

Submittal Data

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

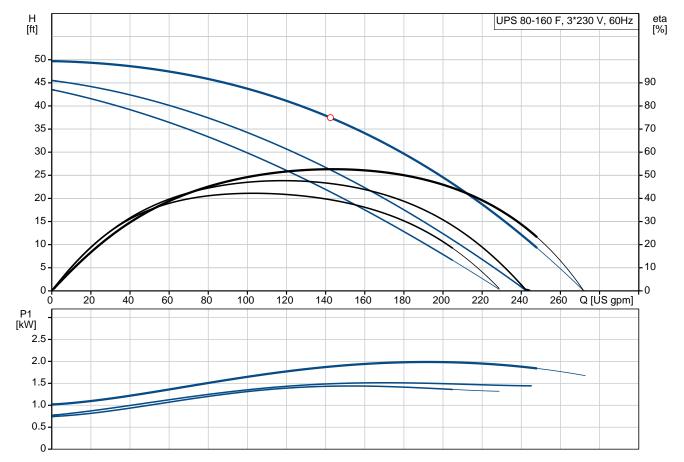


UPS 80-160 F

Circulator pumps

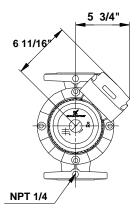
Product photo could vary from the actual product

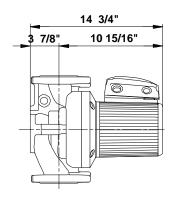
Conditions of Service		Pump Data		Motor Data	
Flow: Head: Efficiency: Liquid: Temperature: NPSH required: Viscosity: Specific Gravity:	Water 140 °F ft 0.985	Maximum operating pressure: Liquid temperature range: Maximum ambient temperature: Approvals: Type of connection: Flange standard: Pipe connection: Product number:	145 psi 14 248 °F 104 °F CUL F ANSI GF 80 96402920	Max. power input: Rated voltage: Main frequency: Enclosure class: Insulation class: Motor protection: Thermal protection:	2050 W 208-230 V 60 Hz X4D H CONTACT external

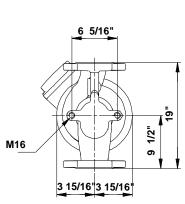


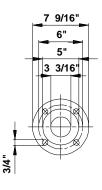


Submittal Data









Materials:

Pump housing:	Cast iron
	EN-JL1040
	ASTM 35 B - 40 B
Impeller:	Stainless steel
-	DIN WNr. 1.4301
	AISI 304



2/21/2018

Tender Text



Product photo could vary from the actual product

Product No.: 96402920 UPS 80-160 F

The pump is of the canned rotor type, i.e. pump and motor form an integral unit without shaft seal and with only two gaskets for sealing. The bearings are lubricatd by the pumped liquid.

In order to avoid problems in connection with disposal, great importance has been attached to using as few different materials as possible.

The pump is characterized by:

- 3 speed motor.
- * Ceramic radial bearings.
- * Carbon axial bearing.
- Stainless steel rotor can, bearing plate

and rotor cladding.

- Aluminium alloy stator housing.
- Cast iron pump housing.
- * Stator with built-in thermal switch.

The motor is a 3-phase motor.

The pump is supplied with a standard module in the terminal box. The standard module is to be connected to the mains supply via external contactor.

Controls: Relay:

without relay

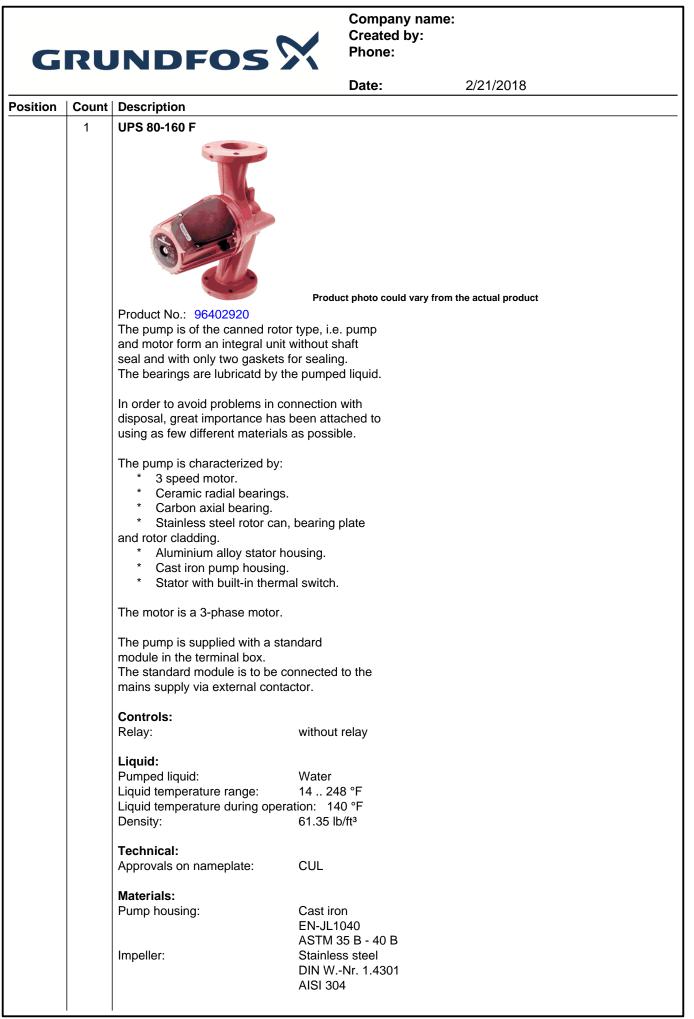
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water 14 248 °F tion: 140 °F 61.35 lb/ft ³
Technical: Approvals on nameplate:	CUL
Materials: Pump housing:	Cast iron EN-JL1040
Impeller:	ASTM 35 B - 40 B Stainless steel DIN WNr. 1.4301



Date:

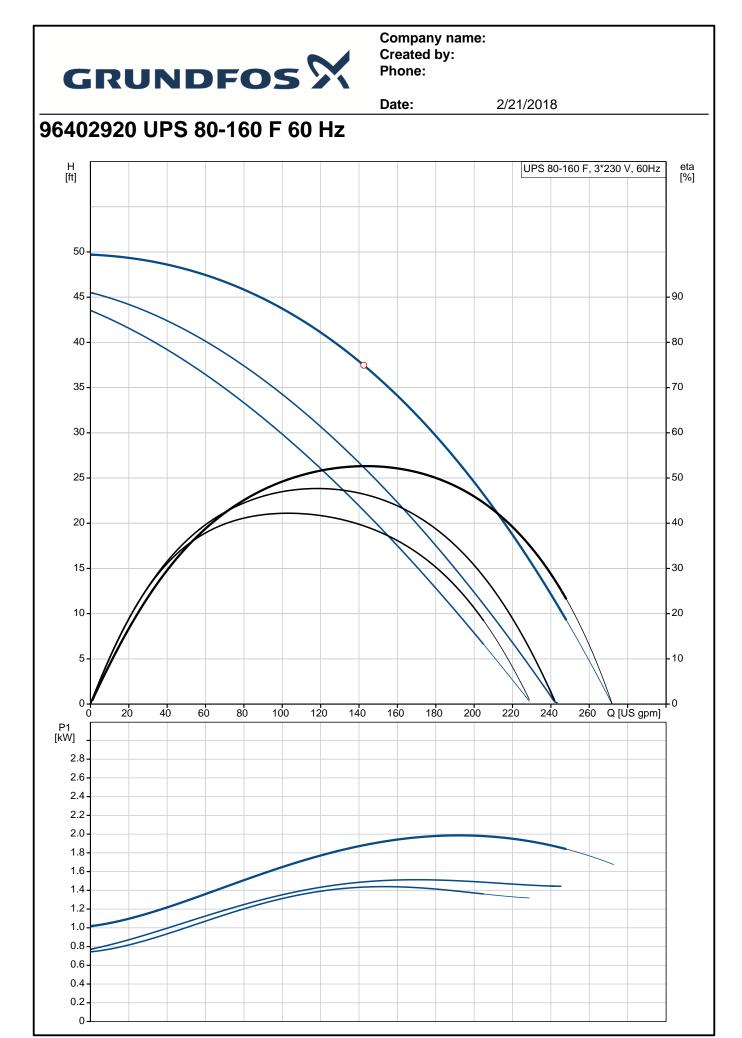
2/21/2018

	AISI 304
Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Type of connection: Pipe connection: Pressure stage: Port-to-port length:	32 104 °F 145 psi ANSI F GF 80 145 psi 19 in
Electrical data: Power input in speed 1: Power input in speed 2: Max. power input: Main frequency: Rated voltage: Current in speed 1: Current in speed 2: Current in speed 3: Cos phi in speed 1: Cos phi in speed 2: Cos phi: Enclosure class (IEC 34-5): Insulation class (IEC 85): Winding resistance:	1500 W 1550 W 2050 W 60 Hz 3 x 208-230 V 4.05 A 4.2 A 6.35 A 0,93 0,93 0,81 X4D H 7.8 - 10.2 ohm
Others: Net weight: Gross weight: Shipping volume:	91.9 lb 97.2 lb 3.46 ft ³





		INDFOS 2	Date:	2/21/2018
Position	Count	Description		
		Installation:		
		Range of ambient temperature:		
		Maximum operating pressure:	145 psi	
		Flange standard:	ANSI	
		Type of connection: Pipe connection:	F GF 80	
		Pressure stage:	145 psi	
		Port-to-port length:	19 in	
		Electrical data: Power input in speed 1:	1500 W	
		Power input in speed 2:	1550 W	
		Max. power input:	2050 W	
		Main frequency:	60 Hz	
		Rated voltage:	3 x 208-230 V	
		Current in speed 1:	4.05 A	
		Current in speed 2:	4.2 A 6.35 A	
		Current in speed 3: Cos phi in speed 1:	0,93	
		Cos phi in speed 2:	0,93	
		Cos phi:	0,81	
		Enclosure class (IEC 34-5):	X4D	
		Insulation class (IEC 85):	Н	
		Winding resistance:	7.8 - 10.2 ohm	
		Others:		
		Net weight:	91.9 lb	
		Gross weight:	97.2 lb	
		Shipping volume:	3.46 ft ³	
		1		



Printed from Grundfos Product Center [2017.09.058]



		Date:	2/21/2018		
Description	Value	H [ft]	U	PS 80-160 F, 3*230 V, 60Hz	eta [%]
General information:					_
Product name:	UPS 80-160 F	50			
Product No.:	96402920	50 -			
EAN:	5700390685973	45 -			- 90
	0.0000000000	-			
Technical:		40 -			- 80
Speed Number:	3	35 -	$\backslash \backslash \checkmark$		70
Head max:	52.5 ft				
Approvals on nameplate:	CUL	30 -			- 60
Model:	C	25 -			- 50
		23			- 50
Materials:		20 -			- 40
Pump housing:	Cast iron				
	EN-JL1040	15-			- 30
	ASTM 35 B - 40 B	10-			- 20
Impeller:	Stainless steel				
•	DIN WNr. 1.4301	5-			- 10
	AISI 304				0
		Ö	0 100 150	200 Q [US gpm]	
Installation:		P1			_
Range of ambient temperature:	32 104 °F				
Maximum operating pressure:	145 psi	2.5 -			_
Flange standard:	ANSI	2.0 -			
Type of connection:	F				
Pipe connection:	GF 80	1.5 -			_
Pressure stage:	145 psi	1.0-			_
Port-to-port length:	19 in				
1 0		0.5 -			_
Liquid:		0			
Pumped liquid:	Water		44.045		
Liquid temperature range:	14 248 °F	6 11/16 ⁻⁵ 3/4"	14 3/4" 8 7/8" 10 15/16"	6 5/16"	7 9/16"
Liquid temperature during operation:	140 °F				5"
Density:	61.35 lb/ft ³				
			╶╶╤╬┽┼┝═══┫		
Electrical data:	3			A16 0 37	
Power input in speed 1:	1500 W	NPT 1/4	·	3 15/16 3 15/16	
Power input in speed 2:	1550 W				
Max. power input:	2050 W				
Main frequency:	60 Hz				
Rated voltage:	3 x 208-230 V				
Current in speed 1:	4.05 A				
Current in speed 2:	4.2 A				
Current in speed 3:	6.35 A				
Cos phi in speed 1:	0,93				
Cos phi in speed 2:	0,93				
Cos phi:	0,81				
Enclosure class (IEC 34-5):	X4D	4		4	
Insulation class (IEC 85):	Н				
Motor protection:	CONTACT				
Thermal protec:	external				
Winding resistance:	7.8 - 10.2 ohm	T1 T2	 ╈ L3 L2 L1 	T1 T2 = L3 L2 L1	
-		к	/-/- /- к	· 🔁 🛛 / - / - / - 🗍	
Controls:		Stop -	+ •		
Relay:	without relay				
Pos term box:	1.30H	Start — K —	Start/Stop		
			ффф	ф ф ф	
Others:			<pre></pre>		
Net weight:	91.9 lb	Imp		Changeover	
Gross weight:	97.2 lb		acts	Contacts	

Printed from Grundfos Product Center [2017.09.058]



Date:

2/21/2018

Description Shipping volume: Sales region:

3.46 ft³ Namreg

Value



Date:

2/21/2018

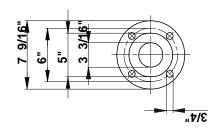
96402920 UPS 80-160 F 60 Hz

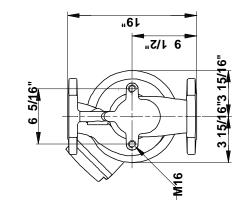


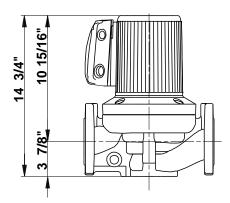
2/21/2018

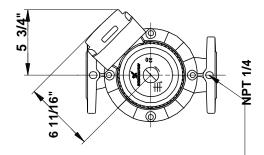
Date:

96402920 UPS 80-160 F 60 Hz









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

с

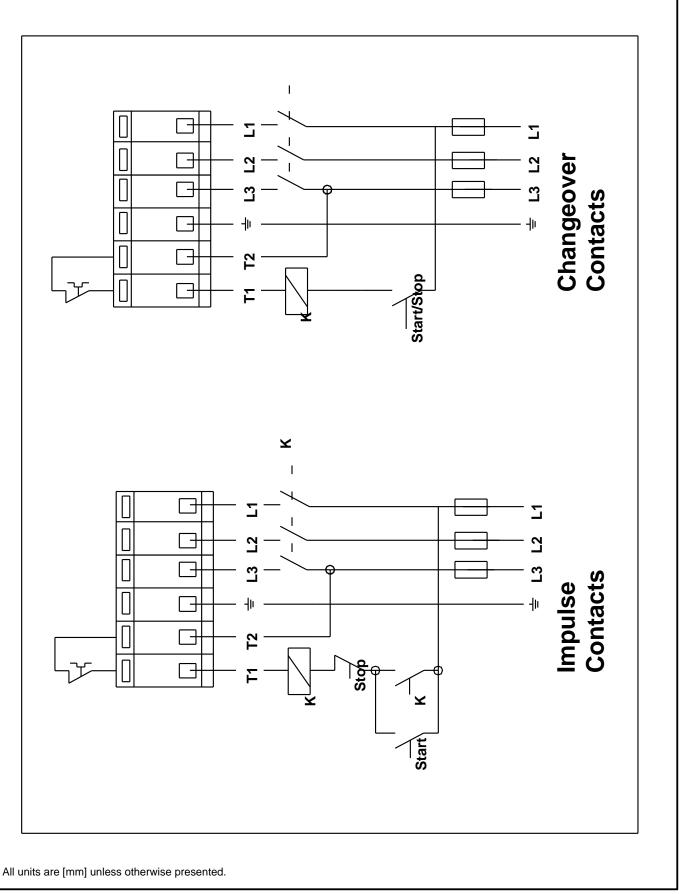
Printed from Grundfos Product Center [2017.09.058]



Date:

2/21/2018

96402920 UPS 80-160 F 60 Hz





2/21/2018

Order Data:

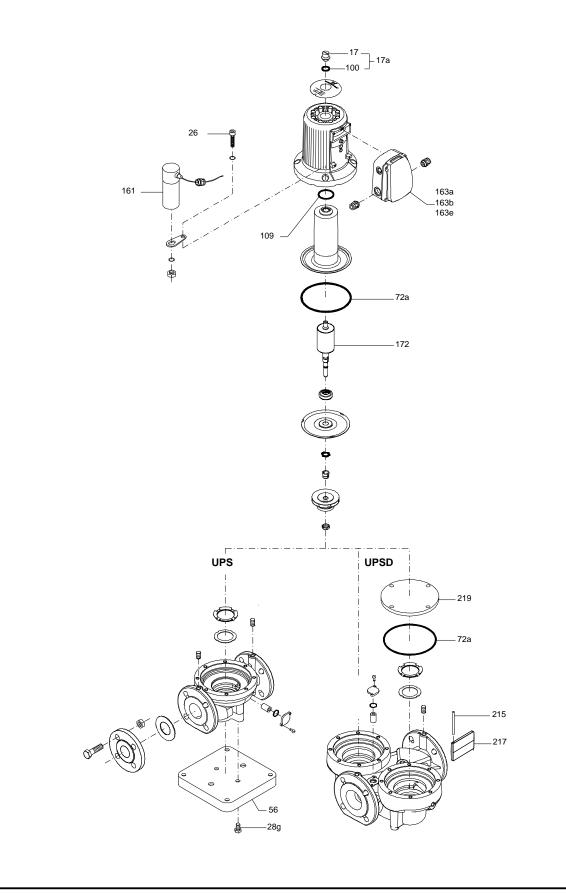
Product name:UPS 80-160 FAmount:1Product No.:96402920

Total: Price on request



2/21/2018

Exploded view (TM010410 3905)

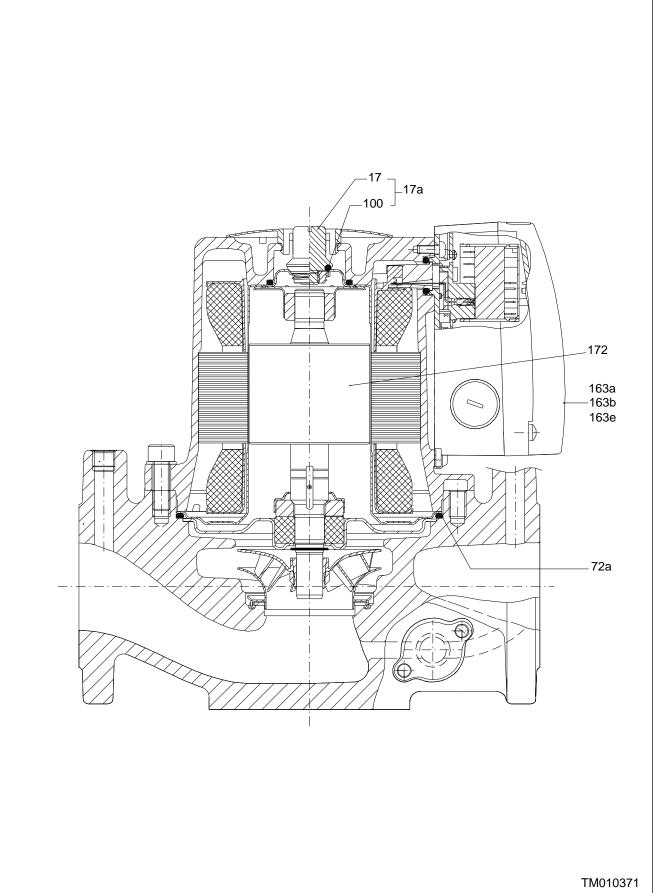


TM010410



2/21/2018

Sectional drawing (TM010371 3905)





2/21/2018

Parts list UPS 80-160 F, Prod number 96402920 Valid from 1.4.1995 (9513)

Position	Description	Annotation	Classification data	Part No.	Count	Unit
163a	Terminal box cpl.		Designation: WITH RELAY MODULE		1	pcs
163b	Terminal box cpl.		Designation: WITH STANDARD MODULE		1	pcs
163e	Terminal box cpl.		Designation: W. PROTECTION MODULE		1	pcs