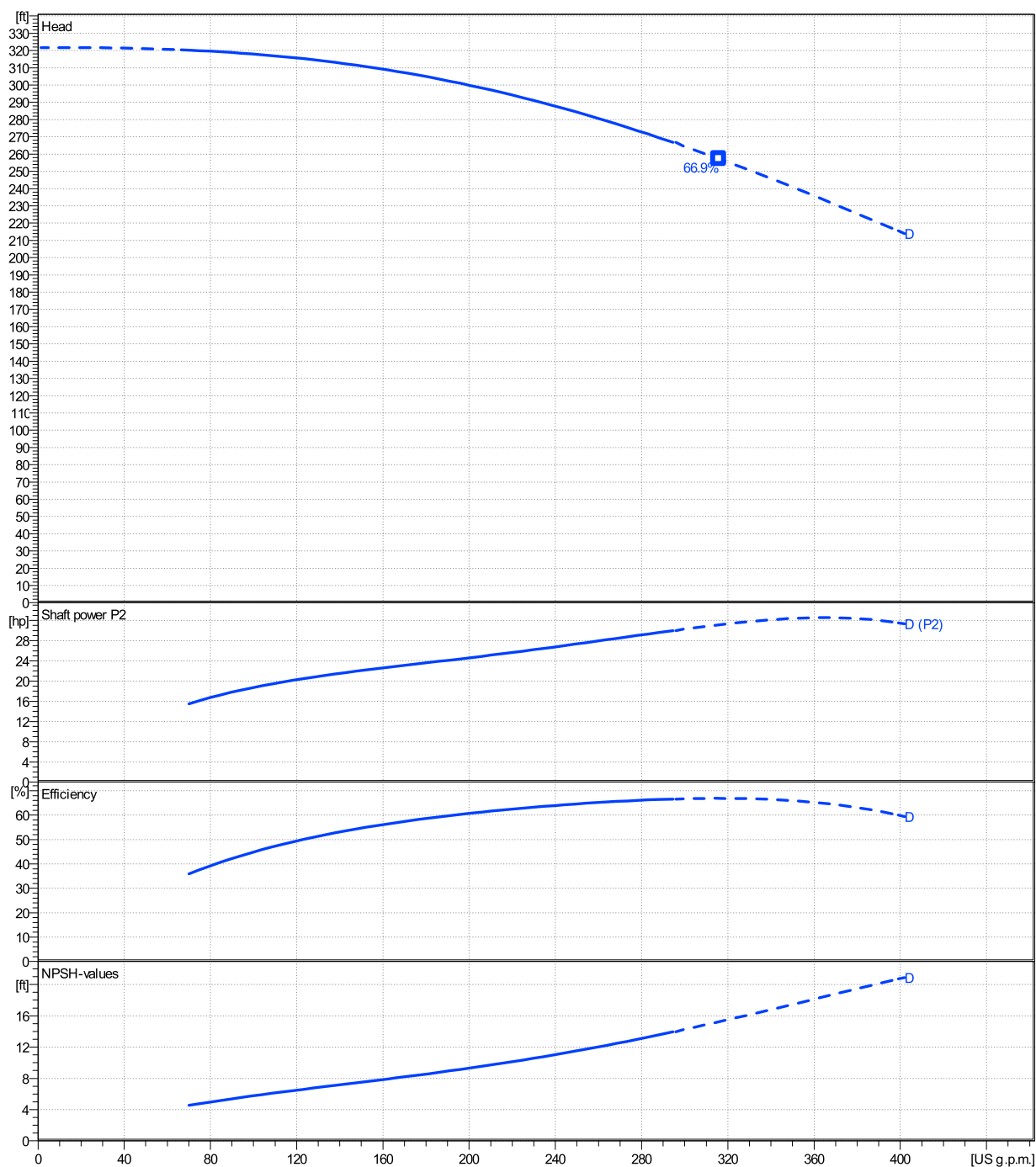
Performance Curve

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	Ø inch	Delivered Flow Application Range			Lift Capability		Shaft Power P2			Frequency		60
		Min. US g.p.m.	Max. US g.p.m.	Max. η US g.p.m.	H(Q=0) ft	Max. η ft	P2(Q=0) hp	Max. hp	Max. η hp	Operating speed rpm	Hz	
Is	8.812	70	295	316	322	257		32.6	31.1	Nominal flow	US g.p.m.	0
Min.	7.687	/	/	265	239	194		/	21.4	Nominal head	ft	0
Max.	9.875	/	/	360	407	314		/	40.5	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

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



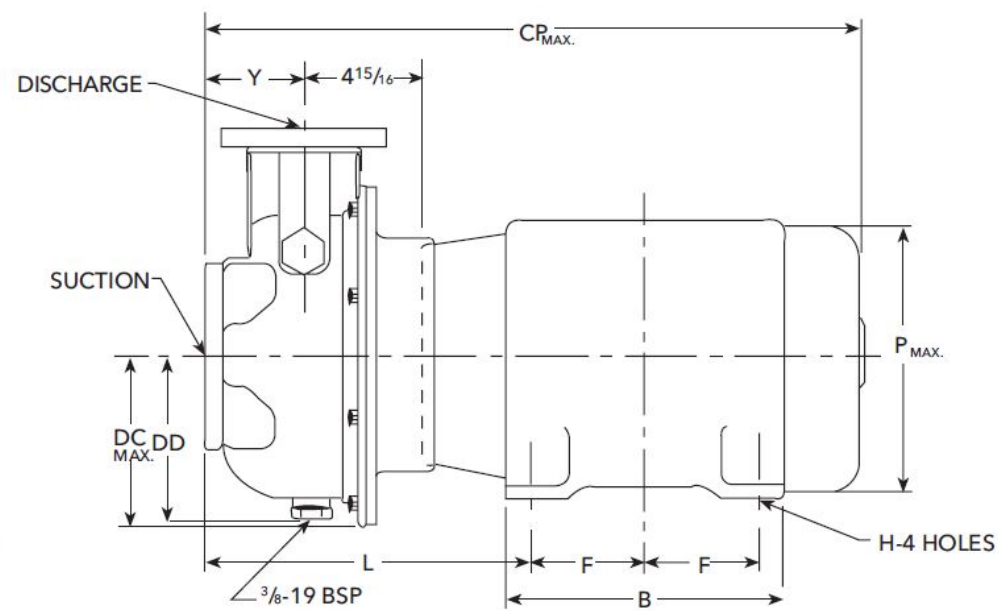
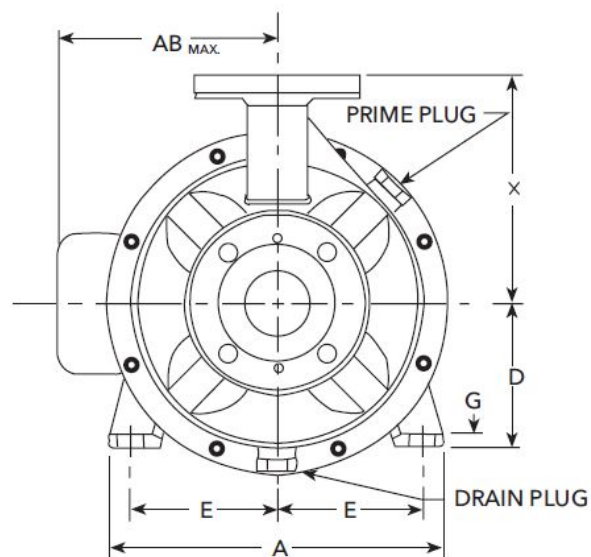
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Dimensions

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Close coupled
Rotation: 12 oClock [STD]
NEMA 3 ph TEPE [STD]Frame 286JM - 30 hp



Dimensions		[inch]	
A	12 ³ / ₄		
ABmax	13 ¹ / ₈		
B	12 ¹³ / ₁₆		
CPmax	32 ¹³ / ₁₆		
D	7		
DCmax	6 ⁷ / ₈		
DD	6 ⁵ / ₈		
E	5 ¹ / ₂		
F	5 ¹ / ₂		
G	1 ¹ / ₄		
H	1 ¹ / ₂		
L	13 ⁷ / ₈		
Pmax	14 ³ / ₄		
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	406 lb
Total weight	On demand lb

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

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