

## 02SH08C20T3E2

### 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/ft <sup>3</sup> 62.4
5 Static head	ft 0	Kin. viscosity at t A	ft <sup>2</sup> /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 8 1/4
12 Group	S		Designed inch 7 1/2
13 Suction	NPS 2.5 / CL150 / ASME B16.5 (e-SH)		Min. inch 6 3/16
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. 375
16 Max. working pressure	psi 99.7		Min- US g.p.m. 70
17 Impeller type	Radial impeller	Head	Nominal ft
18 Head H(Q=0)	ft 230		at Qmax ft 147.9
19 Max. shaft power	hp 20.4		at Qmin ft 230
20 Pump weight	lb 68.0	Shaft power	hp
21 Total weight	lb On demand	Efficiency	%
		NPSH 3%	ft

#### Materials

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

49 Name		Remarks	
50 Weight	lb		

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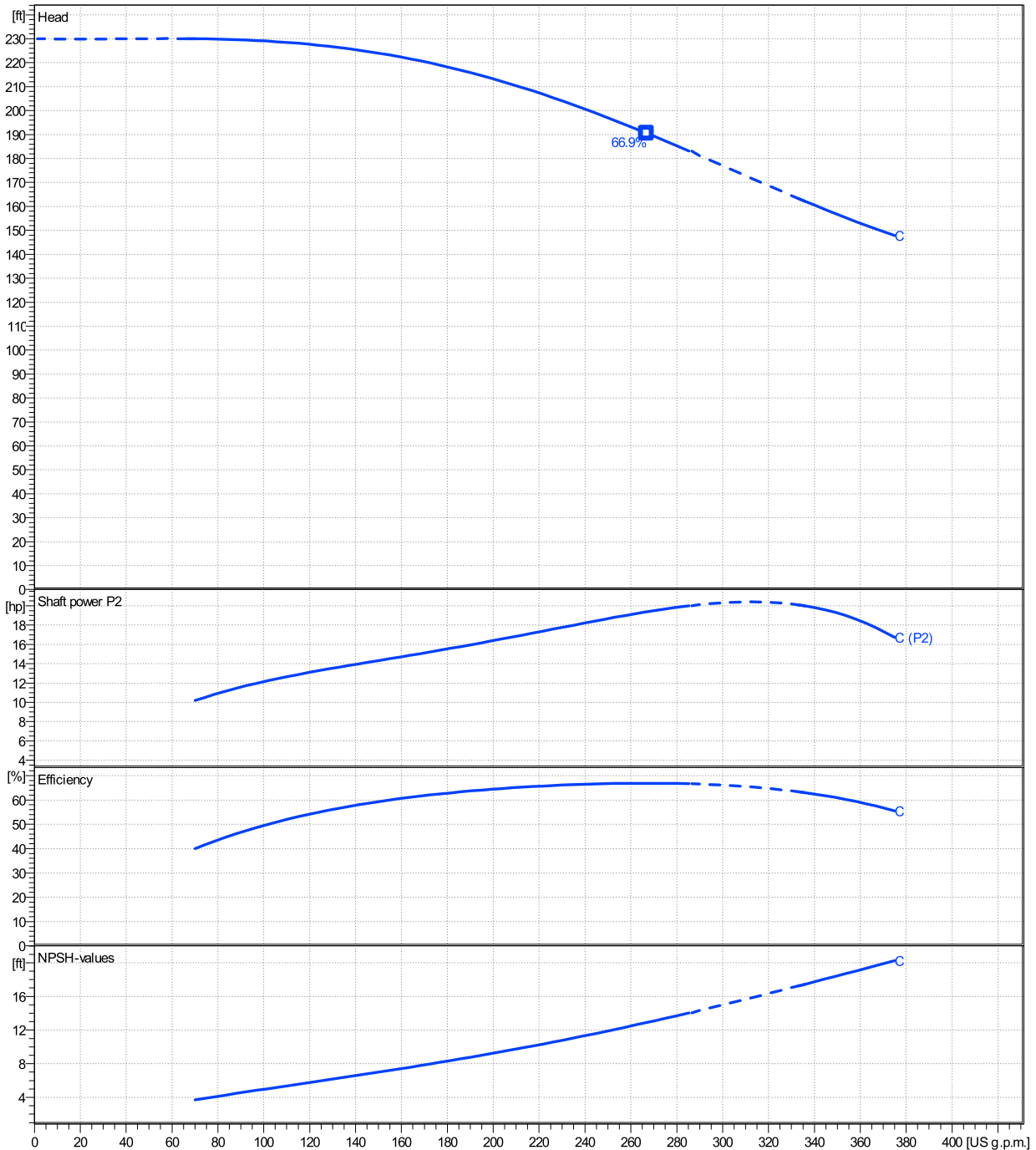
## Performance Curve

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	Ø inch	Delivered Flow Application Range			Lift Capability		Shaft Power P2			Frequency		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	7.500	70	375	267	230	191		20.4	19.4	Nominal head	ft	0	
Min.	6.187	/	/	222	156	135		/	12.7	Inlet pressure	psi	0	
Max.	8.250	/	/	302	275	210		/	22.5	Static head	ft	0	

**Power data referred to:**

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



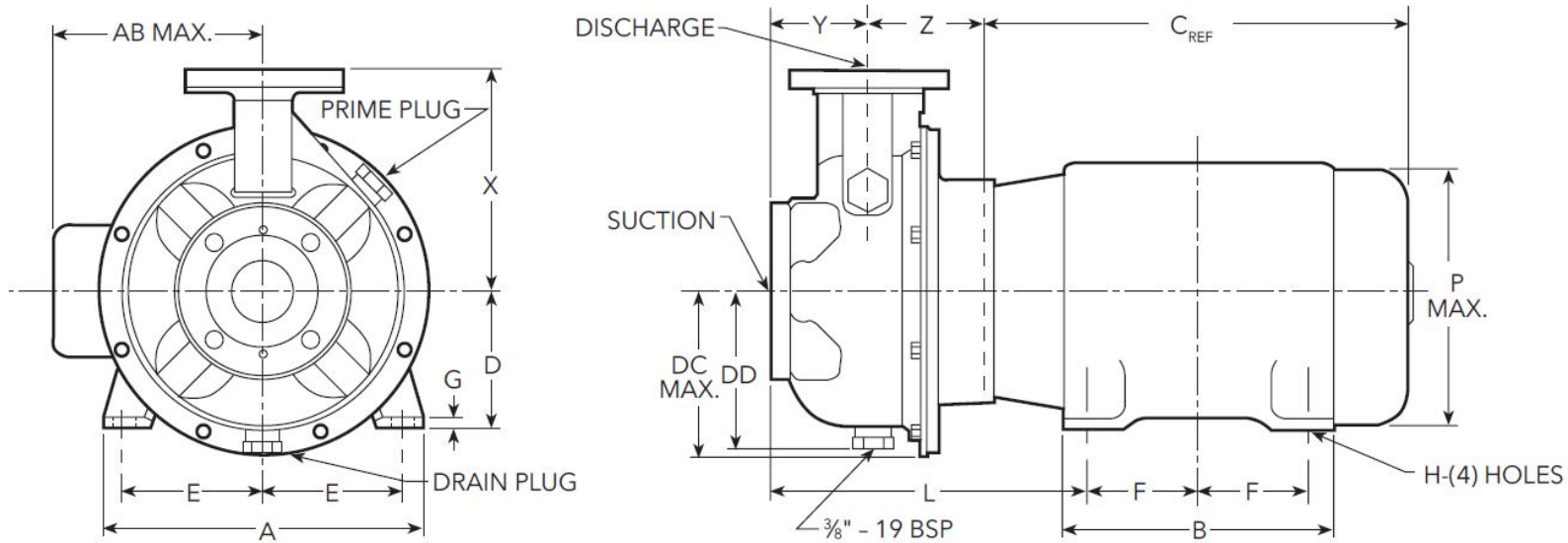
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**Dimensions**

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



Dimensions		[ inch ]	
A	11 <sup>1</sup> / <sub>2</sub>		
ABmax	12 <sup>3</sup> / <sub>8</sub>		
B	11 <sup>1</sup> / <sub>2</sub>		
Cref	20 <sup>3</sup> / <sub>4</sub>		
D	6 <sup>1</sup> / <sub>4</sub>		
DCmax	6		
DD	5 <sup>3</sup> / <sub>4</sub>		
E	5		
F	5		
G	1 <sup>1</sup> / <sub>4</sub>		
H	1 <sup>1</sup> / <sub>2</sub>		
L	12 <sup>1</sup> / <sub>8</sub>		
Pmax	13 <sup>3</sup> / <sub>8</sub>		
X	7 <sup>15</sup> / <sub>16</sub>		
Y	4		
Z	3 <sup>5</sup> / <sub>8</sub>		

Connections	
<b>Suction</b>	<b>Discharge port</b>
NPS 2.5	NPS 2
CL150	CL150
ASME B16.5 (e-SH)	ASME B16.5 (e-SH)
Weight (+/- 5%)	
<b>Pump</b>	68 lb
<b>Base Plate</b>	
<b>Motor</b>	263 lb
<b>Total weight</b>	<b>On demand lb</b>

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

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