

Submittal Data

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

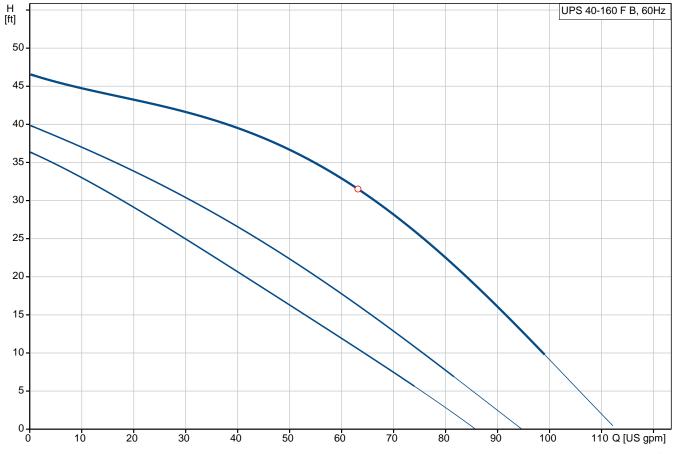


UPS 40-160 F B

Circulator pumps

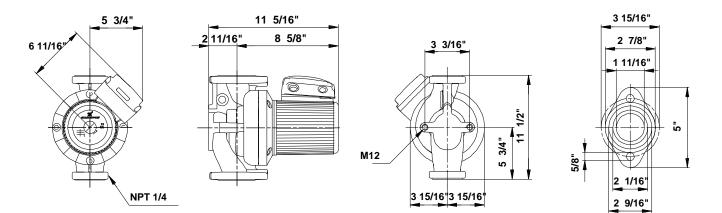
Product photo could vary from the actual product

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 USA Oval GF 40/43 96402789	Max. power input: Rated voltage: Main frequency: Enclosure class: Insulation class: Motor protection: Thermal protection:	800 W 208-230 V 60 Hz X4D H CONTACT external



Submittal Data





Materials:

Pump housing: E

Impeller:

Bronze DIN W.-Nr. 2.1176.01 Stainless steel DIN W.-Nr. 1.4301 AISI 304



2/21/2018

Tender Text



Product photo could vary from the actual product

Product No.: 96402789 UPS 40-160 F B

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.
- * Bronze 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 of Density:	Water 14 248 °F peration: 140 °F 61.35 lb/ft³
Technical: Approvals on nameplate:	CUL
Materials:	
Pump housing:	Bronze
Impollori	DIN WNr. 2.1176.01 Stainless steel
Impeller:	DIN WNr. 1.4301
	AISI 304



Date:

2/21/2018

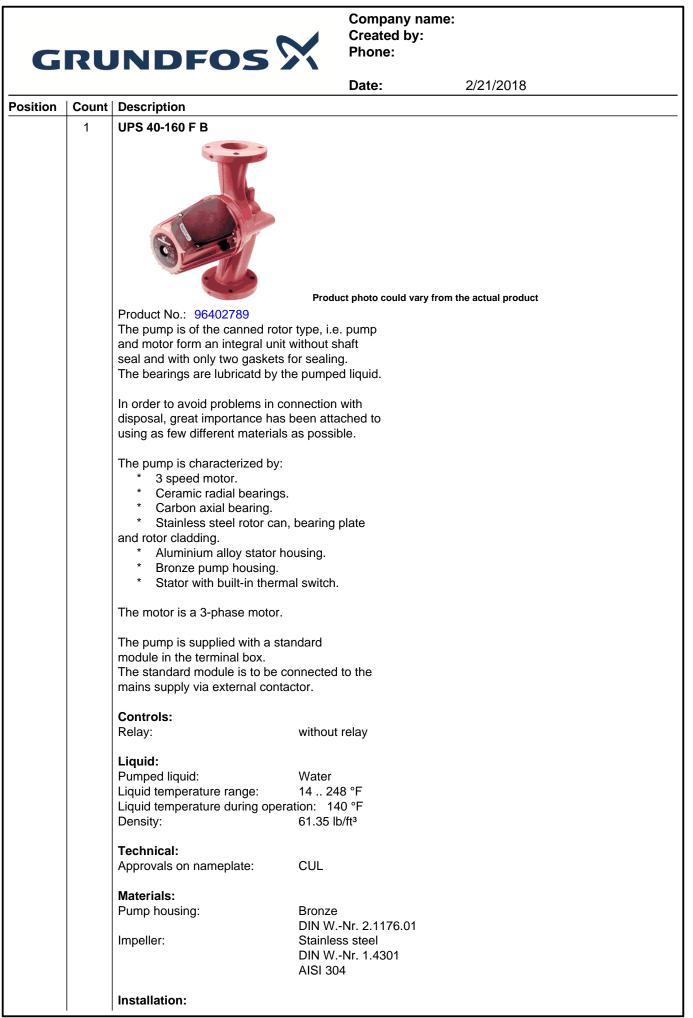
Installation:	
Range of ambient temperature:	32 104 °F
Maximum operating pressure:	145 psi
Flange standard:	USA Oval
Type of connection:	F
Pipe connection:	GF 40/43
Pressure stage:	145 psi
Port-to-port length:	11 1/2 in

Electrical data:

Power input in speed 1:	500 W
Power input in speed 2:	570 W
Max. power input:	800 W
Main frequency:	60 Hz
Rated voltage:	3 x 208-230 V
Current in speed 1:	1.55 A
Current in speed 2:	1.75 A
Current in speed 3:	2.5 A
Cos phi in speed 1:	0,81
Cos phi in speed 2:	0,82
Cos phi:	0,8
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	Н
Winding resistance:	22.8 - 30.0 ohm

Others:

Net weight:	49.8 lb
Gross weight:	58.6 lb
Shipping volume:	3.46 ft ³



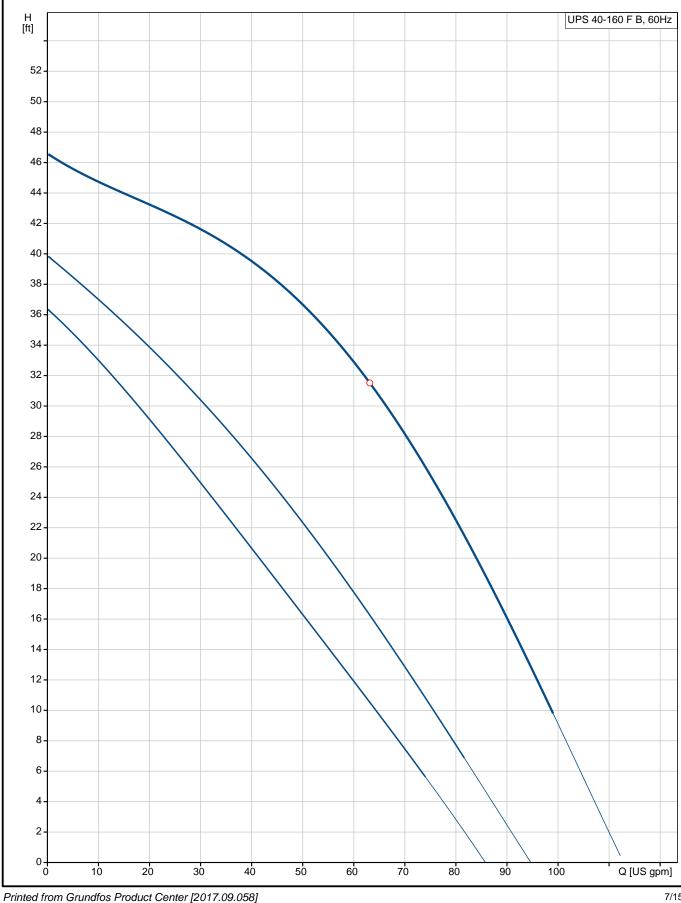


			Date:	2/21/2018
Position	Count	•		
		Range of ambient temperature: Maximum operating pressure: Flange standard: Type of connection: Pipe connection: Pressure stage:	145 psi USA Oval F GF 40/43 145 psi	
		Port-to-port length: Electrical data: Power input in speed 1: Power input in speed 2: Max. power 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 1: Cos phi in speed 2: Cos phi: Enclosure class (IEC 34-5): Insulation class (IEC 85): Winding registeree:	11 1/2 in 500 W 570 W 800 W 60 Hz 3 x 208-230 V 1.55 A 1.75 A 2.5 A 0,81 0,82 0,8 X4D H 22 8 20 0 obm	
		Winding resistance: Others: Net weight: Gross weight: Shipping volume:	22.8 - 30.0 ohm 49.8 lb 58.6 lb 3.46 ft ³	



2/21/2018

96402789 UPS 40-160 F B 60 Hz





		Date:	Z/Z	1/2018		
Description	Value	H [ft]			UPS 40-	160 F B, 60H
General information:	taluc	_				
Product name:	UPS 40-160 F B	52 -				
		50 -				
Product No.:	96402789	48 -				
EAN:	5700390681470	46 -				
Technical:		44 -				
Speed Number:	3	42 -				
Head max:	52.5 ft	40-				
Approvals on nameplate:	CUL					
Model:	C		\searrow			
Model.	0	34				
Materials:		32 -				
Pump housing:	Bronze	30 -		`_		
r unip nousing.	DIN WNr. 2.1176.01	28 -				
Impollor	Stainless steel	26 -				
Impeller:		20 - 24 -	$\langle \rangle$			
	DIN WNr. 1.4301					
	AISI 304	22 -			$\mathbf{\Lambda}$	
Installation:		20 -				
	22 404 °F	18 -		\setminus		
Range of ambient temperature:	32 104 °F	16 -		$ \land \land $		
Maximum operating pressure:	145 psi	14 -		$ \rightarrow $		
Flange standard:	USA Oval	12-		-		
Type of connection:	F	10		$ \rightarrow $		
Pipe connection:	GF 40/43	8-			\setminus	
Pressure stage:	145 psi	6		\\		
Port-to-port length:	11 1/2 in	4-				
Linuida		2-				
Liquid:		0 				\
Pumped liquid:	Water	0	20 40	60	80	Q [US gpm
Liquid temperature range:	14 248 °F	5 3/4"				3 15/16
Liquid temperature during operation:	140 °F	6 11/16	2 11/16 8 5/8"	3 3/16	1	2 7/8"
Density:	61.35 lb/ft ³			न किंद्र	1	
Electrical data:					12	
	500 \//				8 11	
Power input in speed 1:	500 W	単、		- 44	"	2 1/16
Power input in speed 2:	570 W	\ <u>\</u>	IPT 1/4	3 15/16 3 15	/16	2 9/16*
Max. power input:	800 W					
Main frequency:	60 Hz					
Rated voltage:	3 x 208-230 V					
Current in speed 1:	1.55 A					
Current in speed 2:	1.75 A					
Current in speed 3:	2.5 A					
Cos phi in speed 1:	0,81					
Cos phi in speed 2:	0,82					
Cos phi:	0,8					
Enclosure class (IEC 34-5):	X4D					
Insulation class (IEC 85):	Н		4	4		
Motor protection:	CONTACT					
Thermal protec:	external	_				
Winding resistance:	22.8 - 30.0 ohm					
-			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T1 T2	÷ L3 L2 L1	
Controls:		к	之 '/-'/-'/ -	к к	[]-[-]- [-	
Relay:	without relay	Stop	-> └┼१			
Pos term box:	1.30H	Start — K	_+ _	Start/Stop		
		Start — K				
Others:			ФФФ		ΦΦΦ	
Net weight:	49.8 lb					
			= L3 L2 L1			
Gross weight:	58.6 lb		Impulse	Ch	geover	

Printed from Grundfos Product Center [2017.09.058]



Description Sales region: Value

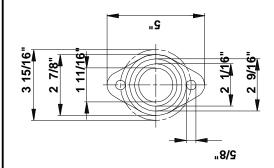
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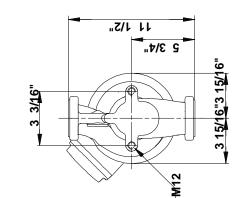
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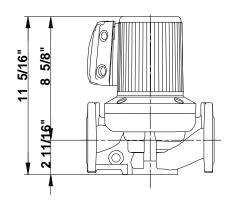


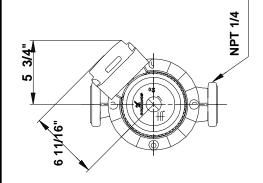
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96402789 UPS 40-160 F B 60 Hz









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

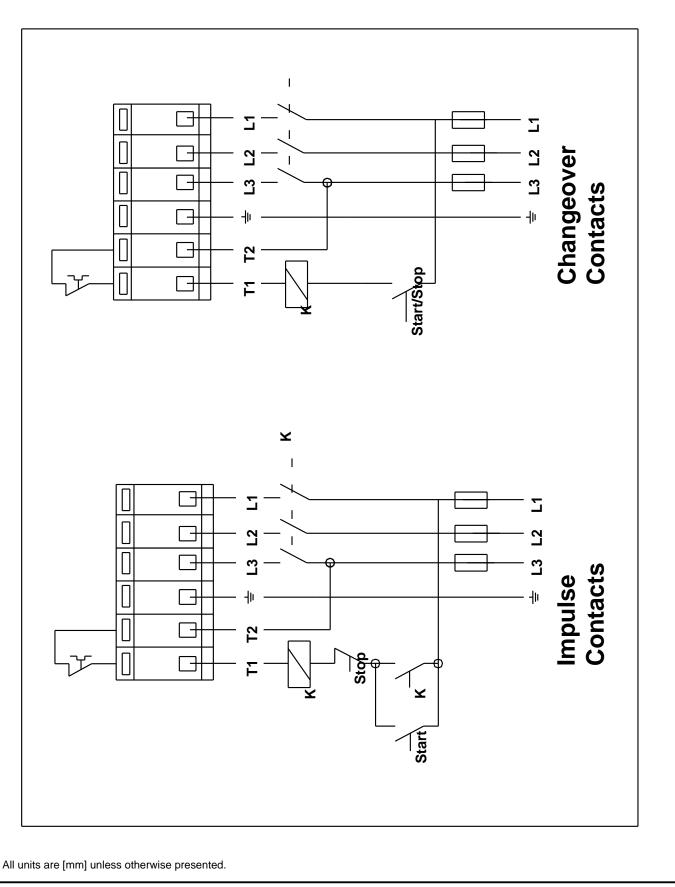
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96402789 UPS 40-160 F B 60 Hz





2/21/2018

Order Data:

Product name: UPS 40-160 F B Amount: 1 Product No.: 96402789

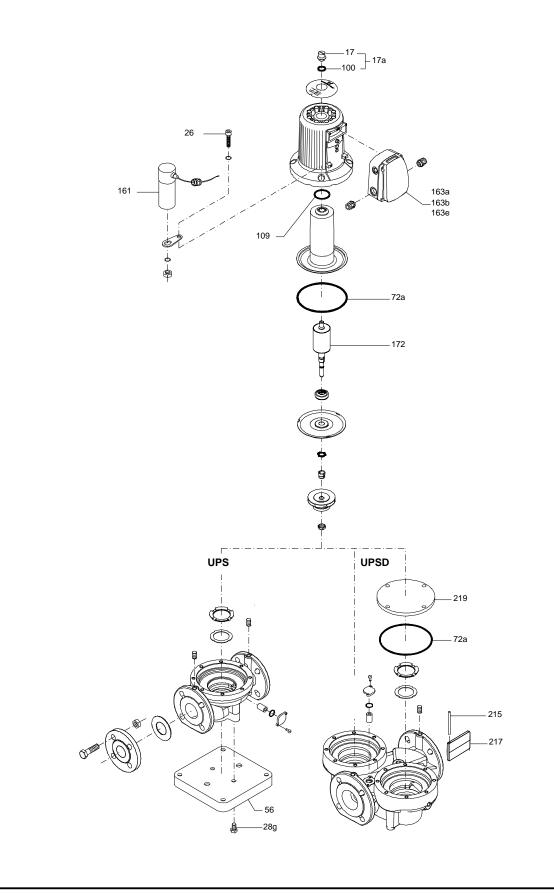
Total: Price on request



2/21/2018

Date:

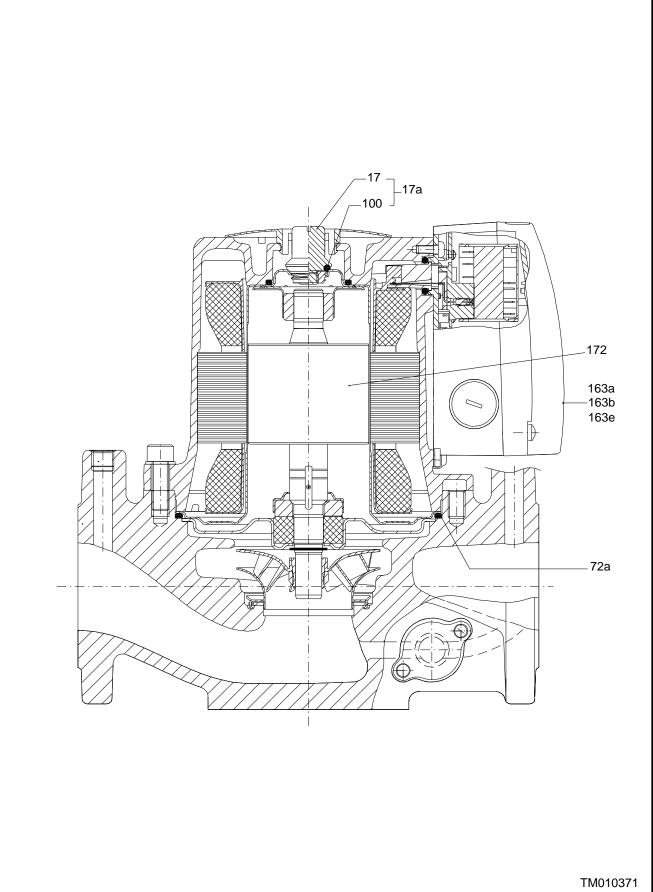






2/21/2018

Sectional drawing (TM010371 3905)





2/21/2018

Parts list UPS 40-160 F B, Prod number 96402789 Valid from 1.4.1995 (9513)

	Position	Description	Annotation	Classification data	Part No.	Count	Unit
-	50	Pump housing w/pipe plug				1	pcs
	6	Pump housing				1	
	19	Pipe plug				2	
	65	Neck ring				1	
	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