

Inventflow: Grundfos A-partner

Grundfos NB 125-500/421 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-125-500-421-af2abqqe>

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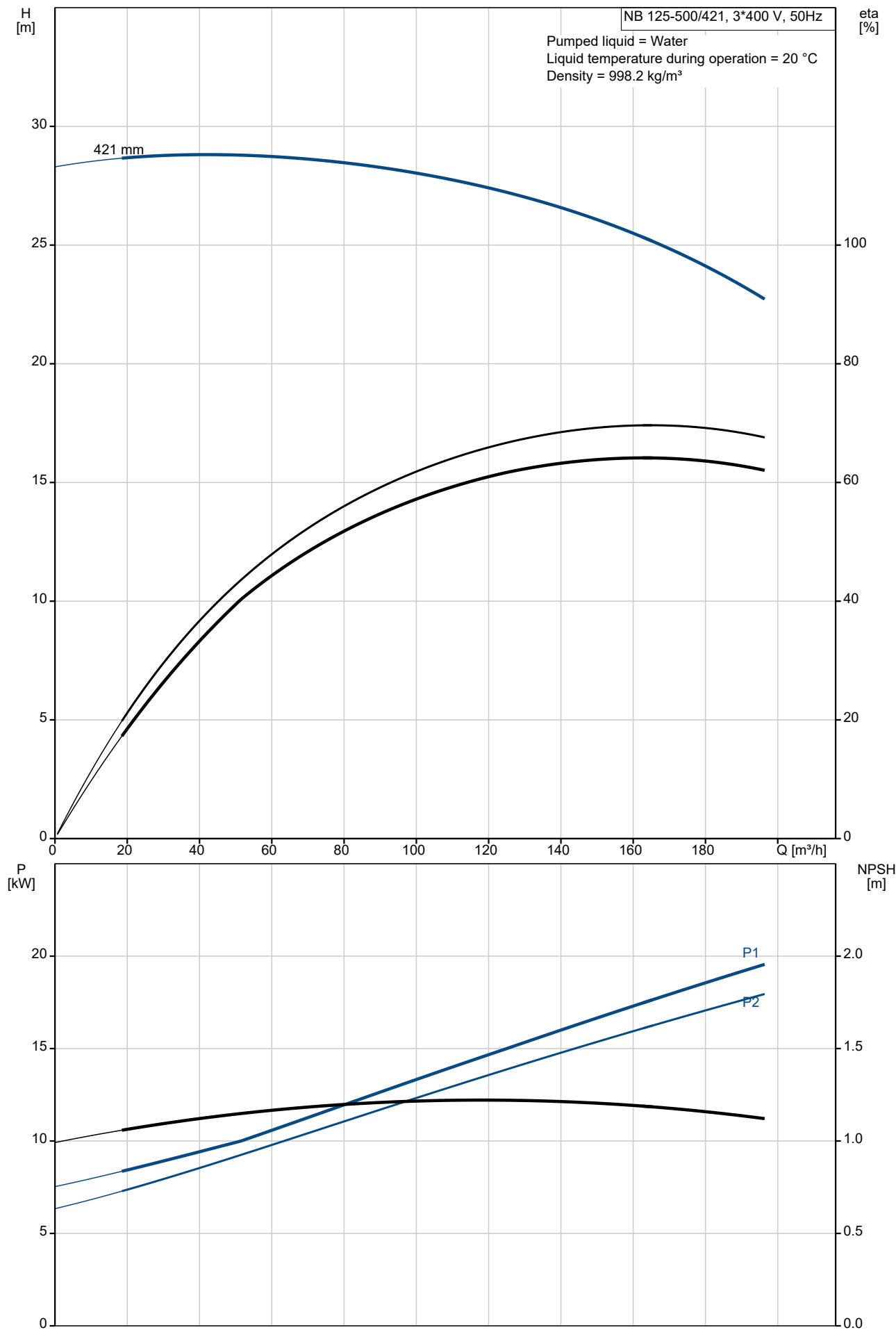
Datasheet



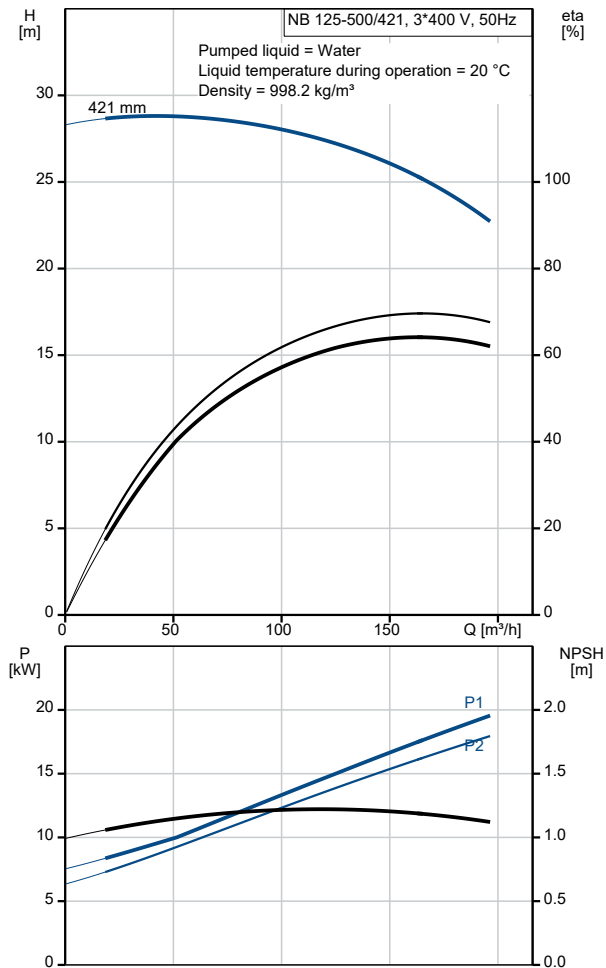
Qty.	Description
1	NB 125-500/421 AF2ABQQE  Product No.: 98974812 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. The pump is directly coupled with an Phase: IEC-flanged 3-phase AC motor. The impeller is hydraulically as well as dynamically balanced. The pump has the following characteristics: - flange dimensions according to EN 1092-2, Pump housing: - Cast iron volute pump housing, - stainless steel shaft Impeller: and Cast iron impeller and bronze wear rings, - unbalanced mechanical shaft seal according to EN 12756. Controls: Frequency converter: NONE Pressure sensor: N Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 980 rpm Rated flow: 166.7 m³/h Rated head: 24.91 m Actual impeller diameter: 421 mm Nominal impeller diameter: 500 Shaft seal arrangement: Single Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Bearing design: Standard Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Wear ring: Brass Impeller: Cast iron

Qty.	Description
	EN-GJL-200 ASTM class 30 Shaft: Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CED Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 150 Size of outlet connection: DN 125 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block: N Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 38,0-36,5/22,0-21,0 A Starting current: 560-560 % Cos phi - power factor: 0.79 Rated speed: 980 rpm Efficiency: IE3 91,7% Motor efficiency at full load: 91.7-91.7 % Motor efficiency at 3/4 load: 92.5-92.5 % Motor efficiency at 1/2 load: 92.5-92.5 % Number of poles: 6 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 83W15428 Others: Minimum efficiency index, MEI ≥: 0.50 Net weight: 605 kg Gross weight: 686 kg Shipping volume: 1.6 m³ Country of origin: HU Custom tariff no.: 84137051

98974812 NB 125-500/421 AF2ABQQE 50 Hz

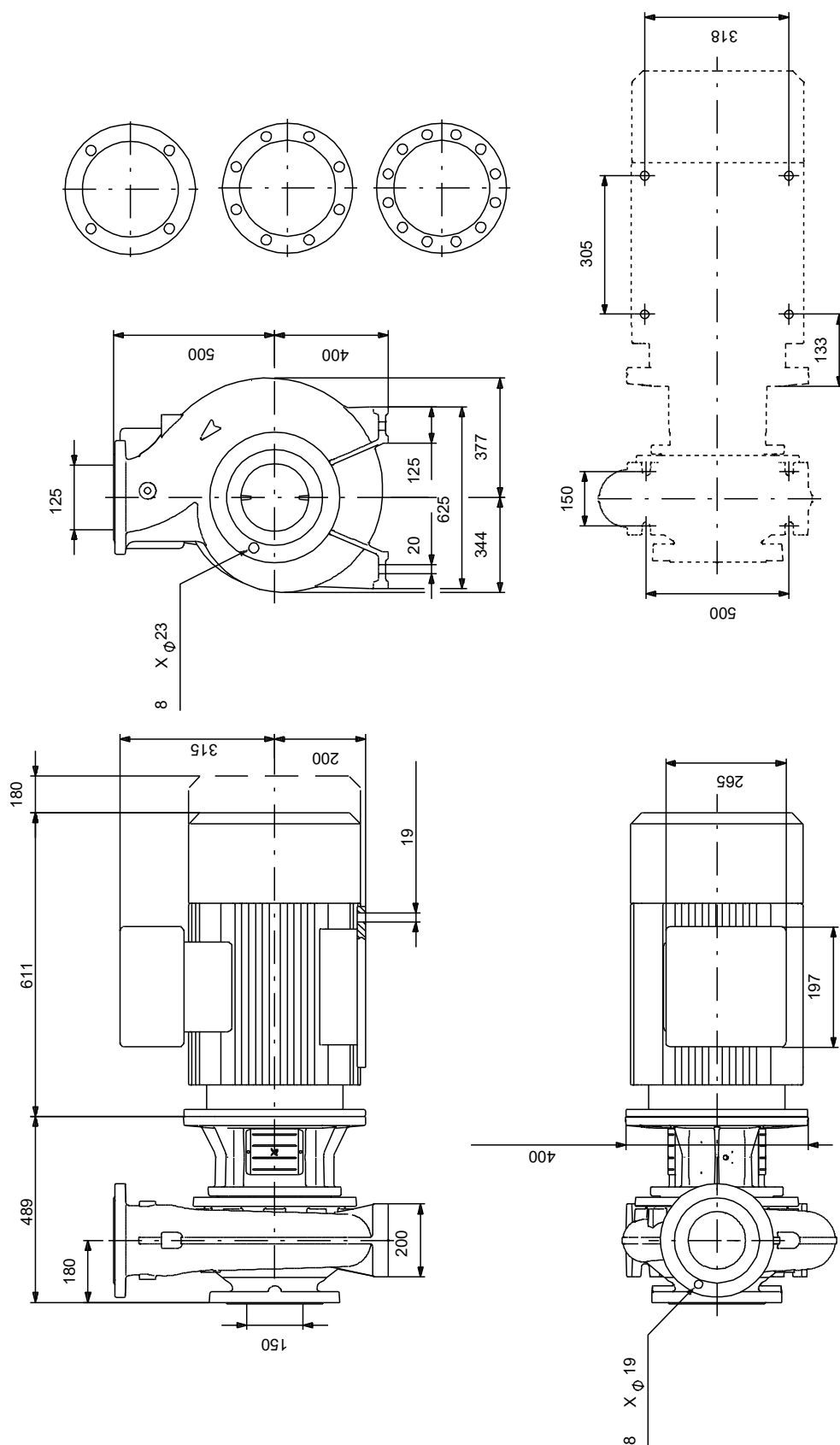


Description	Value
General information:	
Product name:	NB 125-500/421 AF2ABQQE
Product No:	98974812
EAN number:	5712604531556
Technical:	
Pump speed on which pump data are based:	980 rpm
Rated flow:	166.7 m³/h
Rated head:	24.91 m
Actual impeller diameter:	421 mm
Nominal impeller diameter:	500
Shaft seal arrangement:	Single
Shaft diameter:	60 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Bearing design:	Standard
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Internal pump house coating:	CED
Material code:	A
Code for rubber:	E
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 150
Size of outlet connection:	DN 125
Pressure rating for connection:	PN 16
Bearing lubrication:	Grease
Pump housing with feet:	Yes
Support block:	N
Connect code:	F2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	38,0-36,5/22,0-21,0 A
Starting current:	560-560 %
Cos phi - power factor:	0.79
Rated speed:	980 rpm
Efficiency:	IE3 91,7%
Motor efficiency at full load:	91.7-91.7 %
Motor efficiency at 3/4 load:	92.5-92.5 %
Motor efficiency at 1/2 load:	92.5-92.5 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55



Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	83W15428
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.50
Net weight:	605 kg
Gross weight:	686 kg
Shipping volume:	1.6 m ³
Country of origin:	HU
Custom tariff no.:	84137051

98974812 NB 125-500/421 AF2ABQQE 50 Hz



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

Spare parts NB 125-500/421, Product No. 98974812
Produced After 2101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Bulk, Nut			92514635	1	pcs
67	Nut		Thread: M33		5	
-	Bulk, o-ring			92547639	1	pcs
72a	O-ring		Material type: EPDM		5	
-	Bulk, Plug vent			96620482	1	pcs
18	Plug				5	
-	Bulk, Shaft seal			92514397	1	pcs
105	Shaft seal				5	
-	Kit, Bushing for motor			96306482	1	pcs
8.a	Bushing				1	
9	Socket set screw		Length (mm): 10		2	
			Thread: M8			
23	Hex socket head cap screw		Designation: DIN912		6	
			Length (mm): 20			
			Thread: M8			
-	Kit, coupling guard			96956222	1	pcs
7a	Pan head screw				4	
7	Coupling guard				2	
-	Kit, cover			98990977	1	pcs
18	Plug				1	
36a	Nut		Thread: M16		16	
36	Hex nut		Thread: M16		14	
77	Cover				1	
-	Kit, motor stool			96935203	1	pcs
1.a	Motor stool				1	
7	Coupling guard				2	
28	Hex head screw				4	
36	Hex nut		Thread: M16		18	
76a	Rivet				2	
77a	Pan head screw				4	
-	Kit, nut			96939137	1	pcs
11	Parallel key				2	
-	67 Nut				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M33		1	
-	Kit, pump housing			96930842	1	pcs
6	Pump housing				1	
20	Plug				2	
36	Nut		Thread: M16		16	
-	Kit, pump shaft			96847128	1	pcs
11	Parallel key				2	
23	Hex socket head cap screw		Designation: DIN912		6	
			Length (mm): 20			
			Thread: M8			
51	Pump shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M33		1	
-	Spare, O-ring			97757679	1	pcs
72a	O-ring		Material type: EPDM		1	
-	Spare, plug vent			98164277	1	pcs
18	Plug				1	
-	Spare, shaft seal			98434945	1	pcs
105	Shaft seal				1	
-	Spare, wear ring			99208792	1	pcs
45	Wear ring				1	
-	Motor				1	pcs
156	Kit, fan			98505758	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
151	Kit, fan cover			98062275	1	
	Kit, lubrication nipple			98062531	1	
176	Kit, terminal board			98062236	1	
164a	Kit, terminal box			98062262	1	