

TP 150-60/6-A-F-A-BAQE 400D 50HZ

Grundfos pump 96109985



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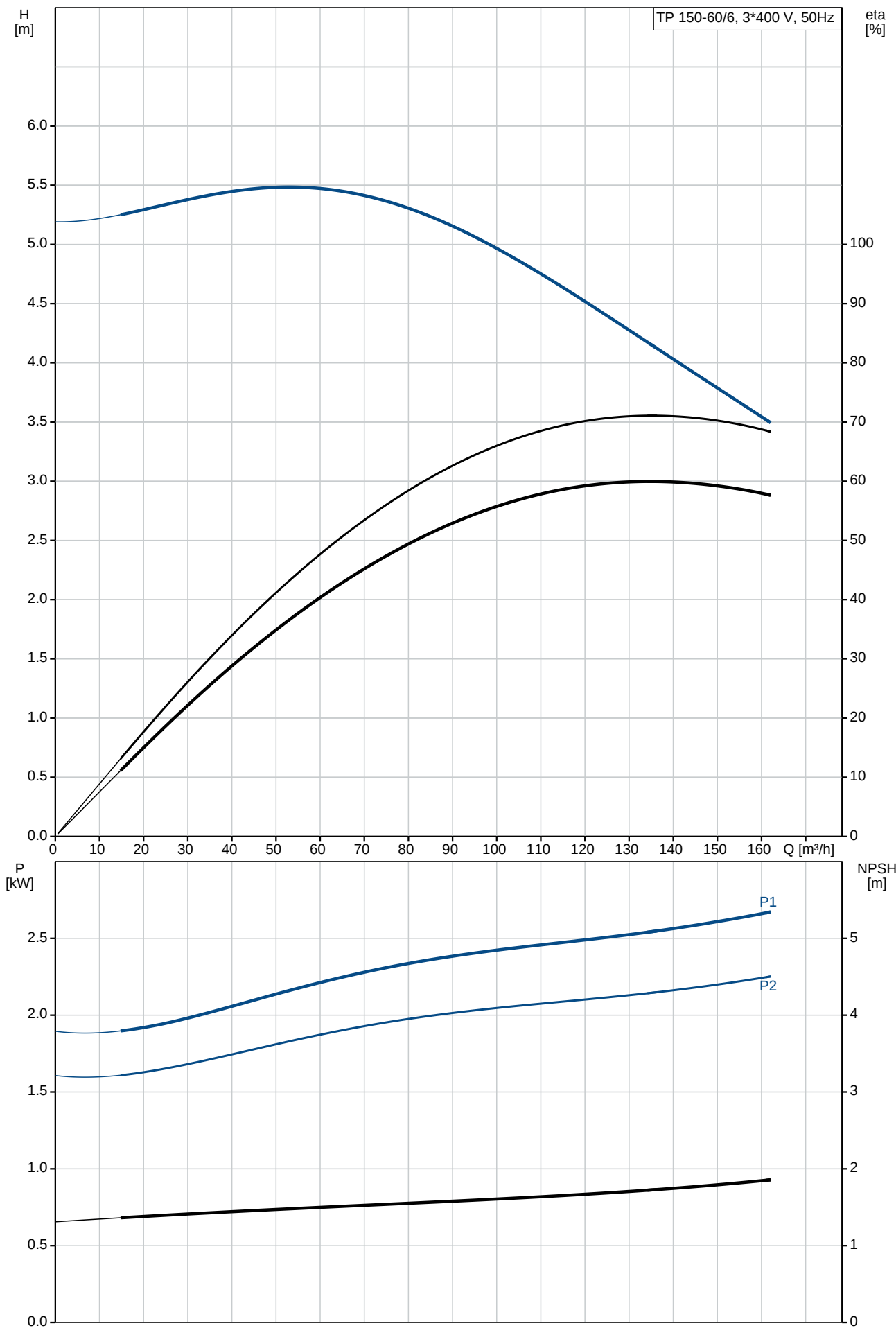
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Position	Qty.	Description
	1	TP 150-60/6 A-F-A-BAQE  Product No.: On request Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework. The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. Further product details Pump Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes: 1) Alkaline-based cleaning. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C.  1: Pump housing 2: Impeller 3: Stub shaft 4: Pump head/motor stool 5: Wear rings The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet side. The impeller is secured to the shaft with a nut. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. Primary seal: • Rotating seal ring material: carbon graphite, metal-impregnated • Stationary seat material: silicon carbide (SiC) This material pairing has a very good corrosion resistance and is especially suitable for water up to 120 °C. However, seal life will be reduced at temperatures above 90 °C. The material pairing is not recommended for liquids containing particles as this will result in heavy wear on the SiC face. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.

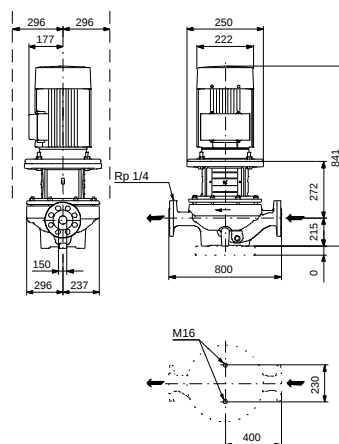
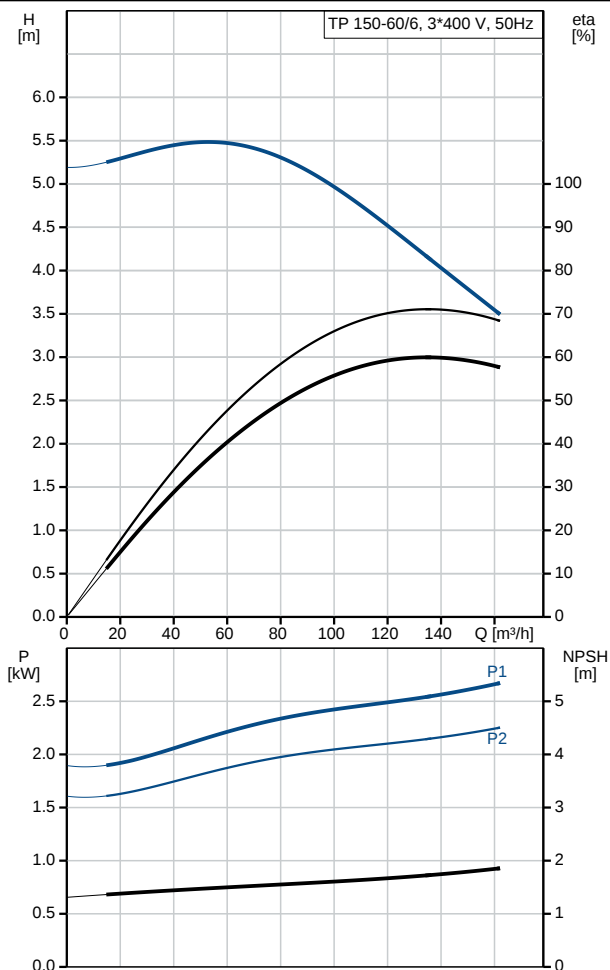
Position	Qty.	Description
		The flanges have tappings for mounting of pressure gauges. The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring. The central part of the motor stool is provided with guards for protection against the shaft and coupling. The pump shaft is fastened directly on the motor shaft with key and set screws. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034. The motor is flange-mounted with free-hole flange (FF). Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II). The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I₁/1). The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center. Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 136 m³/h Rated head: 4.09 m Actual impeller diameter: 200 mm Primary shaft seal: BAQE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Cast iron EN-JL1040 ASTM A48-40 B Impeller: Cast iron EN-JL1030 ASTM A48-30 B Installation: Range of ambient temperature: -20 .. 55 °C Maximum operating pressure: 16 bar Flange standard: DIN Pipe connection: DN 150 Pump inlet: DN 150 Pump outlet: DN 150 Pressure rating: PN 16 (@): 800 mm Flange size for motor: FF215 Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P₂: 2.2 kW Power (P₂) required by pump: 2.2 kW Mains frequency: 50 Hz

Position	Qty.	Description
		Rated voltage: 3 x 380-420D/660-725Y V Rated current: 5,30-4,80/3,00-2,80 A Starting current: 680-680 % Cos phi - power factor: 0.8 Rated speed: 970 rpm Efficiency: IE3 84,3% Motor efficiency at full load: 84.3-84.3 % Motor efficiency at 3/4 load: 84.9-84.9 % Motor efficiency at 1/2 load: 83.6-83.6 % Number of poles: 6 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI $\geq$ 0.62 ErP status: EuP Standalone/Prod. Net weight: 227 kg Gross weight: 260 kg Shipping volume: 1.12 m³

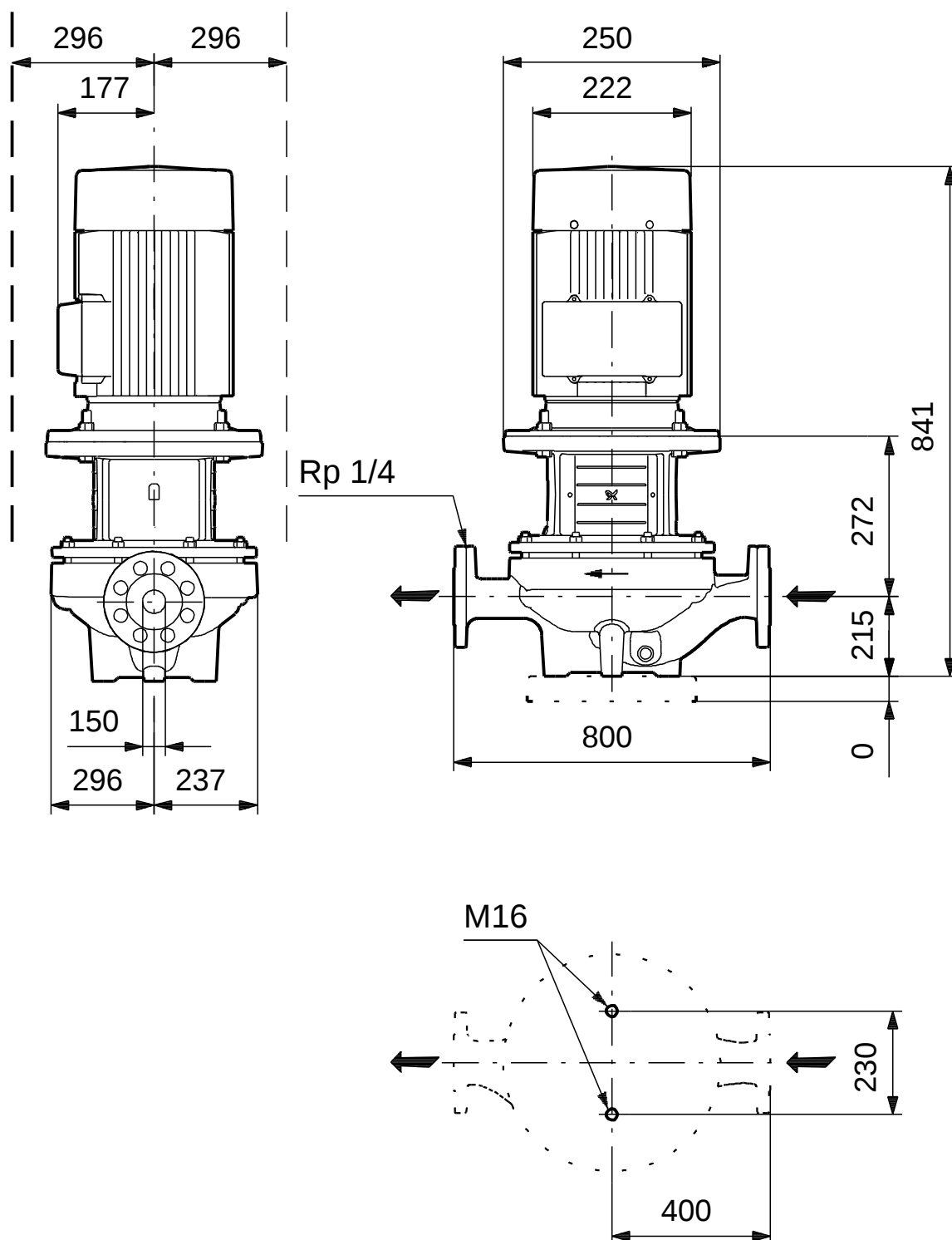
On request TP 150-60/6 A-F-A-BAQE 50 Hz



Description	Value
General information:	
Product name:	TP 150-60/6 A-F-A-BAQE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	136 m³/h
Rated head:	4.09 m
Head max:	60 dm
Actual impeller diameter:	200 mm
Primary shaft seal:	BAQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-20 .. 55 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 150
Pump inlet:	DN 150
Pump outlet:	DN 150
Pressure rating:	PN 16
(@)	800 mm
Flange size for motor:	FF215
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	2.2 kW
Power (P2) required by pump:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	5,30-4,80/3,00-2,80 A
Starting current:	680-680 %
Cos phi - power factor:	0.8
Rated speed:	970 rpm
Efficiency:	IE3 84,3%
Motor efficiency at full load:	84.3-84.3 %
Motor efficiency at 3/4 load:	84.9-84.9 %
Motor efficiency at 1/2 load:	83.6-83.6 %
Number of poles:	6
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	83W12208
Others:	
Minimum efficiency index, MEI ≥:	0.62
ErP status:	EuP Standalone/Prod.
Net weight:	227 kg
Gross weight:	260 kg
Shipping volume:	1.12 m³



On request TP 150-60/6 A-F-A-BAQE 50 Hz



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

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list TP 150-60/6, Product No. On request
Valid from 20.6.2010 (1024)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Motor				1	pcs
153	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
154	Ball bearing				1	
-	Nut				1	pcs
66	Washer		Designation: DIN 125 A2		1	
			Internal diameter: 19			
			Outer diameter: 34			
			Thickness: 3			
66a	Spring lock washer				1	
67	Nut		Thread: M18		1	
-	Motor stool cpl.				1	pcs
1a	Motor stool				1	
7	Coupling guard				2	
77a	Pan head screw				4	
-	Cover cpl.				1	pcs
36	Nut		Thread: M10		8	
77	Cover				1	
-	Pump housing cpl.				1	pcs
6	Pump housing				1	
19	Plug				1	
20	Plug				1	
66a	Nut		Thread: M12		10	
-	Shaft seal cpl.				1	pcs
72.a	O-ring		Diameter: 278,99		1	
			Material type: EPDM			
			Thickness: 3,53			
105	Shaft seal		Material type: BAQE		1	
105b	Spacer				1	
-	Shaft cpl.				1	pcs
9	Socket set screw		Length (mm): 6		2	
			Thread: M8			
11	Parallel key				1	
51	Stub shaft				1	
19	Plug				2	pcs
49	Impeller				1	pcs
105b	Spacer				1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

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