

01SH10B20T3E2

Technical Data	Company Contact Tel. E-mail
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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/ft ³	62.4
5 Static head	ft 0	Kin. viscosity at t A	ft ² /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]		Max.	inch 9 5/8
11 Operating speed	rpm 3500	Impeller Ø	Designed	inch 8 5/8
12 Group	S		Min.	inch 7 3/16
13 Suction	NPS 2 / CL150 / ASME B16.5 (e-SH)		Nominal US g.p.m.	
14 Discharge port	NPS 1 / CL150 / ASME B16.5 (e-SH)	Flow	Max-	US g.p.m. 145
15 Max. casing pressure	psi		Min-	US g.p.m. 40
16 Max. working pressure	psi 123.6	Head	Nominal	ft
17 Impeller type	Radial impeller		at Qmax	ft 183.7
18 Head H(Q=0)	ft 290		at Qmin	ft 275.9
19 Max. shaft power	hp 14.7	Shaft power	hp	
20 Pump weight	lb 86.0	Efficiency	%	
21 Total weight	lb On demand	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 316
29 Deflector	Buna-N		Other metal parts	Stainless steel 316
30 Shaft sleeve	Stainless steel 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	Not available			
38 V-Ring	Buna-N			
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 256JM - 20 hp			
45 Rated power	20 hp	Item no.		
46 Nominal speed	3600 rpm	Service factor	1.15	
47 Frame size	256JM	Electric voltage	460 V	
48 Weight	lb 263.0			

Base Plate		Remarks
49 Name		
50 Weight	lb	

Project	Project ID	Created by	Created on	Last update
			08-30-19	

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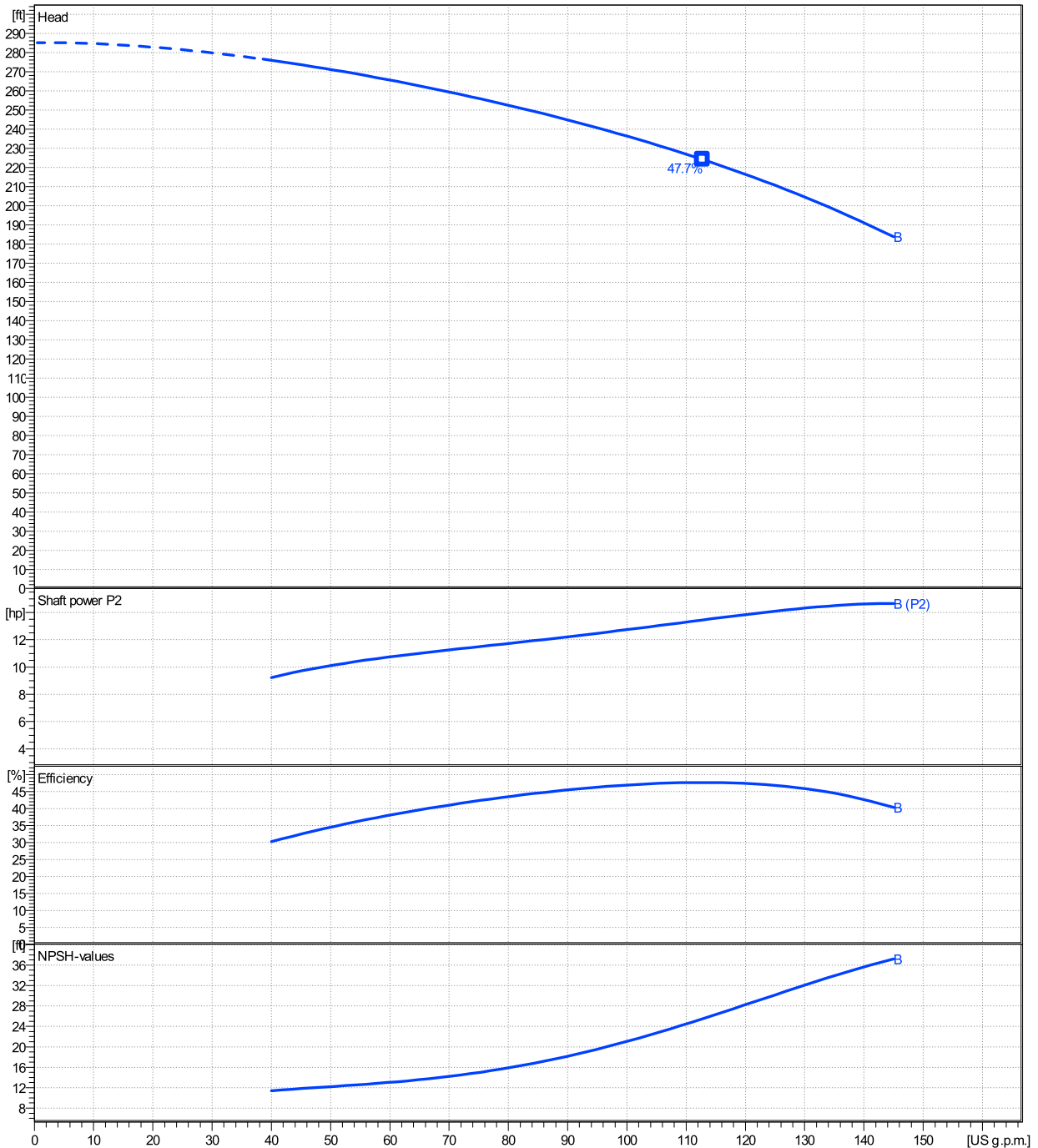
Performance Curve

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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.	Max. η 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	8.656	40	145	113	285	224		14.7	13.4	Nominal head	ft	0	
Min.	7.203	/	/	100	186	137		/	7.23	Inlet pressure	psi	0	
Max.	9.640	/	/	146	373	302		/	19.2	Static head	ft	0	

Power data referred to:

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



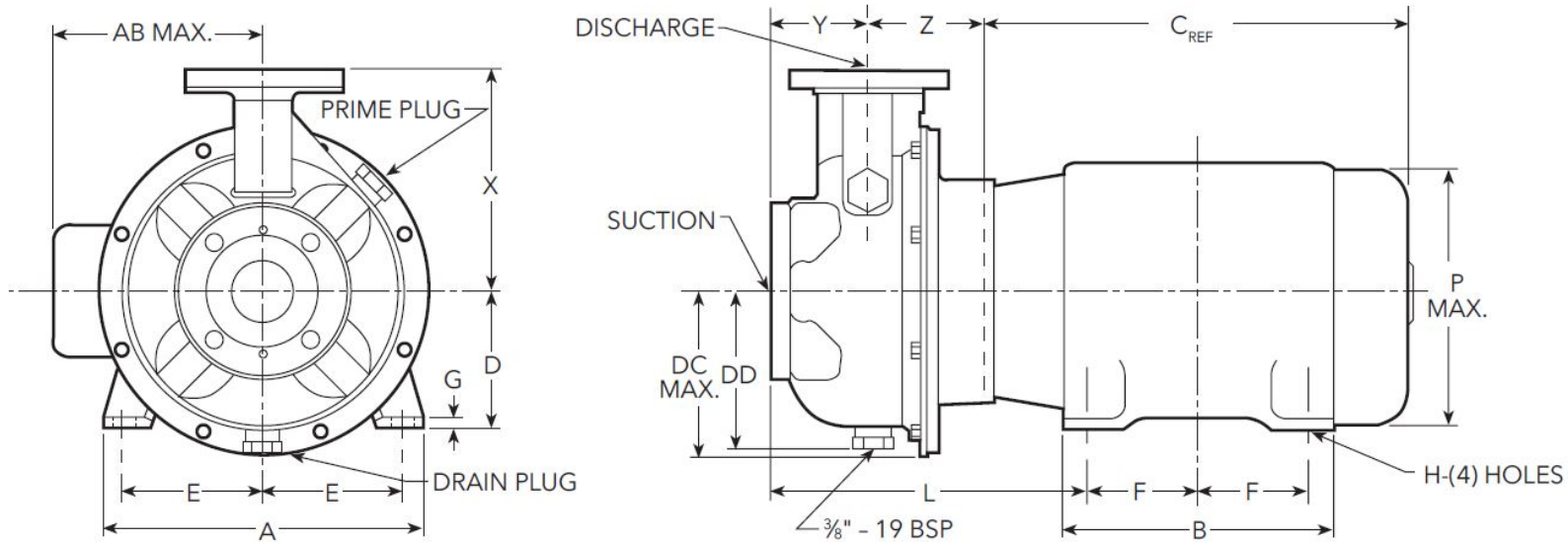
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Dimensions

Company
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Close coupled
Rotation: 12 oClock [STD]
NEMA 3 ph TEPE [STD]Frame 256JM - 20 hp



Dimensions		[inch]	
A	11 ¹ / ₂		
ABmax	12 ³ / ₈		
B	11 ¹ / ₂		
Cref	20 ³ / ₄		
D	6 ¹ / ₄		
DCmax	6 ⁷ / ₈		
DD	6 ⁵ / ₈		
E	5		
F	5		
G	1 ¹ / ₄		
H	1 ¹ / ₂		
L	12 ² / ₈		
Pmax	13 ³ / ₈		
X	8 ⁷ / ₈		
Y	4		
Z	3 ⁷ / ₈		

Connections	
Suction	Discharge port
NPS 2	NPS 1
CL150	CL150
ASME B16.5 (e-SH)	ASME B16.5 (e-SH)
Weight (+/- 5%)	
Pump	86 lb
Base Plate	
Motor	263 lb
Total weight	On demand lb

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

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