



A. C. Schultes of Florida, Inc.
11865 US Highway 41 South
Gibsonton, FL 33534

24 Hour Service
(813) 741-3010
Fax (813) 741-3170

March 3, 2025

Marion County Board of County Commissioners
Attn: Mr. Sean McFarland
11800 SE US Hwy 441
Bellevue, FL 34420

RE: Pump Testing Wells G04, G05, & G06

Dear Mr. McFarland,

In accordance with your request, A.C. Schultes of Florida, Inc. (ACS) is pleased to present the following proposal based on all the information you have provided:

Scope of Services:

Mobilize crew & equipment to jobsite / cut caps off on each well
Install submersible pump to approx. 140' bls / Pump is capable of 2,500 gpm / set up generator (G04)
Install discharge piping with flow meter, valve and sample port / erosion control measures
Pump the well at 2,500 gpm for 2-hrs / Marion County to collect samples after 2-hrs of pumping
**ACS will pump up to a maximum of 3-hrs per well*
**Water discharge shall be approx. 50 feet from the well to ground surface*
Remove the pump, reinstall into G05 and repeat the procedures above
Remove the pump, reinstall into G06 and repeat the procedures above
Clean up, weld steel plates back onto the wells & demobilize

Description	Qty	Unit	Unit Rate	Total
Lifting Crane with (1) Operator	40.00	HRS	\$ 300.00	\$ 12,000.00
Field Service / Repair Technician	90.00	HRS	\$ 135.00	\$ 12,150.00
Field Service / Repair Technician	90.00	HRS	\$ 135.00	\$ 12,150.00
Light Equipment submersible pump, discharge piping & associated equipment	40.00	HRS	\$ 150.00	\$ 6,000.00
Heavy Equipment Generator	40.00	HRS	\$ 300.00	\$ 12,000.00
Heavy Equipment Backhoe	40.00	HRS	\$ 300.00	\$ 12,000.00
Total Estimated Cost:				\$ 66,300.00

Bid Clarifications:

MC to provide access to the site
 All water quality sampling & analysis shall be performed by Marion County
 See attached pump curve representing the ACS test pump
 All other services, except noted above, are excluded
 This quote is valid for 30 days

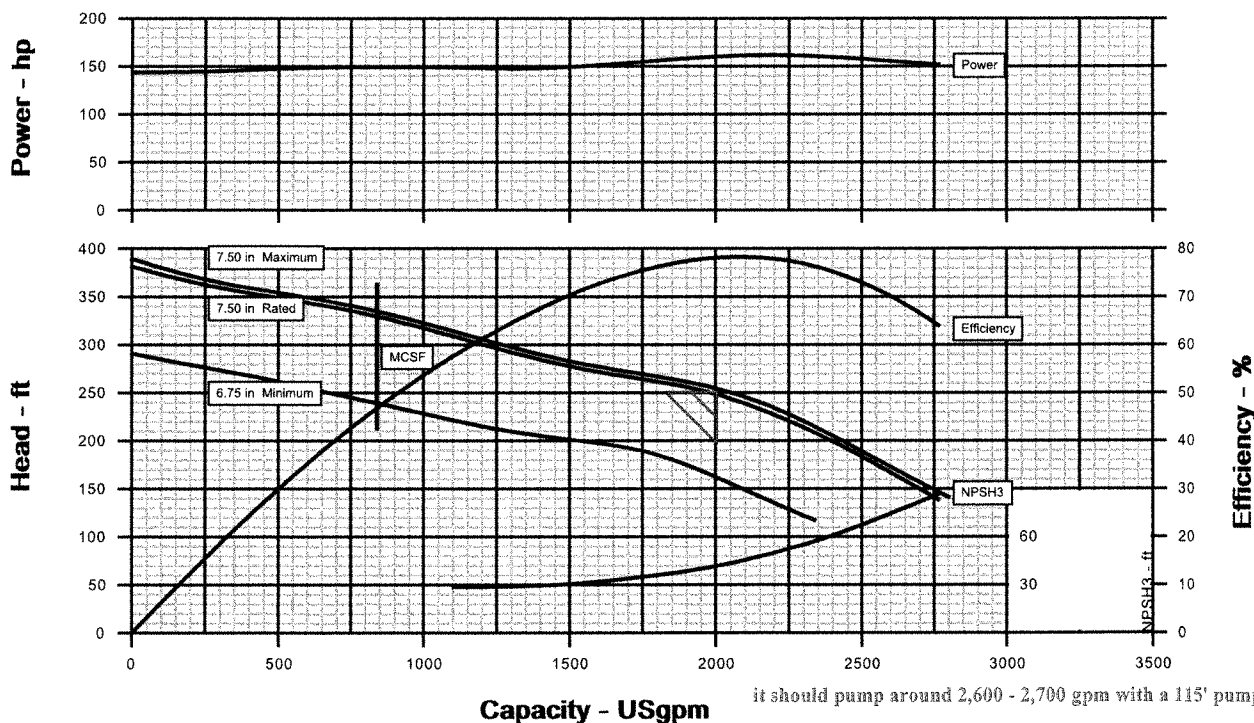
Sincerely,

Gregory Schultes

 Gregory Schultes

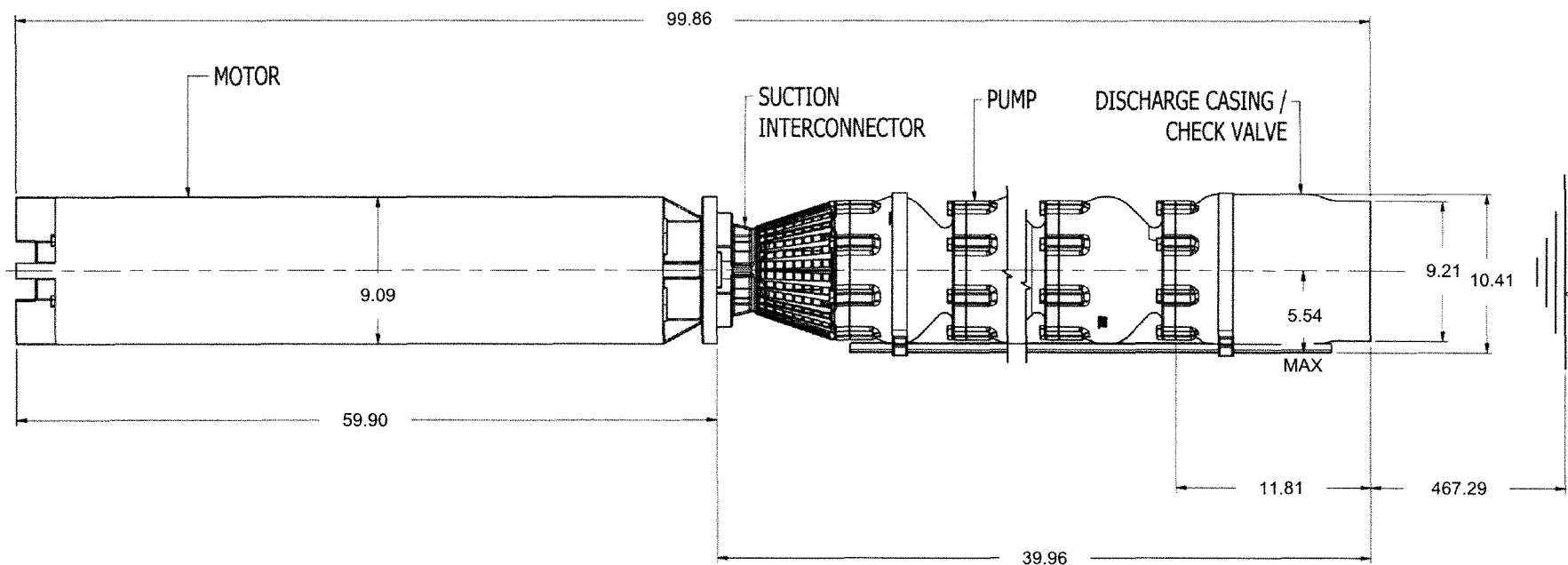
		Performance				
Pump speed	: 3,530 rpm	Impeller diameter	Stages	Rated	Maximum	Minimum
NPSH required (NPSH3)	: 41.5 ft	10EBM	2	7.45 in	7.50 in	6.75 in
Minimum submergence	: 499.18 in					
Hydraulic power (requested / actual)	: 126 / 126 hp	Maximum head at rated diameter		: 382.04 ft		
Pump overall efficiency (CE=1.00)	: 80.2 %	Head rise to shut off		: 52.8 %		
Power (rated/max)	: 161 / 162 hp	Flow at BEP		: 2,088.5 USgpm		
Driver power rating	: 175 hp / 130 kW	Flow as % of BEP		: 95.8 %		
Bowl pressure	: 165.4 psig	Minimum continuous flow		: 844.2 USgpm		
(based on shut off @ cut dia/rated SG)		Ns / Nss (per eye)		: 4,435 / 9,170 (US)		
Maximum allowable	: 765.0 psig	Rated thrust (at Rated flow)		: 2,247.8 lbf		
Bowl hydrotest	: 206.7 psig	Total head ratio (rated / max) / (max / rated)		: 97.7 / 102.3 %		

CURVES ARE APPROXIMATE. PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS: CAPACITY, HEAD, AND EFFICIENCY.



Bowl head of 250 ft corresponds with 250 ft head at adjusted for elevation and friction losses

Customer	: AC Schultes	Pump / Stages	: 10EBM	/ 2
Customer reference	: -	Based on curve no.	: IC-2669	
Item number	: Test Pump H20+	Flowserve reference	: 4683006282	
Service	: -	Date	: November 8, 2023	
Submersible motor data				
Manufacturer	: Flowserve	Motor efficiency at rated flow	: 86.3 %	
Motor type	: MV10-175H-2-60-NSF	Total efficiency (pump & motor)	: 69.3 %	
Driver power rating	: 175 hp	Amps-full load/locked rotor	: 216.70 A / -	
Volts / Phase / Hz	: 460 / 3 / 60 Hz	Maximum permitted starts per hour	: 8	
Motor starting	: Direct on line (DOL)			
Service factor (requested / actual)	: 1.15 / 1.15			
Power cable data				
Motor cable construction	: 2 x 35 mm^2	Starting/rated current ratio at 70% voltage, or star-delta starting	: 529.8 %	
Motor lead length	: 16.00 ft	Starting/rated current ratio at DOL	: 529.8 %	
Drop cable type	: CPE / EPR Round			
Drop cable construction	: -	Starting/rated torque ratio at 70% voltage, or star-delta starting	: -	
Drop cable length	: -	Starting/rated torque ratio at DOL	: -	
Total cable length	: 16.00 ft			
Voltage drop	: -	Breakdown/rated torque ratio at 70% voltage, or star-delta starting	: -	
		Breakdown/rated torque ratio at DOL	: -	
Construction				
General		Bowl Assembly		
Rotation (view from driver)	: Clockwise	Bowl construction	: Flanged - Industrial	
Pump/motor orientation	: Vertical	Bowl lining	: Unlined bowls	
Motor internal coolant	: Water only	Impeller design	: Enclosed	
Maximum dia (incl. leads)	: 9.72 in	Impeller fastening	: Colleted	
Available well diameter	: 12.00 in	Strainer type	: Interconnector / Strainer Body	
Liquid velocity at motor surface	: 13.31 ft/s	Bowl to column adapter	: 8" NPT	
Overall length of pump/driver	: 99.86 in			
Moment of inertia (pump)	: 0.98 lb-ft²	Weights (Approx.)		
Moment of inertia (motor)	: -	Pump (net)	: 100.0 lb	
		Motor (net)	: 549.0 lb	
		Power cable	: 138.0 lb	
Materials / Specification				
Bowl	: 304 Stainless Steel	Motor housing	: Stainless Steel - NSF	
Impeller	: Stainless Steel	Motor bearing housing	: Cast Iron	
Bowl shaft	: 416 Stainless Steel	Motor extended shaft	: Stainless Steel	
Bowl bearing	: Rubber	Motor wetted fasteners	: Stainless Steel	
Bowl wear ring	: GreeneTweed ARHT	Dynamic seal	: Ceramic / Carbon	
Impeller wear ring	: None	Static seals (gasket/Oring)	: Buna	
Bowl fasteners	: Stainless Steel			
Suction strainer	: 304 Stainless Steel			
Pump/driver coupling	: Stainless Steel			
Notes				
-				
-				
-				
-				



Customer	: AC Schultes	Pump size & type	: 10EBM	Drawing number	: -
Item number	: Test Pump H20+	Pump speed / Stages	: 3,530 rpm / 2	Date	: November 8, 2023
Service	: -	Flow / Head	: 2,000.0 USgpm / 250.00 ft	Certified by / Date	: -
Customer PO #	: -	Driver power / Frame	: 175 hp / 130 kW / -	Seal type	: Ceramic / Carbon
Flowserve reference	: 4683006282	Volts / Phase / Hz	: 460 / 3 / 60 Hz	Seal flush plan	: -



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April 23, 2025

Marion County Board of County Commissioners
Attn: Mr. Sean McFarland
11800 SE US Hwy 441
Bellevue, FL 34420

RE: Pump Testing Wells G04, G05, & G06

Dear Mr. McFarland;

In accordance with your request, A.C. Schultes of Florida, Inc. (ACS) is pleased to present the following proposal based on all the information you have provided:

Scope of Services:

Mobilize crew & equipment to jobsite / cut caps off on each well
Install 20" brush and scrub well casing / set up for airlifting
Conduct airlift development to remove debris from well (4 - 6 hours)
**Water discharge shall be to ground surface*
Remove brush from well, move to the next well, repeat brushing and air development
Remove brush from well, move to the last well, repeat brushing and air development
Remove brush, prepare for pump installation and testing
Install submersible pump to approx. 140' bls / Pump is capable of 2,500 gpm / set up generator (G04)
Install discharge piping with flow meter, valve and sample port / erosion control measures
Pump the well at 2,500 gpm for 2-hrs / Marion County to collect samples after 2-hrs of pumping
**ACS will pump up to a maximum of 3-hrs per well*
**Water discharge shall be approx. 50 feet from the well to ground surface*
Remove the pump, reinstall into G05 and repeat the procedures above
Remove the pump, reinstall into G06 and repeat the procedures above
Clean up, weld steel plates back onto the wells & demobilize

Description	Qty	Unit	Unit Rate	Total
Lifting Crane with (1) Operator	90.00	HRS	\$ 300.00	\$ 27,000.00
Field Service / Repair Technician	150.00	HRS	\$ 135.00	\$ 20,250.00
Field Service / Repair Technician	150.00	HRS	\$ 135.00	\$ 20,250.00
Light Equipment submersible pump, discharge piping & associated equipment	40.00	HRS	\$ 150.00	\$ 6,000.00
Heavy Equipment Generator	40.00	HRS	\$ 300.00	\$ 12,000.00
Heavy Equipment Backhoe	40.00	HRS	\$ 300.00	\$ 12,000.00
Total Estimated Cost:				\$ 97,500.00

Bid Clarifications:

MC to provide access to the site
 All water quality sampling & analysis shall be performed by Marion County
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 All other services, except noted above, are excluded
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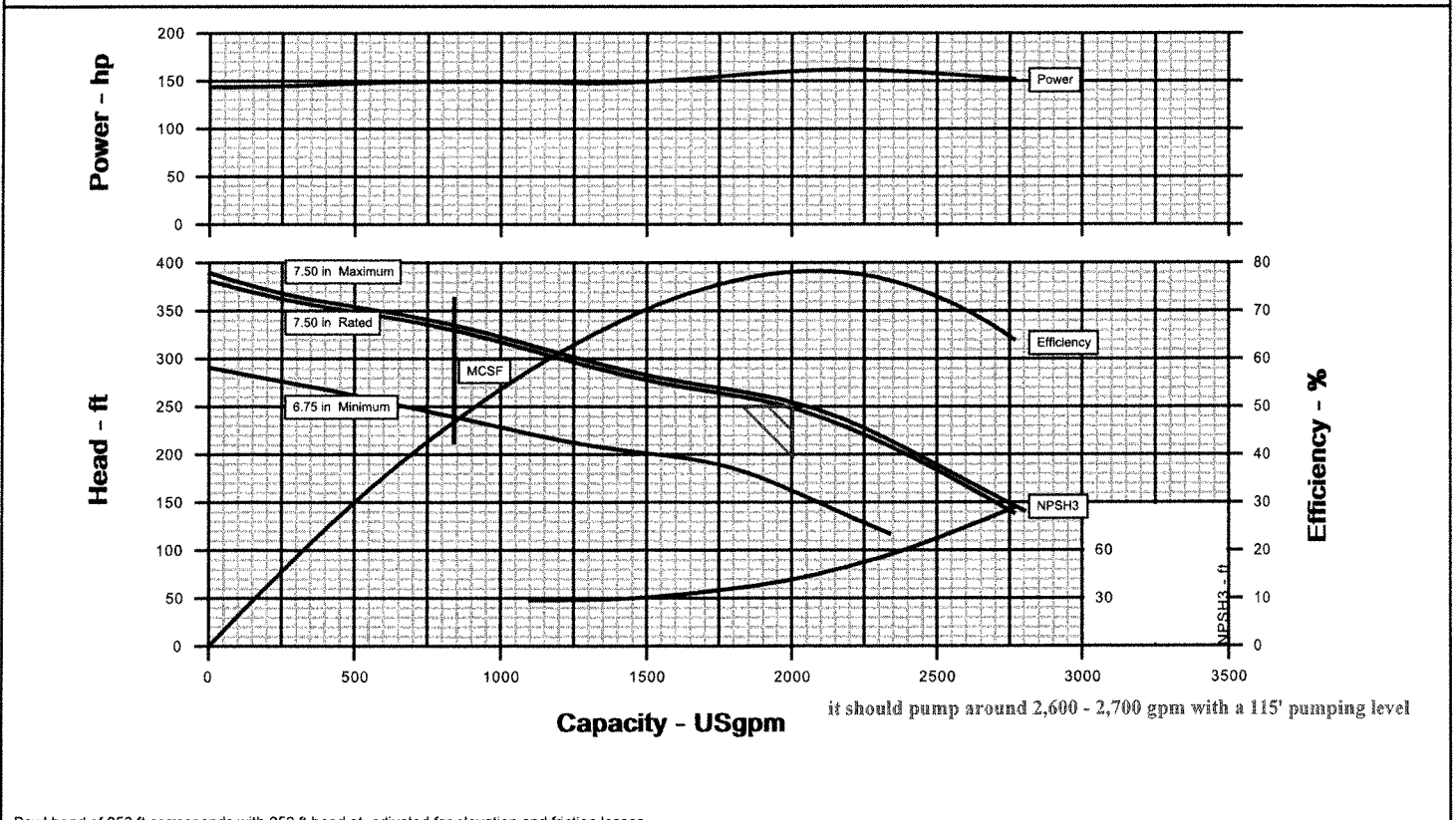
Gregory Schultes

Customer	: AC Schultes	Pump / Stages	: 10EBM / 2
Customer reference	: -	Based on curve no.	: IC-2669
Item number	: Test Pump H20+	Flowserve reference	: 4683006282
Service	: -	Date	: November 8, 2023

Operating Conditions	Materials / Specification
Capacity (requested / actual)	: 2,000.0 / 2,000.0 USgpm
Water capacity (CQ=1.00)	: -
Normal capacity	: -
Total developed head (requested / actual)	: 250.00 / 250.00 ft
Water head (CH=1.00)	: -
NPSH available (NPSHa)	: 50.0 ft
NPSHa less NPSH margin	: -
Maximum suction pressure	: 0.0 psig
Rated suction pressure	: 0.0 psig
Ambient air temperature	: 104 °F
Liquid	Other Requirements
Liquid type	: Other
Liquid description	: -
Temperature / Specific gravity	: 60 °F / 1.000
Viscosity / Vapor pressure	: 1.00 cSt / -
	Hydraulic selection : No specification
	Construction : No specification
	Test tolerance : ANSI/HI 14.6 Grade 1B
	Driver Sizing : Max Power + 3%

Performance	Impeller diameter	Stages	Rated	Maximum	Minimum
Pump speed	: 3,530 rpm	10EBM	2	7.45 in	6.75 in
NPSH required (NPSH3)	: 41.5 ft				
Minimum submergence	: 499.18 in				
Hydraulic power (requested / actual)	: 126 / 126 hp				
Pump overall efficiency (CE=1.00)	: 80.2 %				
Power (rated/max)	: 161 / 162 hp				
Driver power rating	: 175 hp / 130 kW				
Bowl pressure	: 165.4 psig				
(based on shut off @ cut dia/rated SG)					
Maximum allowable	: 765.0 psig				
Bowl hydrotest	: 206.7 psig				
	Maximum head at rated diameter			382.04 ft	
	Head rise to shut off			52.8 %	
	Flow at BEP			2,088.5 USgpm	
	Flow as % of BEP			95.8 %	
	Minimum continuous flow			844.2 USgpm	
	Ns / Nss (per eye)			4,435 / 9,170 (US)	
	Rated thrust (at Rated flow)			2,247.8 lbf	
	Total head ratio (rated / max) / (max / rated)			97.7 / 102.3 %	

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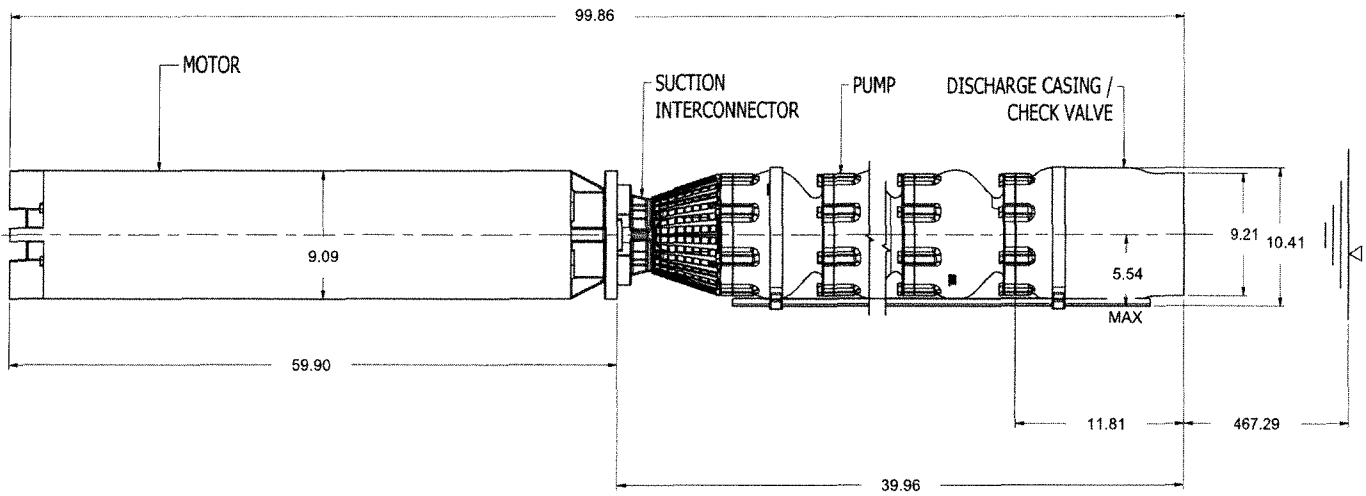
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Manufacturer	: Flowserve	Motor efficiency at rated flow	: 86.3 %
Motor type	: MV10-175H-2-60-NSF	Total efficiency (pump & motor)	: 69.3 %
Driver power rating	: 175 hp	Amps-full load/locked rotor	: 216.70 A / -
Volts / Phase / Hz	: 460 / 3 / 60 Hz	Maximum permitted starts per hour	: 8
Motor starting	: Direct on line (DOL)		
Service factor (requested / actual)	: 1.15 / 1.15		
		Load	Motor efficiency
		1/2	86.0 %
		3/4	87.0 %
		1/1	86.0 %
			Power factor
			82.0
			85.0
			87.0

Power cable data		Starting/rated current ratio at 70% voltage, or star-delta starting	
Motor cable construction	: 2 x 35 mm ²		: 529.8 %
Motor lead length	: 16.00 ft	Starting/rated current ratio at DOL	: 529.8 %
Drop cable type	: CPE / EPR Round		
Drop cable construction	: -	Starting/rated torque ratio at 70% voltage, or star-delta starting	: -
Drop cable length	: -	Starting/rated torque ratio at DOL	: -
Total cable length	: 16.00 ft		
Voltage drop	: -	Breakdown/rated torque ratio at 70% voltage, or star-delta starting	: -
		Breakdown/rated torque ratio at DOL	: -

Construction			
General		Bowl Assembly	
Rotation (view from driver)	: Clockwise	Bowl construction	: Flanged - Industrial
Pump/motor orientation	: Vertical	Bowl lining	: Unlined bowls
Motor internal coolant	: Water only	Impeller design	: Enclosed
Maximum dia (incl. leads)	: 9.72 in	Impeller fastening	: Colleted
Available well diameter	: 12.00 in	Strainer type	: Interconnector / Strainer Body
Liquid velocity at motor surface	: 13.31 ft/s	Bowl to column adapter	: 8" NPT
Overall length of pump/driver	: 99.86 in		
Moment of inertia (pump)	: 0.98 lb-ft ²	Weights (Approx.)	
Moment of inertia (motor)	: -	Pump (net)	: 100.0 lb
		Motor (net)	: 549.0 lb
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Materials / Specification			
Bowl	: 304 Stainless Steel	Motor housing	: Stainless Steel - NSF
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Bowl fasteners	: Stainless Steel		
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Pump/driver coupling	: Stainless Steel		

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Customer PO #	: -	Driver power / Frame	: 175 hp / 130 kW / -	Seal type	: Ceramic / Carbon
Flowserve reference	: 4683006282	Volts / Phase / Hz	: 460 / 3 / 60 Hz	Seal flush plan	: -