

PROJECT:	_____	UNIT TAG:	_____	QUANTITY:	_____
REPRESENTATIVE:	_____	TYPE OF SERVICE:	_____	DATE:	_____
ENGINEER:	_____	SUBMITTED BY:	_____	DATE:	_____
CONTRACTOR:	_____	APPROVED BY:	_____	DATE:	_____
	_____	ORDER NO.:	_____	DATE:	_____

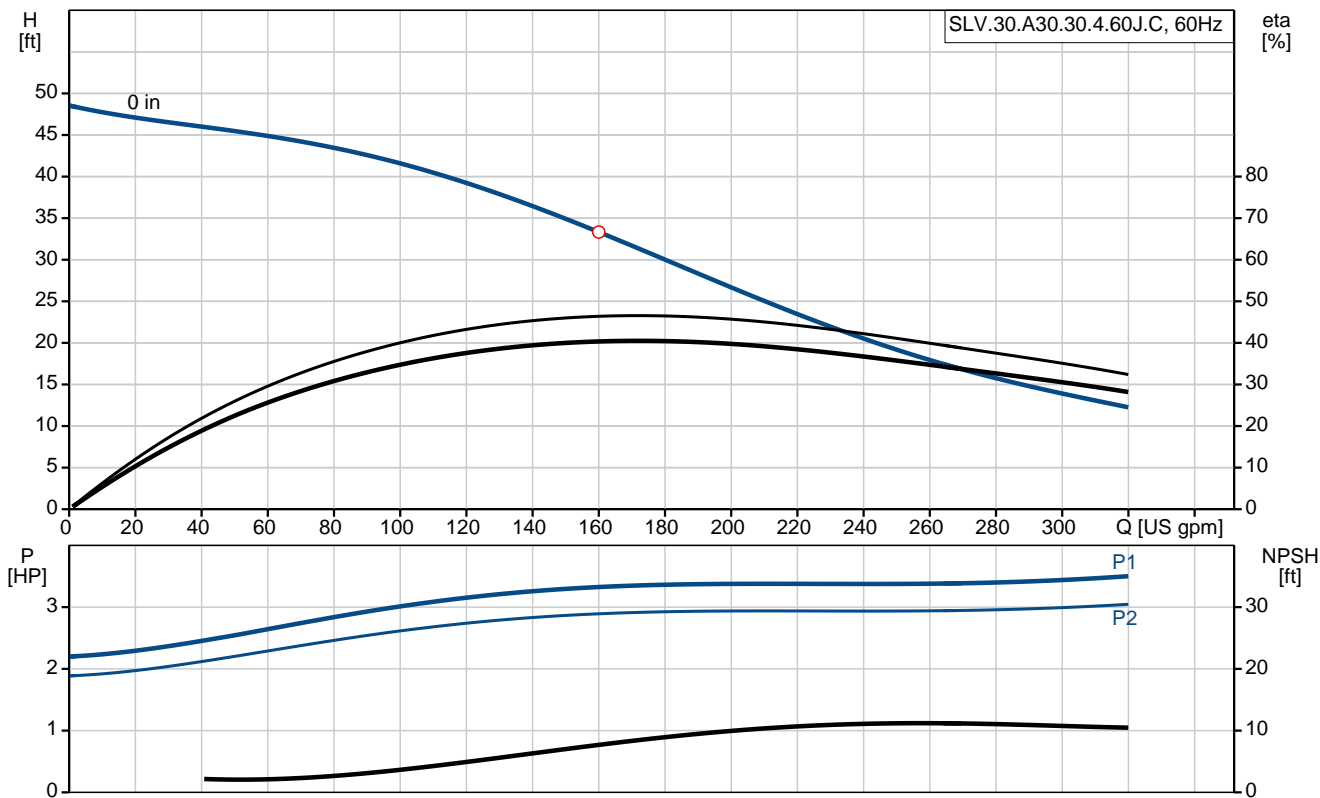
SLV.30.A30.30.4.60J.C

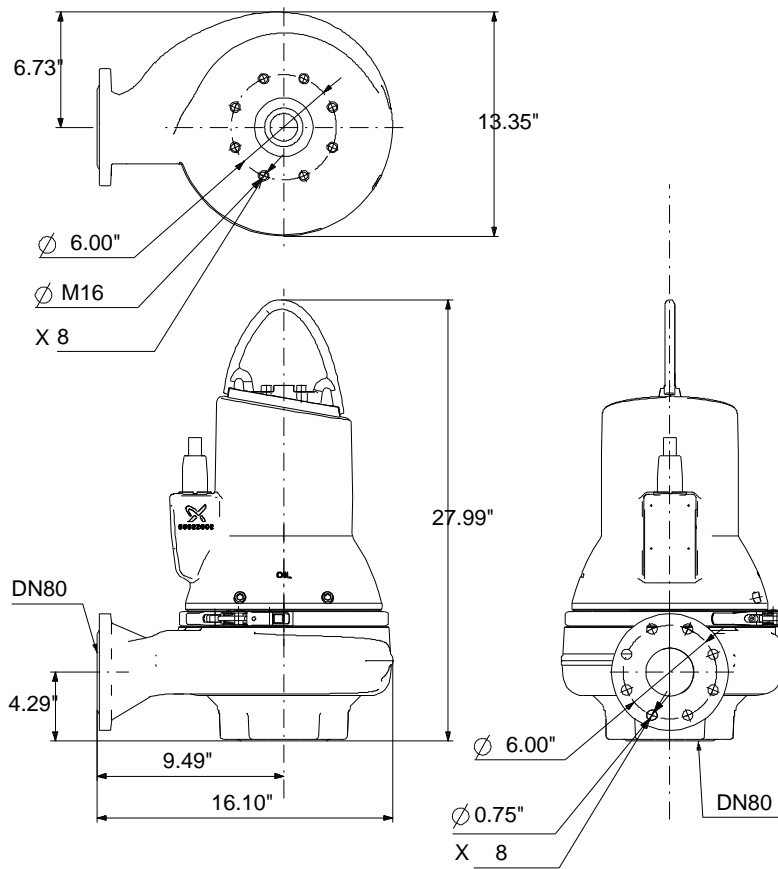
Sewage pumps



Product photo could vary from the actual product

Conditions of Service	Pump Data	Motor Data
Flow: _____	Maximum ambient temperature: 104 °F	Rated voltage: 208-230 V
Head: _____	Approvals: CSA	Main frequency: 60 Hz
Efficiency: _____	Flange standard: ANSI	Number of poles: 4
Liquid: any viscous fluid	Product number: 99034501	Enclosure class: IP68
Temperature: _____		Insulation class: H
NPSH required: ft		Motor protection: THERMAL SWITCH
Viscosity: _____		Motor_efficiency: 87.0 %
Specific Gravity: 1.000		





160x160

Materials:

Pump housing: EN-GJL-250

Impeller: EN-GJL-250

Motor: EN-GJL-250

Tender Text



Product photo could vary from the actual product

Product No.: [99034501](#)
SLV.30.A30.30.4.60J.C

Controls:

Moisture sensor: with moisture sensors
Water-in-oil sensor: without water-in-oil sensor

Liquid:

Pumped liquid: any viscous fluid
Maximum liquid temperature: 104 °F
Density: 62.29 lb/ft³

Technical:

Type of impeller: Super Vortex
Maximum particle size: 3 1/8 in
Primary shaft seal: SIC/SIC
Secondary shaft seal: CARBON/CERAMICS
Approvals on nameplate: CSA
Curve tolerance: ANSI/HI11.6:2012 3B2

Materials:

Pump housing: EN-GJL-250
Impeller: EN-GJL-250
Motor: EN-GJL-250

Installation:

Maximum ambient temperature: 104 °F
Flange standard: ANSI
Pump inlet: 80
Pump outlet: 80
Pressure stage: PN 10
Maximum installation depth: 65.62 ft
Frame range: B

Electrical data:

Power input - P1: 2.7 kW
Rated power - P2: 3 HP
Main frequency: 60 Hz
Rated voltage: 3 x 208-230 V
Voltage tolerance: +10/-10 %
Max starts per. hour: 20
Rated current: 9.8-10.6 A



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Date:


2/22/2018

Starting current:	70.3 A
Cos phi - power factor:	0.76
Cos phi - p.f. at 3/4 load:	0.70
Cos phi - p.f. at 1/2 load:	0.59
Rated speed:	1761 rpm
Motor efficiency at full load:	87.0 %
Motor efficiency at 3/4 load:	86.6 %
Motor efficiency at 1/2 load:	84.7 %
Number of poles:	4
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	H
Explosion proof:	no
Length of cable:	49 ft
Cable type:	SEOOW 600V

Others:

Net weight:	224 lb
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Position	Count	Description
	1	<p>SLV.30.A30.30.4.60J.C</p>  <p>Product photo could vary from the actual product</p> <p>Product No.: 99034501</p> <p>Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.</p> <p>The pump is designed for intermittent and continuous operations in submerged installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 3 1/8 in and is suitable for wastewater with a dry matter content of up to 5 %.</p> <p>A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a ANSI flange.</p> <p>Further product details</p> <p>Typical application is transfer of liquid, such as:</p> <ul style="list-style-type: none"> - large quantities of drainage and surface water - domestic wastewater with discharge from toilets - wastewater from commercial buildings without discharge from toilets - sludge-containing industrial wastewater. <p>The pump is ideal for pumping of the above liquids from for instance:</p> <ul style="list-style-type: none"> - municipal network pumping stations - public buildings - blocks of flats - factories/industry. <p>The pump is suitable for both temporary and permanent installation either as free-standing on ring stand or on an auto-coupling system.</p> <p>Pump</p> <p>The pump housing, motor top and impeller are made of cast iron (EN-GJL-250).</p> <p>The SuperVortex impeller is a symmetrical multivane winglet impeller. The design ensures a flow entirely outside the impeller providing limited contact between the impeller and the pumped liquid. This ensures that long fibres, rags and more passes freely through the pump without getting caught and without causing clogging or jamming.</p>  <p>The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.</p>

Position	Count	Description																																				
		<p>The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.</p> <ul style="list-style-type: none">- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)- Secondary seal: Carbon/Ceramics <p>The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.</p> <div></div> <p>The pump is approved according to CSA.</p> <p>Motor</p> <p>The motor is a watertight, totally encapsulated motor supplied with a 49 ft power cable. The stainless steel plug is fastened with a union nut. This nut and the O-rings provide sealing against ingress of the liquid.</p> <p>The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.</p> <p>A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.</p> <p>The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.</p> <p>The pump is equipped with the following sensor(s):</p> <ul style="list-style-type: none">- A digital moisture switch that is fitted in the motor chamber monitors whether water enters the motor chamber. If moisture is detected in the motor chamber, the switch will trip and send a warning to the sensor module. <p>The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.</p> <p>Controls:</p> <table><tr><td>Moisture sensor:</td><td>with moisture sensors</td></tr><tr><td>Water-in-oil sensor:</td><td>without water-in-oil sensor</td></tr></table> <p>Liquid:</p> <table><tr><td>Pumped liquid:</td><td>any viscous fluid</td></tr><tr><td>Maximum liquid temperature:</td><td>104 °F</td></tr><tr><td>Density:</td><td>62.29 lb/ft³</td></tr></table> <p>Technical:</p> <table><tr><td>Type of impeller:</td><td>Super Vortex</td></tr><tr><td>Maximum particle size:</td><td>3 1/8 in</td></tr><tr><td>Primary shaft seal:</td><td>SIC/SIC</td></tr><tr><td>Secondary shaft seal:</td><td>CARBON/CERAMICS</td></tr><tr><td>Approvals on nameplate:</td><td>CSA</td></tr><tr><td>Curve tolerance:</td><td>ANSI/HI11.6:2012 3B2</td></tr></table> <p>Materials:</p> <table><tr><td>Pump housing:</td><td>EN-GJL-250</td></tr><tr><td>Impeller:</td><td>EN-GJL-250</td></tr><tr><td>Motor:</td><td>EN-GJL-250</td></tr></table> <p>Installation:</p> <table><tr><td>Maximum ambient temperature:</td><td>104 °F</td></tr><tr><td>Flange standard:</td><td>ANSI</td></tr><tr><td>Pump inlet:</td><td>80</td></tr><tr><td>Pump outlet:</td><td>80</td></tr></table>	Moisture sensor:	with moisture sensors	Water-in-oil sensor:	without water-in-oil sensor	Pumped liquid:	any viscous fluid	Maximum liquid temperature:	104 °F	Density:	62.29 lb/ft³	Type of impeller:	Super Vortex	Maximum particle size:	3 1/8 in	Primary shaft seal:	SIC/SIC	Secondary shaft seal:	CARBON/CERAMICS	Approvals on nameplate:	CSA	Curve tolerance:	ANSI/HI11.6:2012 3B2	Pump housing:	EN-GJL-250	Impeller:	EN-GJL-250	Motor:	EN-GJL-250	Maximum ambient temperature:	104 °F	Flange standard:	ANSI	Pump inlet:	80	Pump outlet:	80
Moisture sensor:	with moisture sensors																																					
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Company name:

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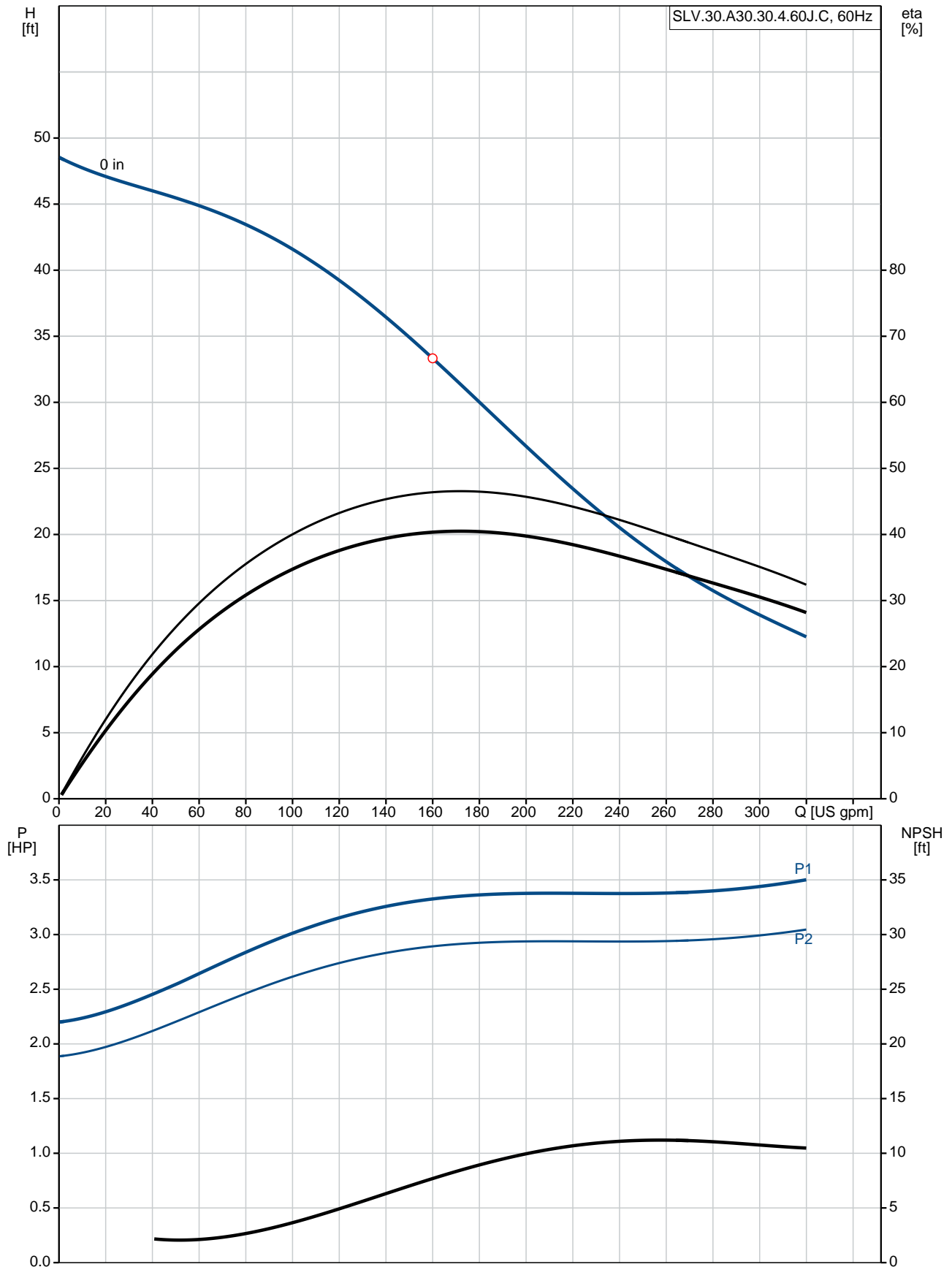
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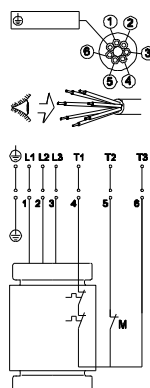
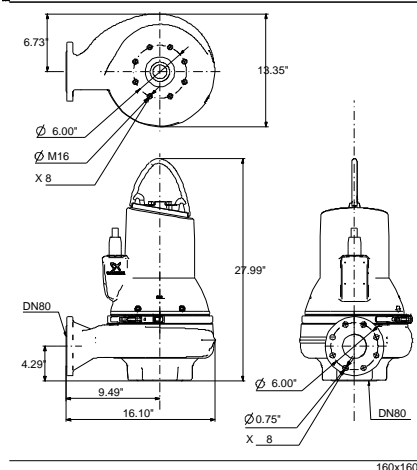
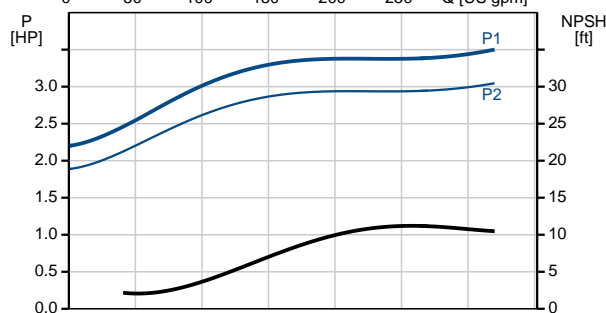
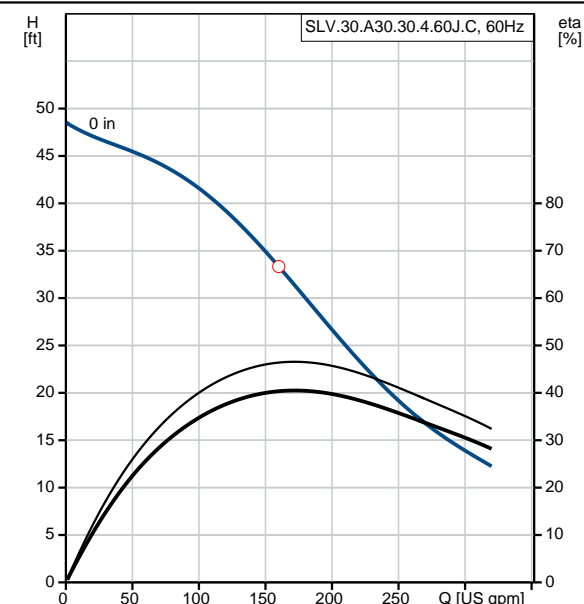
2/22/2018

Position	Count	Description
		Pressure stage: PN 10 Maximum installation depth: 65.62 ft Frame range: B Electrical data: Power input - P1: 2.7 kW Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230 V Voltage tolerance: +10/-10 % Max starts per. hour: 20 Rated current: 9.8-10.6 A Starting current: 70.3 A Cos phi - power factor: 0.76 Cos phi - p.f. at 3/4 load: 0.70 Cos phi - p.f. at 1/2 load: 0.59 Rated speed: 1761 rpm Motor efficiency at full load: 87.0 % Motor efficiency at 3/4 load: 86.6 % Motor efficiency at 1/2 load: 84.7 % Number of poles: 4 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): H Explosion proof: no Length of cable: 49 ft Cable type: SEOOW 600V Others: Net weight: 224 lb

99034501 SLV.30.A30.30.4.60J.C 60 Hz



Description	Value
General information:	
Product name:	SLV.30.A30.30.4.60J.C
Product No.:	99034501
EAN:	5712605499466
Technical:	
Max flow:	317 US gpm
Head max:	47.25 ft
Type of impeller:	Super Vortex
Maximum particle size:	3 1/8 in
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Approvals on nameplate:	CSA
Curve tolerance:	ANSI/HI11.6:2012 3B2
Cooling jacket:	without cooling jacket
Materials:	
Pump housing:	EN-GJL-250
Impeller:	EN-GJL-250
Motor:	EN-GJL-250
Installation:	
Maximum ambient temperature:	104 °F
Flange standard:	ANSI
Pump inlet:	80
Pump outlet:	80
Pressure stage:	PN 10
Maximum installation depth:	65.62 ft
Inst dry/wet:	SUBMERGED
Installation:	Vertical
Frame range:	B
Liquid:	
Pumped liquid:	any viscous fluid
Maximum liquid temperature:	104 °F
Density:	62.29 lb/ft ³
Electrical data:	
Power input - P1:	2.7 kW
Rated power - P2:	3 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230 V
Voltage tolerance:	+10/-10 %
Max starts per. hour:	20
Rated current:	9.8-10.6 A
Starting current:	70.3 A
Cos phi - power factor:	0.76
Cos phi - p.f. at 3/4 load:	0.70
Cos phi - p.f. at 1/2 load:	0.59
Rated speed:	1761 rpm
Motor efficiency at full load:	87.0 %
Motor efficiency at 3/4 load:	86.6 %
Motor efficiency at 1/2 load:	84.7 %
Number of poles:	4
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	H
Explosion proof:	no
Motor protection:	THERMAL SWITCH





Company name:

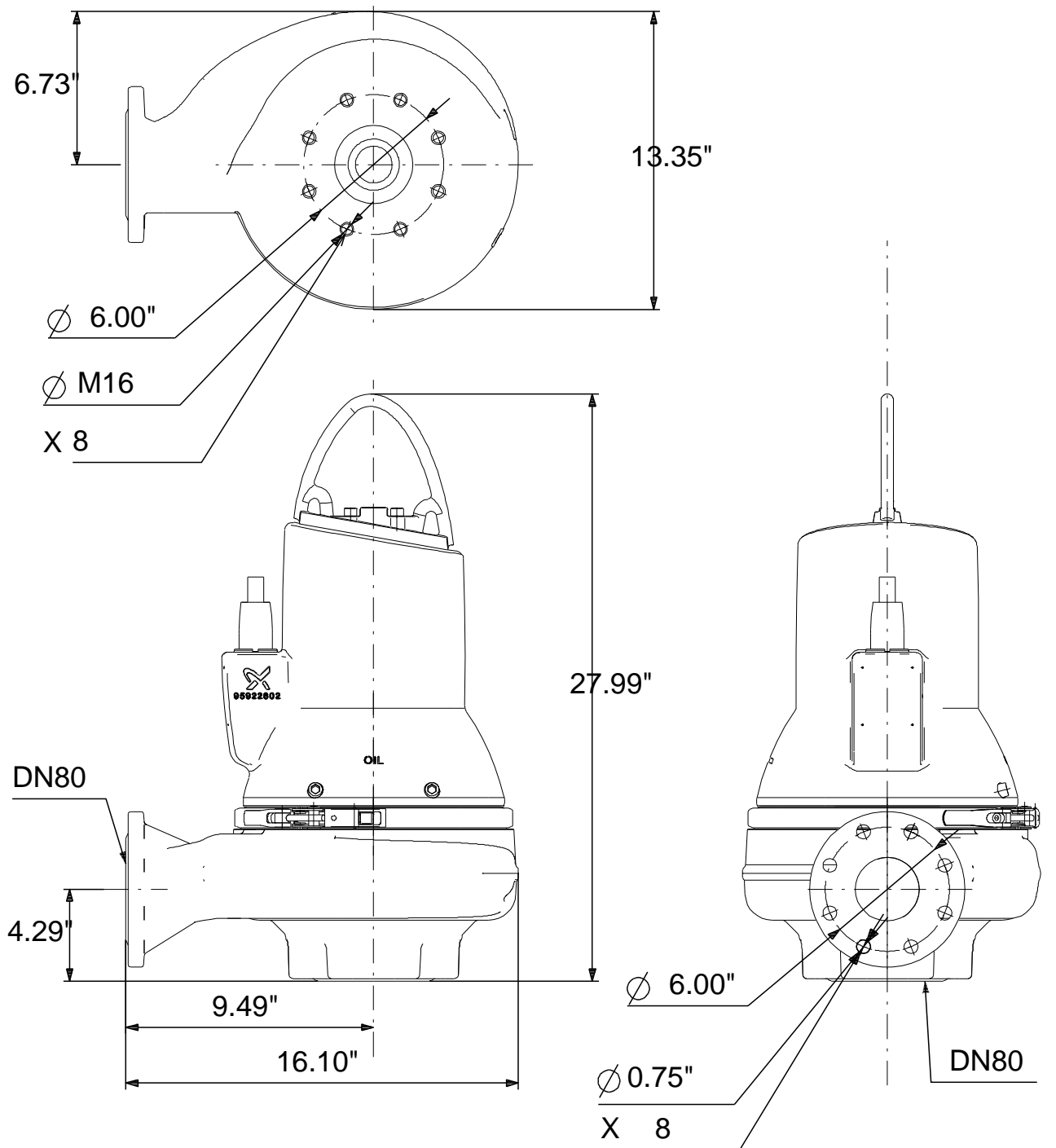
Created by:

Phone:

Date: 2/22/2018

Description	Value
Length of cable:	49 ft
Cable type:	SEOOW 600V
Controls:	
Additional I/O:	N
Moisture sensor:	with moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Others:	
Net weight:	224 lb

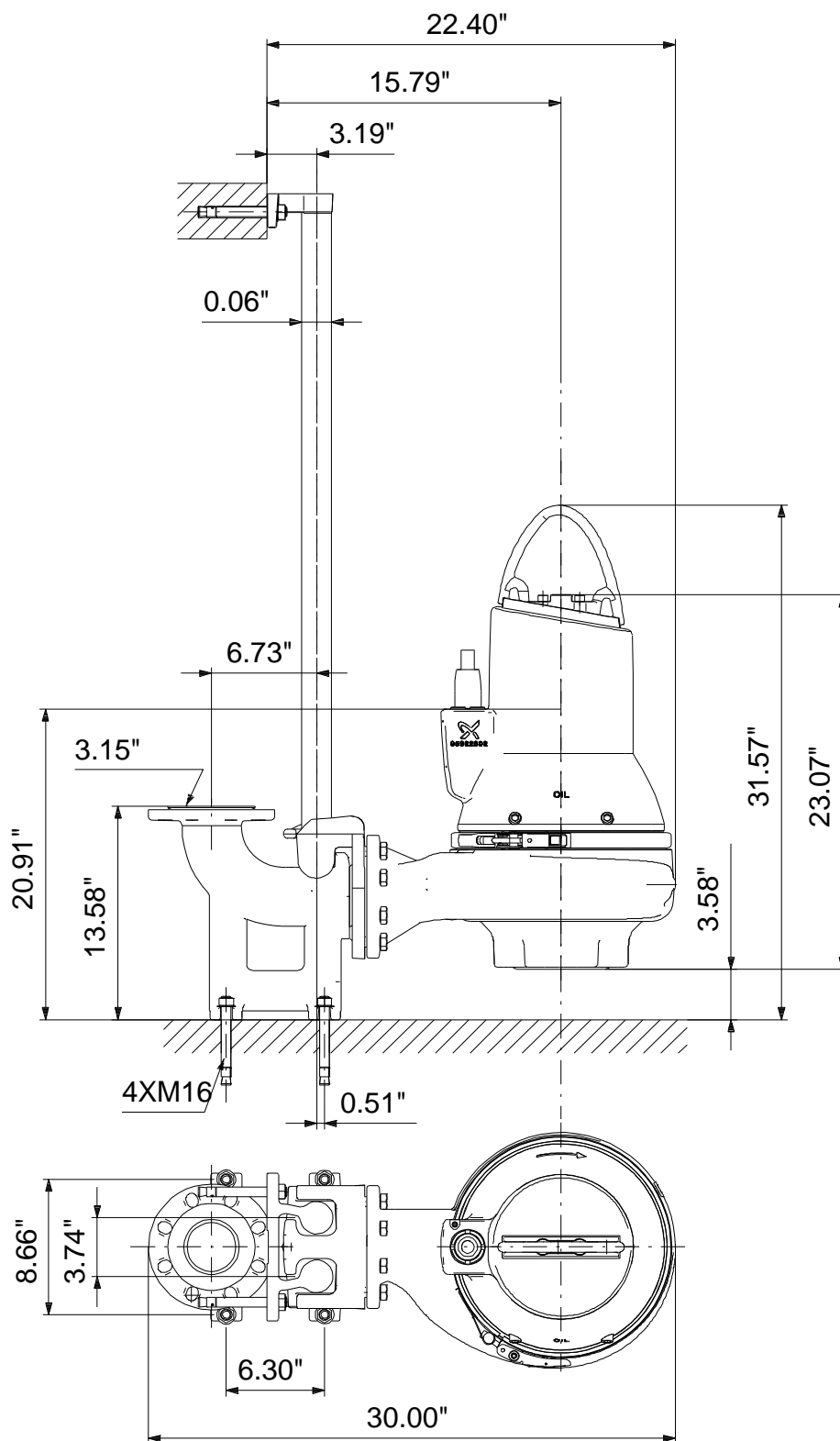
99034501 SLV.30.A30.30.4.60J.C 60 Hz



160x160

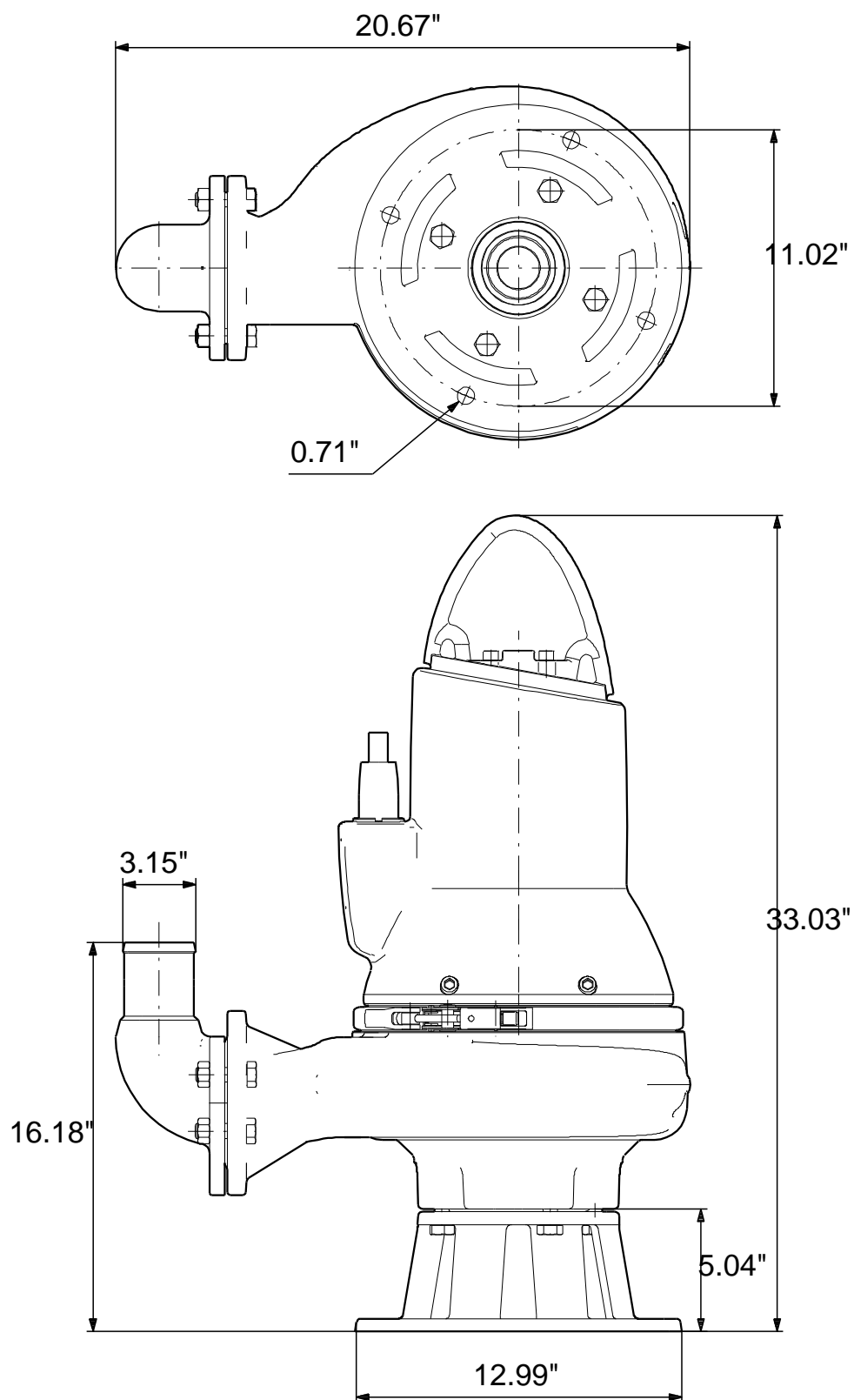
Note! All units are in [mm] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.

99034501 SLV.30.A30.30.4.60J.C 60 Hz



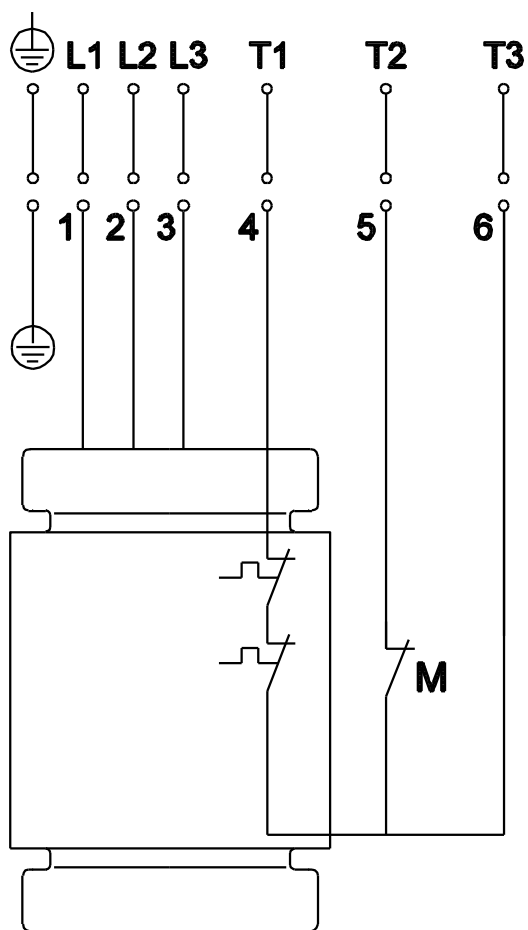
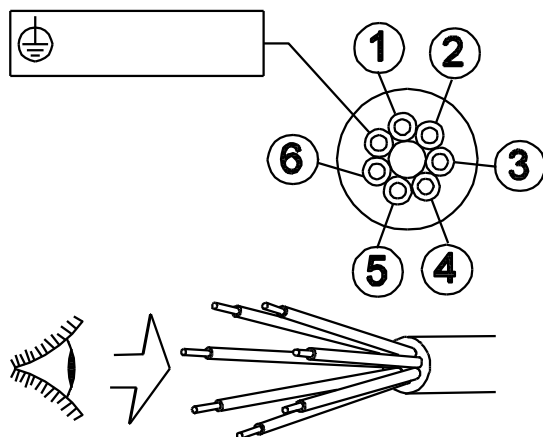
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99034501 SLV.30.A30.30.4.60J.C 60 Hz



Note! All units are in [mm] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.

99034501 SLV.30.A30.30.4.60J.C 60 Hz



All units are [mm] unless otherwise presented.



Company name:

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2/22/2018

Order Data:

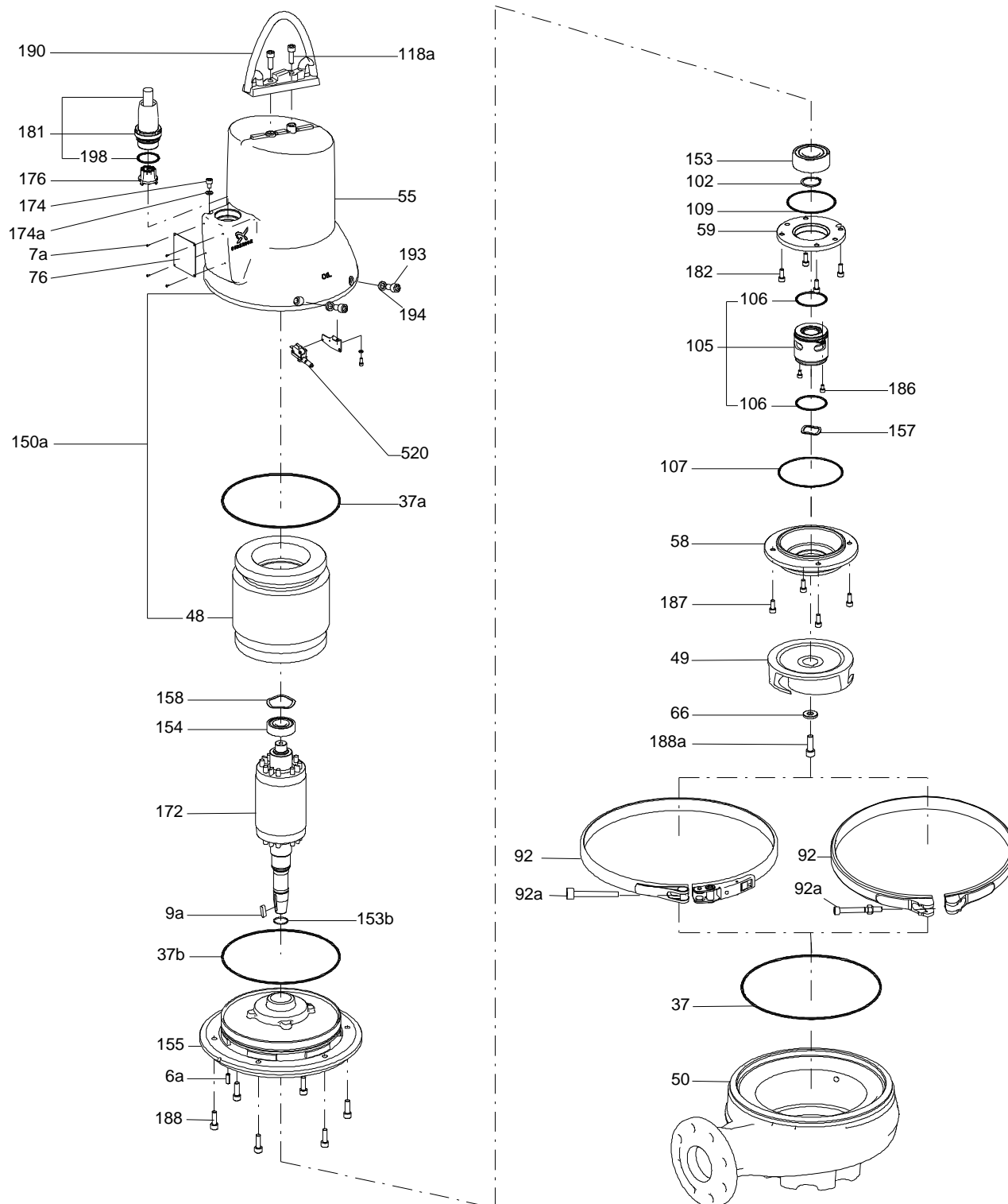
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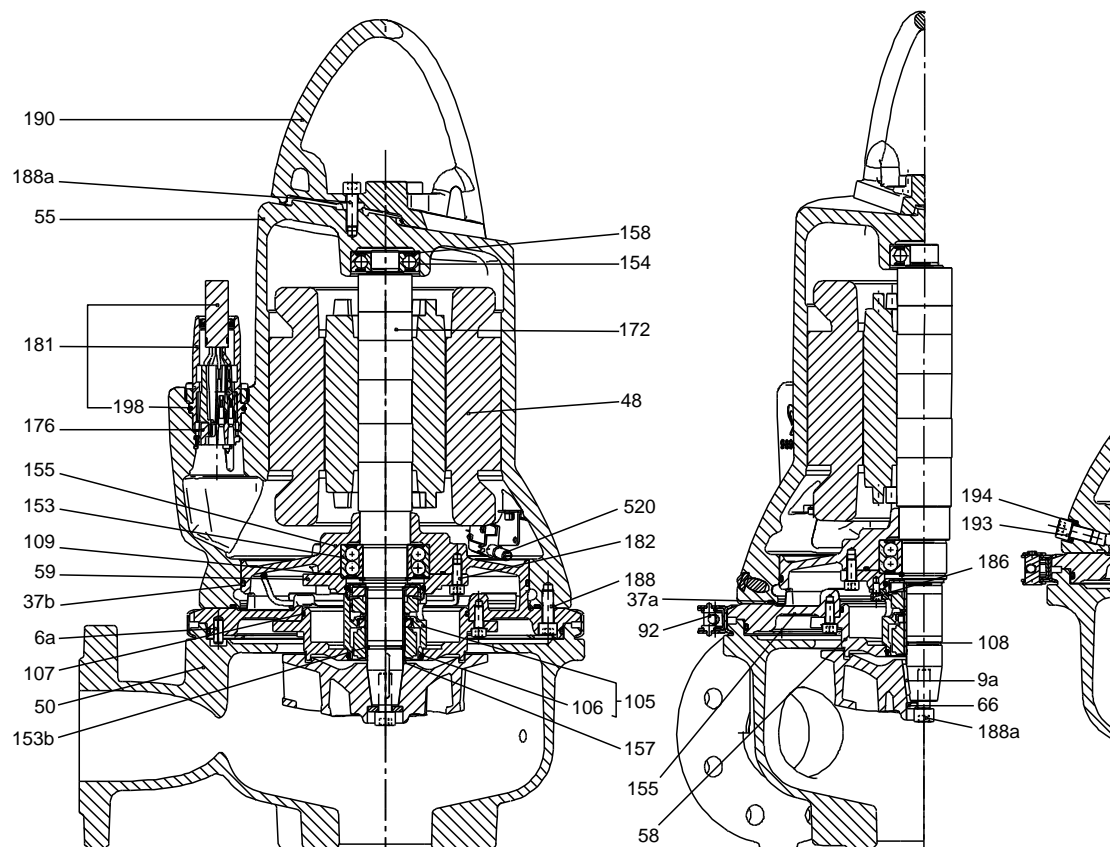
Product No.: 99034501

Total: Price on request

Exploded view (TM065983 SLV 1,1-11kW w/o sensor)



Sectional drawing (TM061072 SLV 1,1-11kW w/o sensor)



Parts list SLV.30.A30.30.4.60J.C, Prod number 99034501

Valid from 2.6.2014 (1423)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
	Hex head screw				2	pcs
	Hex head screw				1	pcs
	Earth connector				1	pcs
6a	Pin				1	pcs
9a	Parallel key		Dimension: 5X5X16		1	pcs
37	O-ring		Diameter: 250		1	pcs
			Material type: NBR70			
			Thickness: 4			
37a	O-ring		Diameter: 210		1	pcs
			Material type: NBR			
			Thickness: 4			
37b	O-ring		Diameter: 185		1	pcs
			Material type: NBR			
			Thickness: 4			
48	Stator				1	pcs
49	Impeller				1	pcs
50	Pump housing				1	pcs
55	Stator housing				1	pcs
58	Cover for oil chamber				1	pcs
58a	Hex socket head cap screw		Designation: DIN 912		1	pcs
			Length: 25			
			Thread: M10			
59	Bearing cover				1	pcs
66	Washer		Inner diameter: 10.5		1	pcs
			Outer diameter: 25			
			Thickness: 3			
- 92	Strap cpl.				1	pcs
	Strap				1	
1	Lock nut		Thread: M8		1	
92a	Hex socket head cap screw				1	
102	Retaining ring				1	pcs
- 105	Shaft seal				1	pcs
	Shaft seal				1	
	Shaft seal				1	
	Shaft seal				1	
	Retaining ring				1	
	Shaft seal, rotating part				1	
	Shaft seal, rotating part				1	
	Shaft seal, stationary part				1	
	Shaft seal, stationary part				1	
106	O-ring		Diameter: 50		2	
			Material type: NBR			
			Thickness: 3			
107	O-ring		Diameter: 110		1	pcs
			Material type: NBR70			
			Thickness: 3			
108	O-ring		Diameter: 80		1	pcs
			Material type: NBR70			
			Thickness: 3			
118a	Hex socket head cap screw				6	pcs
122	Lock washer				2	pcs
- 150a	Stator w/housing cpl.				1	pcs
48	Stator				1	



Company name:

Created by:

Phone:

Date:

2/22/2018

Position	Description	Annotation	Classification data	Part No.	Count	Unit
55	Stator housing				1	
1031	Connector pin				9	
153	Ball bearing				1	pcs
153b	O-ring				1	pcs
154	Ball bearing		Designation: 6304.2Z.C3.SYN		1	pcs
155	Oil chamber				1	pcs
157	Waved washer				1	pcs
158	Waved washer				1	pcs
172	Shaft w/rotor				1	pcs
173a	Lock washer				1	pcs
176	Plug				1	pcs
- 181	Cable				1	pcs
198	O-ring				1	
186	Hex socket head cap screw				2	pcs
187	Hex socket head cap screw				4	pcs
187	Hex socket head cap screw				4	pcs
188.a	Hex socket head cap screw		Length: 25 Thread: M8		2	pcs
190	Lifting bracket				1	pcs
193	Hex socket head cap screw		Designation: A2-70 Length: 20 Thread: M12		2	pcs
194	Washer		Inner diameter: 19 Outer diameter: 12.2 Thickness: 4.4		2	pcs
520	Moisture sensor				1	pcs
1031	Connector pin				6	pcs