GOULDS WATER TECHNOLOGY
a xylem brand

03SH10A20T4F2

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]			Impeller Ø	Max.	inch 10 5/8
11	Operating speed	rpm	1750			Designed	inch 10 5/8
12	Group		M			Min.	inch 9 7/16
13	Suction		NPS 4 / CL150 / ASME B16.5 (e-SH)		Flow	Nominal	US g.p.m.
14	Discharge port		NPS 3 / CL150 / ASME B16.5 (e-SH)			Max-	US g.p.m. 750
15	Max. casing pressure	psi				Min-	US g.p.m. 100
16	Max. working pressure	psi	53.1		Head	Nominal	ft
17	Impeller type		Radial impeller			at Qmax	ft 80.4
18	Head H(Q=0)	ft	120			at Qmin	ft 122.8
19	Max. shaft power	hp	18.9	Shaft power		hp	
20	Pump weight	lb	148.0	Efficiency		%	
21	Total weight	lb	On demand	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Casing	Stainless steel 316L	John Crane	Elastomer Bellows Shaft Seal
24	Impeller	Stainless steel CF8M	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 256JM - 20 hp			
45	Rated power	20 hp	Item no.		
46	Nominal speed	1800 rpm	Service factor	1.15	
47	Frame size	256JM	Electric voltage	460 V	
48	Weight lb	304.0			

Base Plate

49	Name		
50	Weight	lb	

Remarks

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			09-05-19	

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Performance Curve

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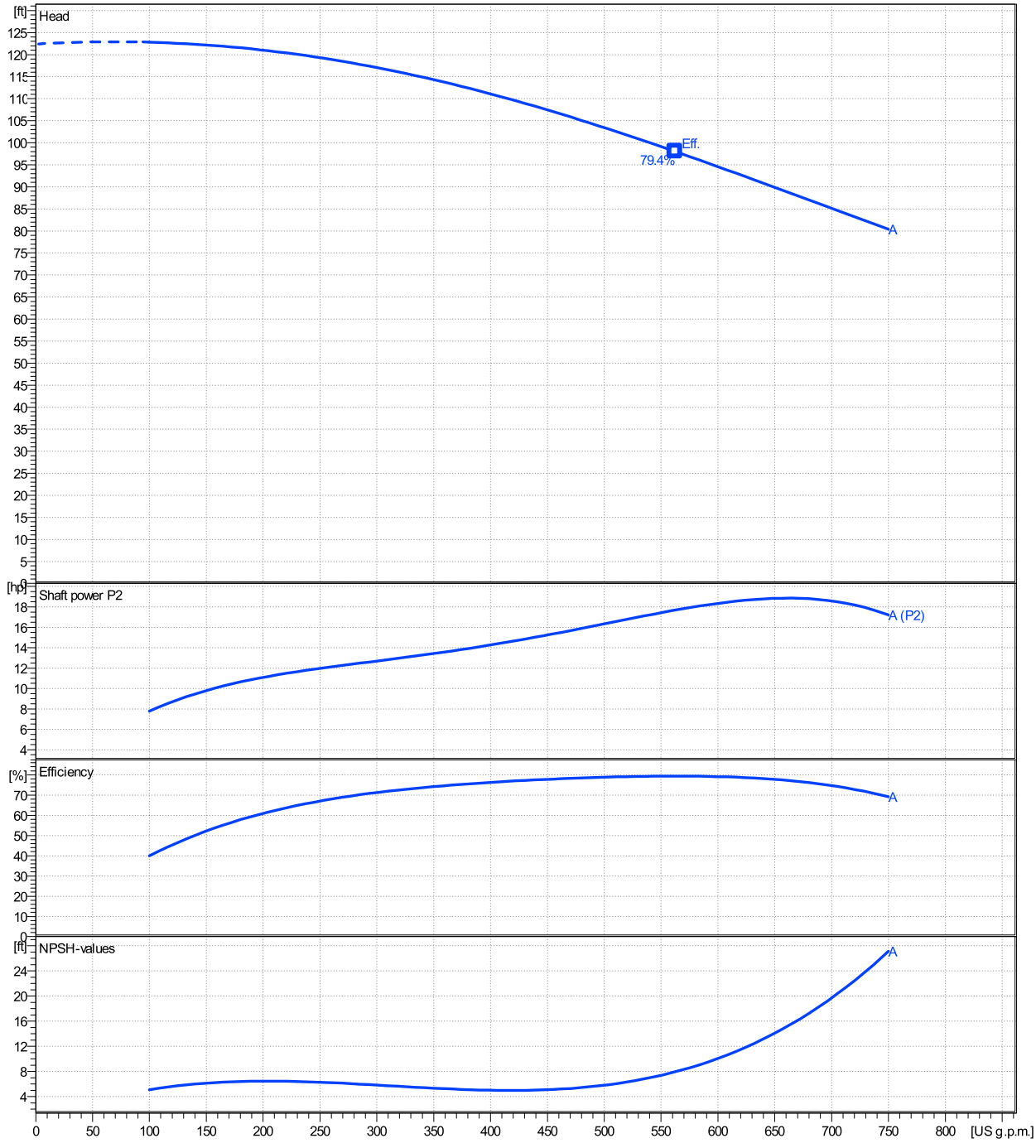
	Ø	Delivered Flow Application Range			Lift Capability		Shaft Power P2					
		Min.	Max.	η Max.	H(Q=0)	η Max.	P2(Q=0)	Max.	η Max.	Frequency	Hz	60
	inch	US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp	Operating speed	rpm	1750
										Nominal flow	US g.p.m.	0
Is	10.625	100	750	562	122	98		18.9	17.7	Nominal head	ft	0
Min.	9.437	/	/	418	92.9	78.5		/	11.9	Inlet pressure	psi	0
Max.	10.625	/	/	562	122	98		/	17.7	Static head	ft	0

Power datas referced to:

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



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Dimensions

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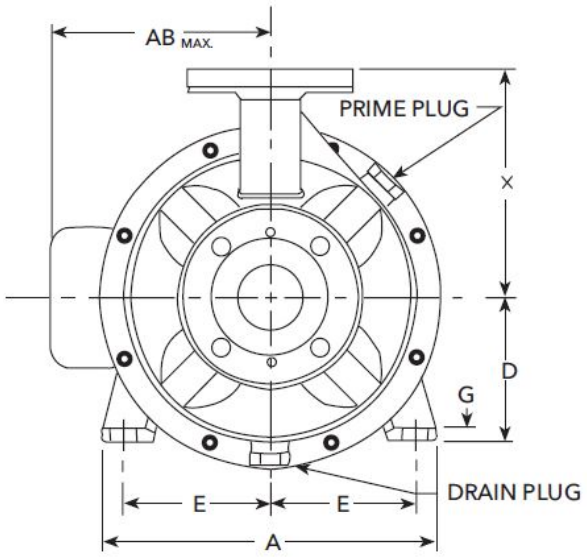
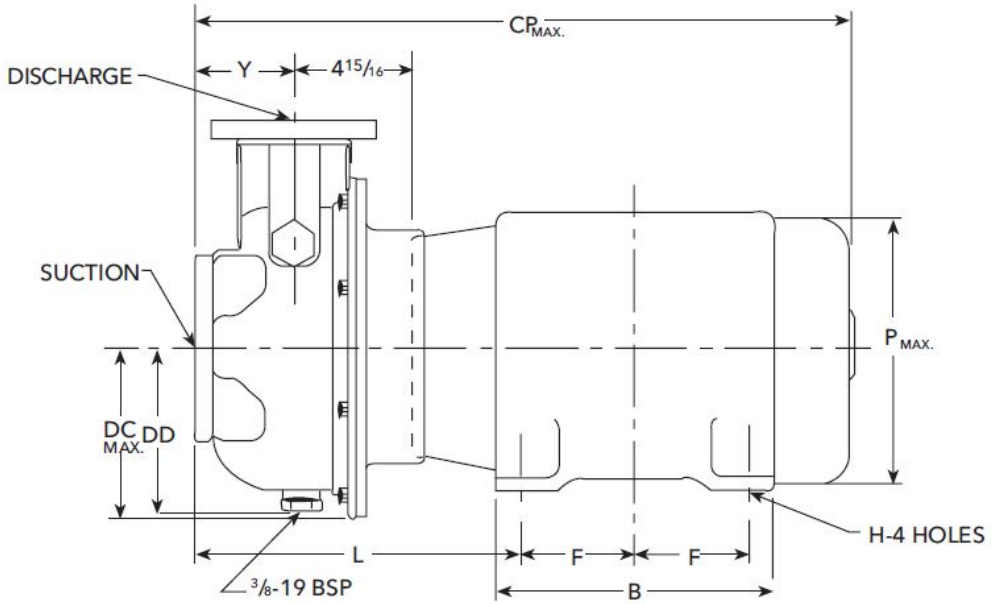
Close coupled
Rotation: 12 oClock [STD]
NEMA 3 ph TEPE [STD]Frame 256JM - 20 hp





Dimensions	[inch]		
A	11 1/2		
ABmax	12 3/8		
B	11 1/2		
CPmax	30 1/2		
D	6 1/4		
DCmax	7 5/8		
DD	7 3/8		
E	5		
F	5		
G	1/4		
H	1/2		
L	14 7/8		
Pmax	13 3/8		
X	11 1/8		
Y	5		

Connections	
Suction	Discharge port
NPS 4	NPS 3
CL150	CL150
ASME B16.5 (e-SH)	ASME B16.5 (e-SH)

Weight	(+/- 5%)
Pump	148 lb
Base Plate	
Motor	304 lb
Total weight	On demand lb

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

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