

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

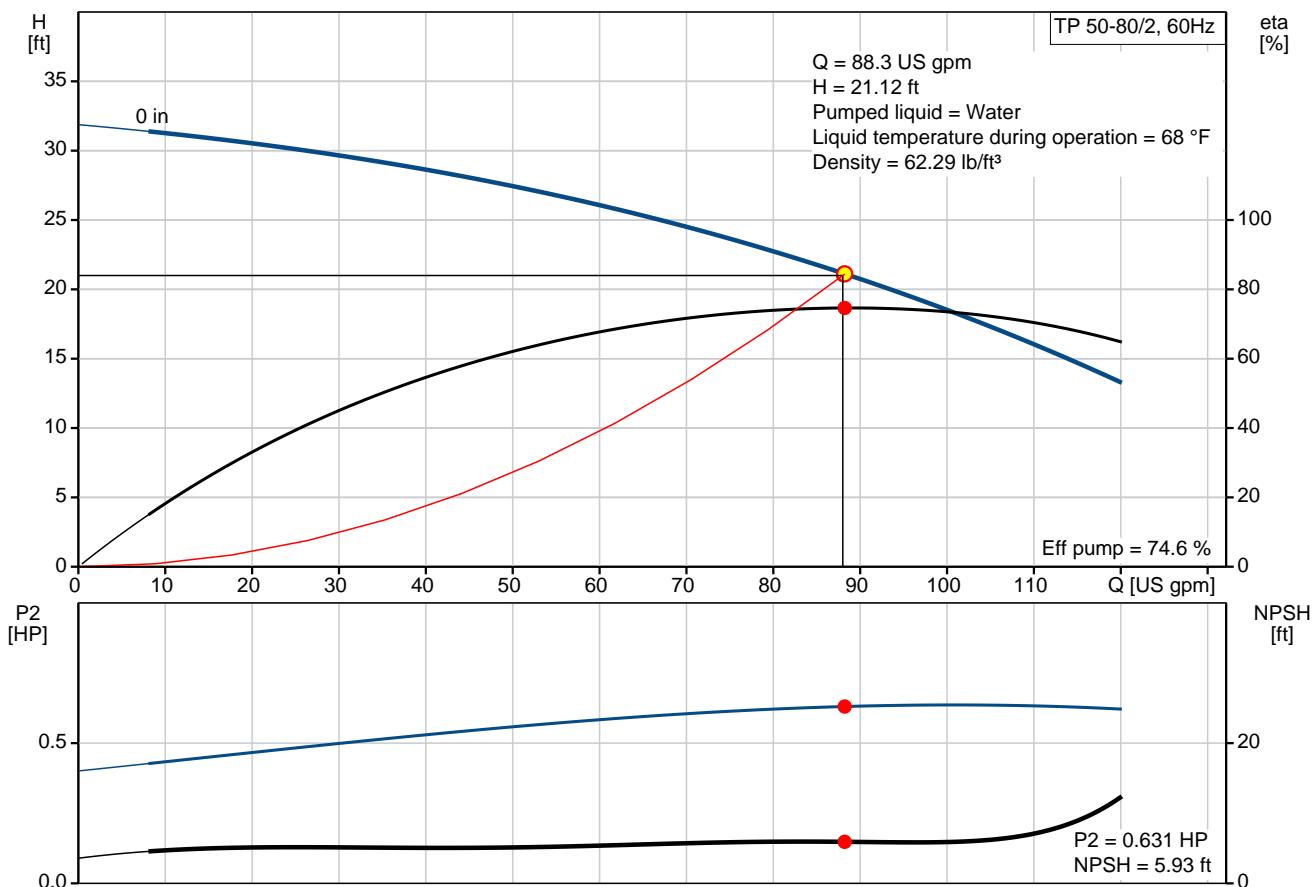


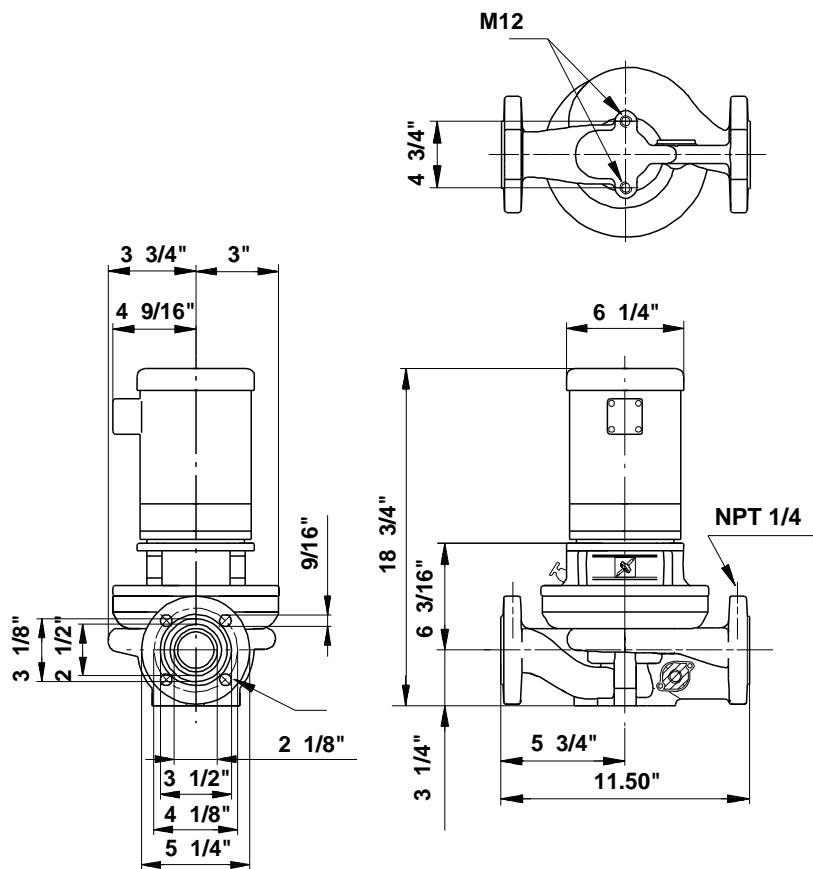
Product photo could vary from the actual product

TP 50-80/2

## Single-stage in-line pumps

Conditions of Service		Pump Data		Motor Data	
Flow:	88.3 US gpm	Maximum operating pressure:	145 psi	Rated power - P2:	0.75 HP
Head:	21.12 ft	Liquid temperature range:	5 .. 284 °F	Rated voltage:	208-230/460 V
Efficiency:		Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
Liquid:	Water	Approvals motor:	UL Recognized Component, CSA	Number of poles:	2
Temperature:	68 °F	Shaft seal:	BUBE	Insulation class:	B
NPSH required:	5.93 ft	Flange standard:	USA	Motor protection:	NONE
Viscosity:		Pipe connection:	2"	Motor type:	Baldor, TEFC
Specific Gravity:	1.000	Product number:	96411811	Motor_efficiency:	74 %





**Materials:**

Pump housing: Cast iron  
EN-JL1040  
ASTM 25 B

Impeller: Stainless steel  
DIN W.-Nr. 1.4301  
AISI 304

Material code: A

## Tender Text



Product No.: [96411811](#)

**TP 50-80/2 A-G-A-BUBE**

Single-stage centrifugal volute in-line single-head pump:

- neck rings and impeller made of stainless steel
- cataphoresis treatment
- shell coupling
- top-pull-out principle for easy maintenance
- optimized hydraulics
- in-line design with opposite suction and discharge ports enabling mounting in pipework or on a concrete foundation
- corrosion resistant maintenance-free mechanical shaft seal.

The motor is a 3-phase AC motor.

### Liquid:

Pumped liquid: Water  
Liquid temperature range: 5 .. 284 °F  
Liquid temperature during operation: 68 °F  
Density: 62.29 lb/ft³

### Technical:

Speed for pump data: 3480 rpm  
Actual calculated flow: 88.3 US gpm  
Resulting head of the pump: 21.12 ft  
Primary shaft seal: BUBE  
Approvals on motor nameplate: UL Recognized Component, CSA  
Curve tolerance: ISO9906:2012 3B

### Materials:

Pump housing: Cast iron  
EN-JL1040  
ASTM 25 B  
Impeller: Stainless steel  
DIN W.-Nr. 1.4301  
AISI 304

### Installation:

Maximum ambient temperature: 104 °F  
Maximum operating pressure: 145 psi  
Flange standard: USA  
Pipe connection: 2"

### Electrical data:

Motor type: Baldor, TEFC  
Rated power - P2: 0.75 HP  
Main frequency: 60 Hz  
Rated voltage: 3 x 208-230/460 V



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Date:

2/20/2018

Service factor: 1,25  
Rated current: 2,7-2,6/1,3 A  
Starting current: 16,8-15,2/7,6 A  
Cos phi - power factor: 73  
Rated speed: 3450 rpm  
Motor efficiency at full load: 74 %  
Number of poles: 2  
Insulation class (IEC 85): B

**Others:**

Net weight: 67.3 lb  
Gross weight: 63 lb  
Shipping volume: 1.98 ft<sup>3</sup>

Position	Count	Description
1	TP 50-80/2 A-G-A-BUBE	<p></p> <p>Product No.: <a href="#">96411811</a></p> <p>Single-stage centrifugal volute in-line single-head pump:</p> <ul style="list-style-type: none"> <li>- neck rings and impeller made of stainless steel</li> <li>- cataphoresis treatment</li> <li>- shell coupling</li> <li>- top-pull-out principle for easy maintenance</li> <li>- optimized hydraulics</li> <li>- in-line design with opposite suction and discharge ports enabling mounting in pipework or on a concrete foundation</li> <li>- corrosion resistant maintenance-free mechanical shaft seal.</li> </ul> <p>The motor is a 3-phase AC motor.</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 5 .. 284 °F</p> <p>Liquid temperature during operation: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p><b>Technical:</b></p> <p>Speed for pump data: 3480 rpm</p> <p>Actual calculated flow: 88.3 US gpm</p> <p>Resulting head of the pump: 21.12 ft</p> <p>Primary shaft seal: BUBE</p> <p>Approvals on motor nameplate: UL Recognized Component, CSA</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron EN-JL1040 ASTM 25 B</p> <p>Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p><b>Installation:</b></p> <p>Maximum ambient temperature: 104 °F</p> <p>Maximum operating pressure: 145 psi</p> <p>Flange standard: USA</p> <p>Pipe connection: 2"</p> <p><b>Electrical data:</b></p> <p>Motor type: Baldor, TEFC</p> <p>Rated power - P2: 0.75 HP</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 3 x 208-230/460 V</p> <p>Service factor: 1,25</p>



Company name:

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Position	Count	Description
		<p>Rated current: 2,7-2,6/1,3 A Starting current: 16,8-15,2/7,6 A Cos phi - power factor: 73 Rated speed: 3450 rpm Motor efficiency at full load: 74 % Number of poles: 2 Insulation class (IEC 85): B</p> <p><b>Others:</b></p> <p>Net weight: 67.3 lb Gross weight: 63 lb Shipping volume: 1.98 ft<sup>3</sup></p>



Company name:

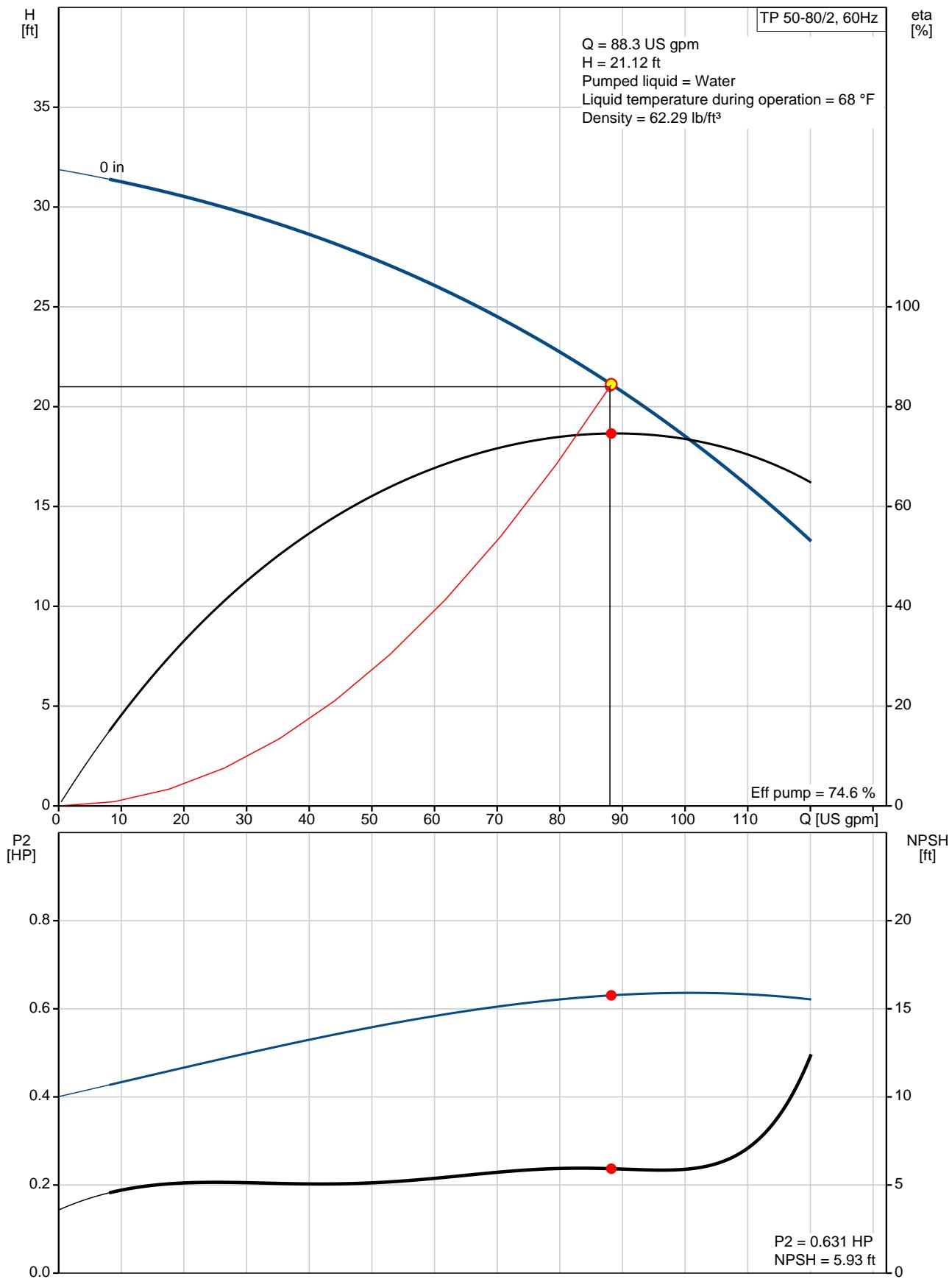
Created by:

Phone:

Date:

2/20/2018

## 96411811 TP 50-80/2 60 Hz





Company name:

Created by:

Phone:

Date:

2/20/2018

Description	Value
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**General information:**

Product name:	TP 50-80/2 A-G-A-BUBE
Product No.:	96411811
EAN:	5700390524661

**Technical:**

Speed for pump data:	3480 rpm
Actual calculated flow:	88.3 US gpm
Resulting head of the pump:	21.12 ft
Head max:	26.25 ft
Primary shaft seal:	BUBE
Approvals on motor nameplate:	UL Recognized Component, CSA
Curve tolerance:	ISO9006:2012 3B
Pump Number:	96405263
Pump version:	A

**Materials:**

Pump housing:	Cast iron EN-JL1040 ASTM 25 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A

**Installation:**

Maximum ambient temperature:	104 °F
Maximum operating pressure:	145 psi
Flange standard:	USA
Connect code:	G
Pipe connection:	2"

**Liquid:**

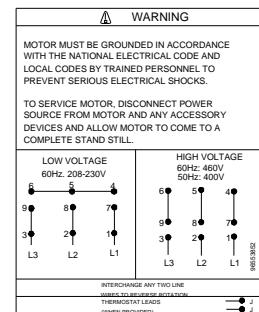
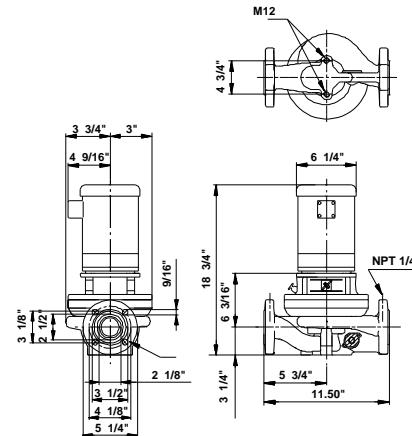
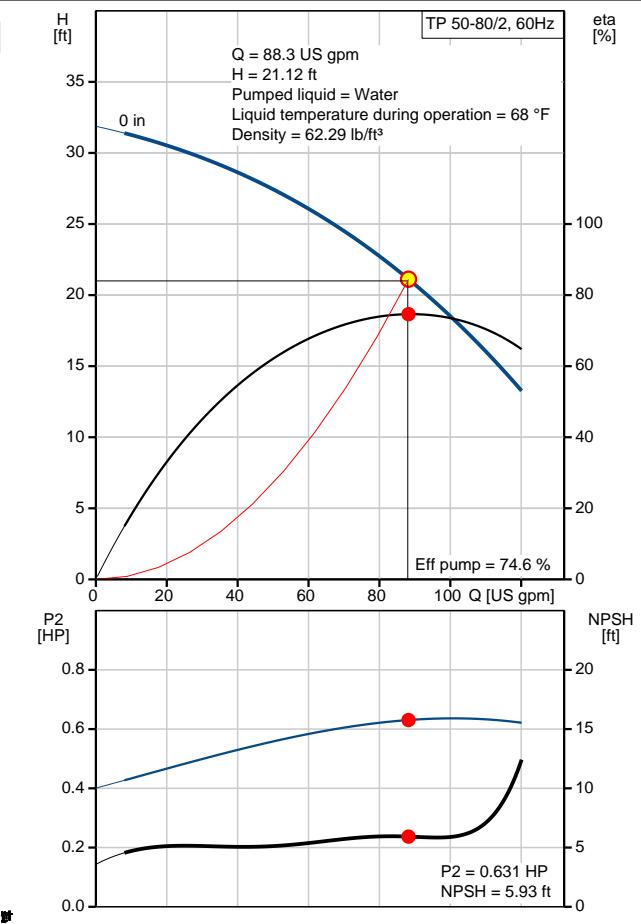
Pumped liquid:	Water
Liquid temperature range:	5 .. 284 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³

**Electrical data:**

Motor type:	Baldor, TEFC
Rated power - P2:	0.75 HP
KVA code:	K
Main frequency:	60 Hz
Rated voltage:	3 x 208-230/460 V
Service factor:	1,25
Rated current:	2,7-2,6/1,3 A
Starting current:	16,8-15,2/7,6 A
Load current:	3,1-3,1/1,5 A
Cos phi - power factor:	73
Rated speed:	3450 rpm
Motor efficiency at full load:	74 %
Number of poles:	2
Insulation class (IEC 85):	B
Motor protection:	NONE
Motor Number:	85900702

**Others:**

Net weight:	67.3 lb
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Company name:

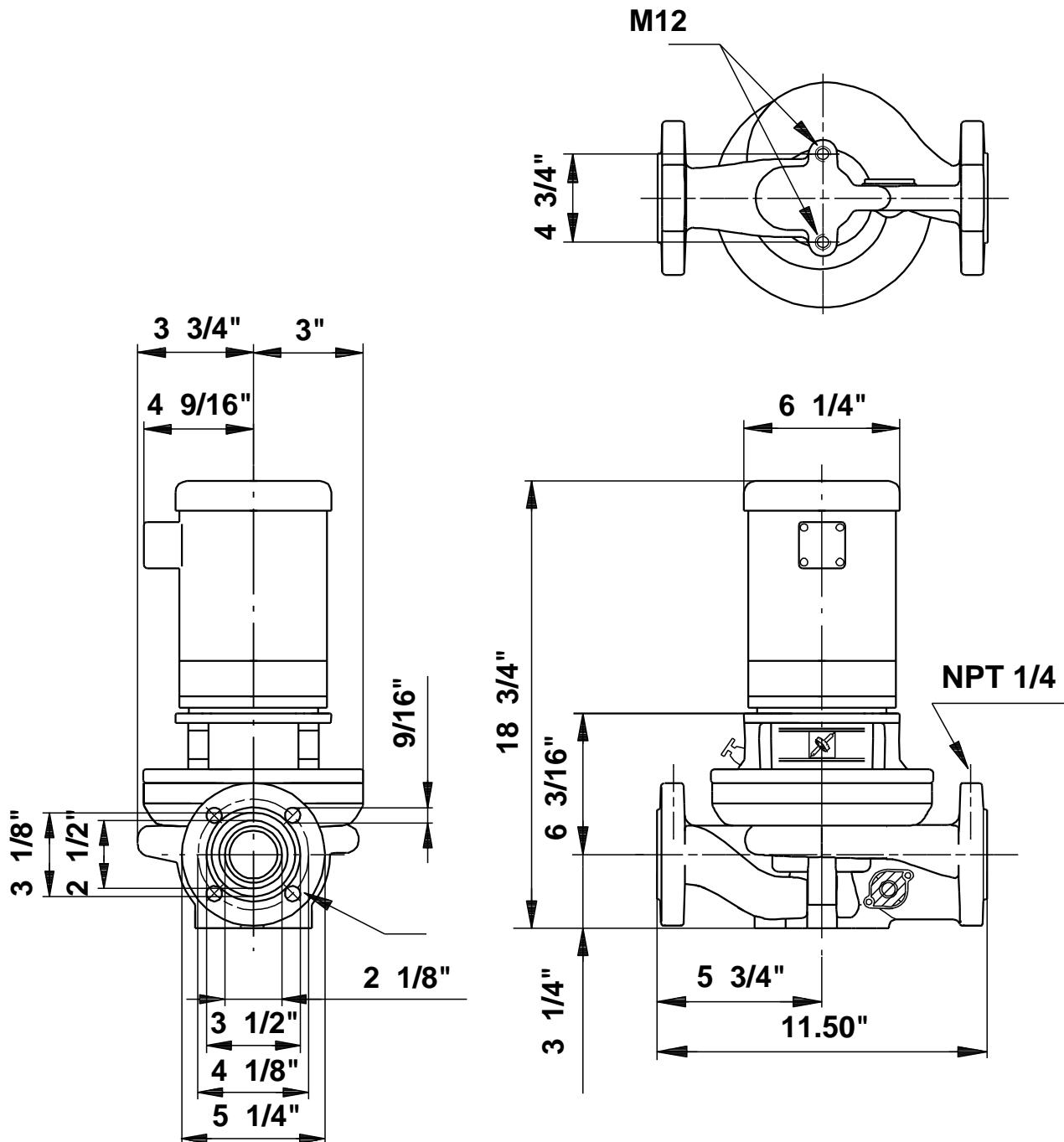
Created by:

Phone:

Date: 2/20/2018

Description	Value
Gross weight:	63 lb
Shipping volume:	1.98 ft <sup>3</sup>
Country code:	Namreg

**96411811 TP 50-80/2 60 Hz**



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



Company name:

Created by:

Phone:

Date:

2/20/2018

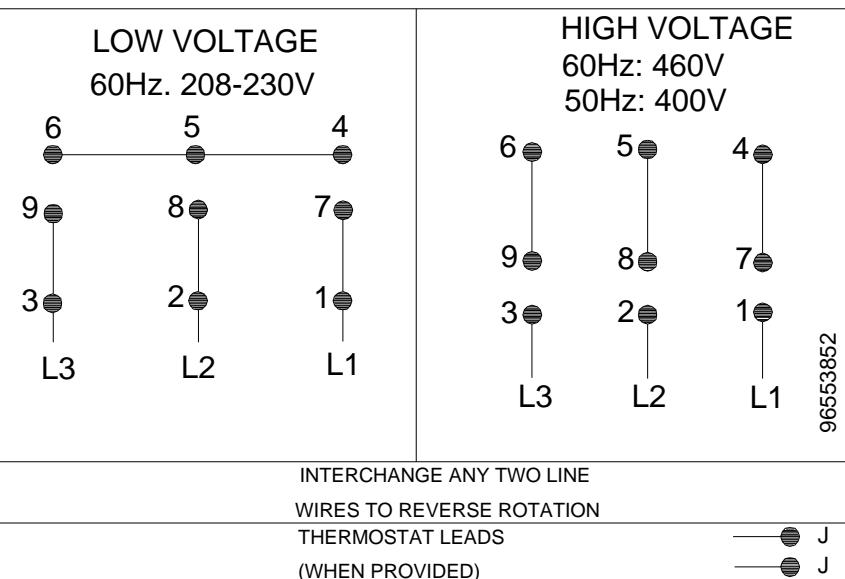
**96411811 TP 50-80/2 60 Hz**



## WARNING

MOTOR MUST BE GROUNDED IN ACCORDANCE  
WITH THE NATIONAL ELECTRICAL CODE AND  
LOCAL CODES BY TRAINED PERSONNEL TO  
PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER  
SOURCE FROM MOTOR AND ANY ACCESSORY  
DEVICES AND ALLOW MOTOR TO COME TO A  
COMPLETE STAND STILL.



All units are [mm] unless otherwise presented.



Company name:

Created by:

Phone:

Date:

2/20/2018

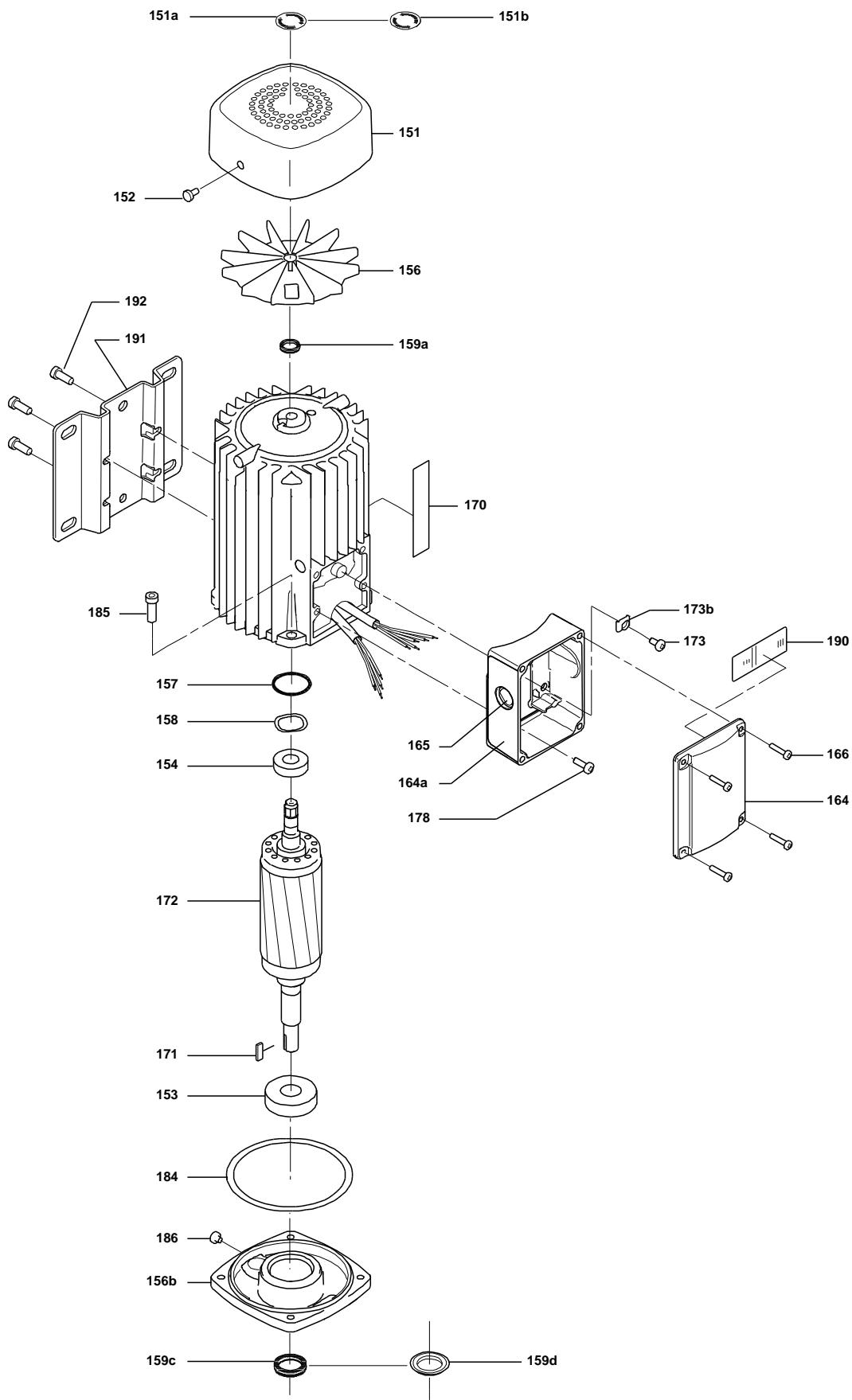
**Order Data:**

Product name: TP 50-80/2 A-G-A-BUBE

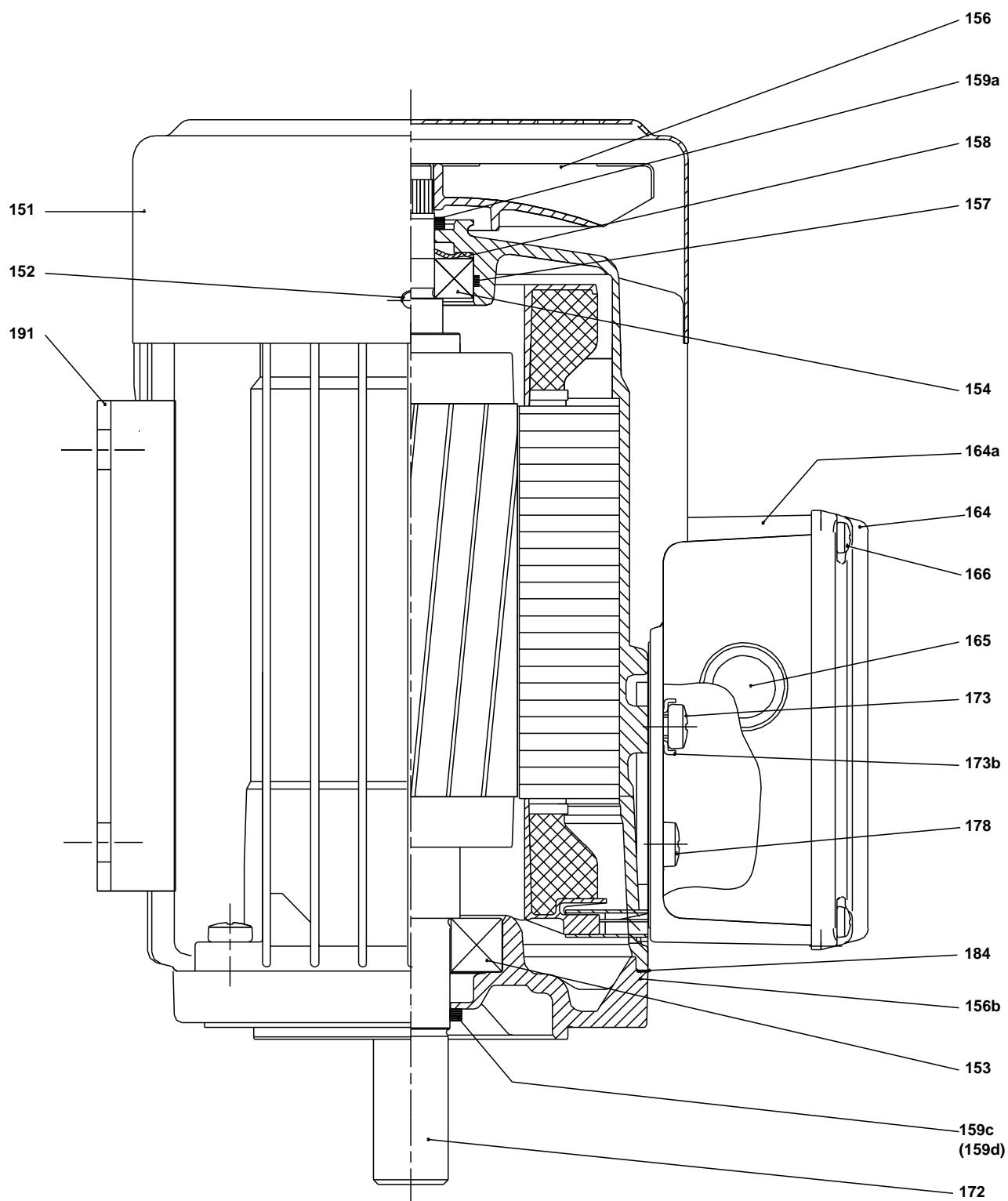
Amount: 1

Product No.: 96411811

Total: Price on request

**Exploded view (tm030552)**

TM030552)

**Sectional drawing (TM031466)**

TM031466

**GRUNDFOS**

**Company name:**

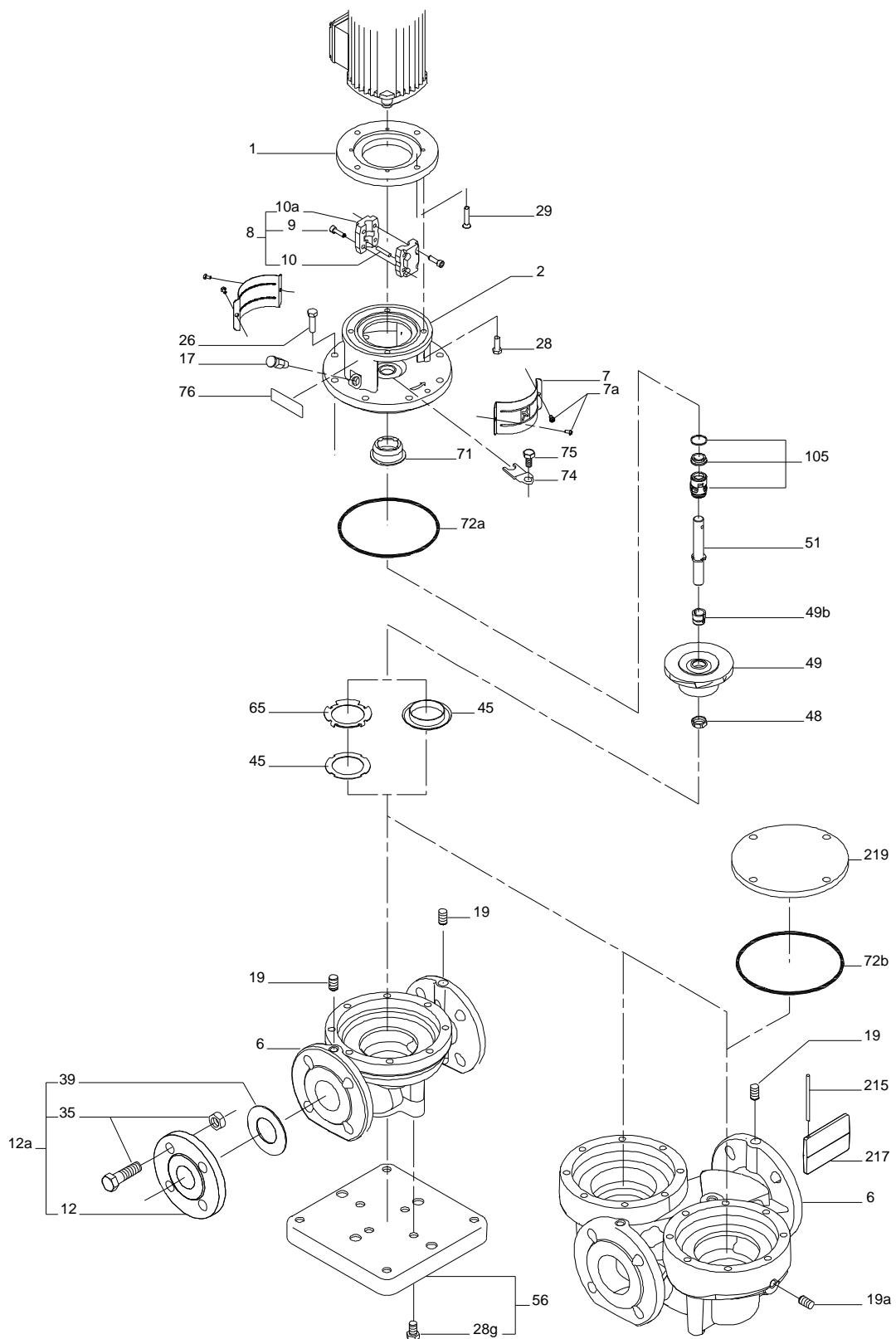
Created by:

**Phone:**

Date:

2/20/2018

## Exploded view (tm009281 2201)



TM009281



Company name:

Created by:

Phone:

Date:

2/20/2018

**Parts list TP 50-80/2, Prod number 96411811**

**Valid from 8.11.2013 (1345)**

Position	Description	Annotation	Classification data	Part No.	Count	Unit
+	Motor				1	pcs
-	Pump				1	pcs
2	Motor stool				1	
6	Pump housing				1	
6	Pump housing				1	
7	Coupling guard				2	
7a	Pan head screw				4	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length: 20				
		Thread: M6				
10	Shaft pin	Diameter: 5			1	
		Length: 26				
10a	Coupling half				2	
17	Air vent screw				1	
19	Pipe plug				2	
26	Hex head screw	Length: 28			8	
		Thread: M10				
45	Teflon ring				1	
48	Split cone nut				1	
49	Impeller cpl.				1	
49b	Split cone				1	
65	Neck ring				1	
72a	O-ring				1	
76	Nameplate				1	
105	Shaft seal	Material type: EPDM			1	