

Inventflow: Grundfos A-partner

Grundfos NB 80-400/438 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-80-400-438-af2abqqe>

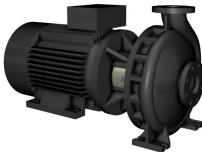
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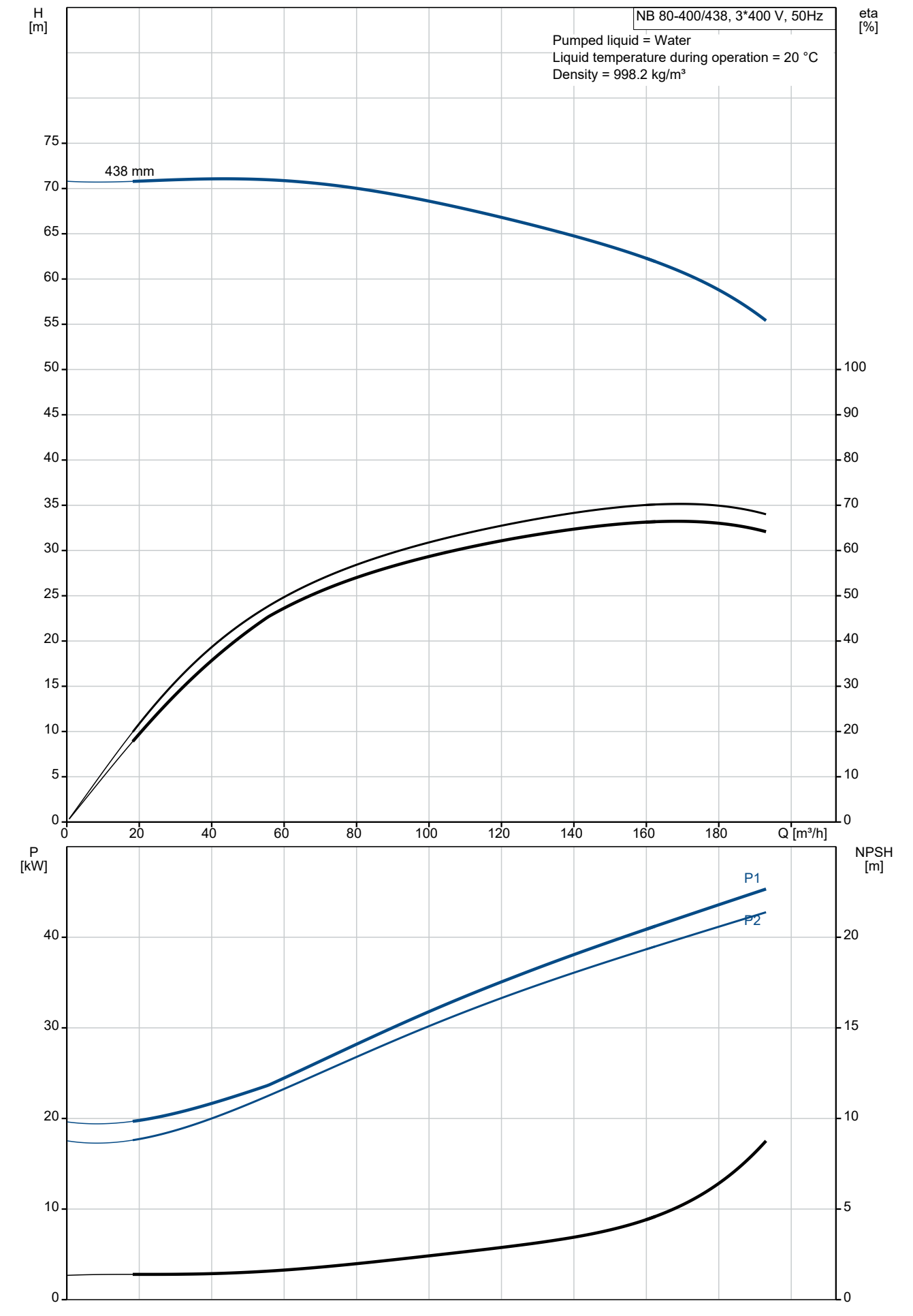
Datasheet



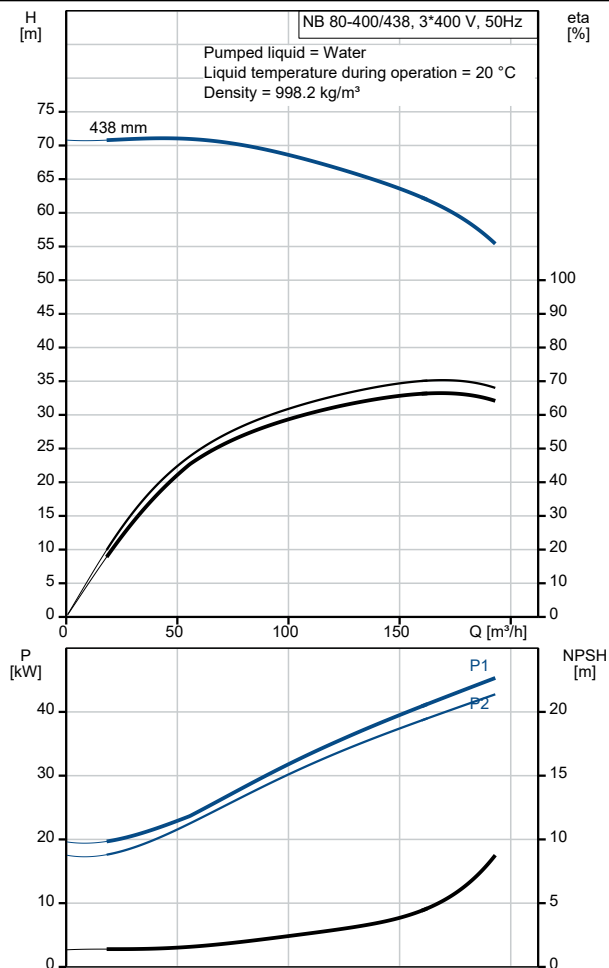
Qty.	Description
1	NB 80-400/438 AF2ABQQE  Product No.: 98622168 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. The pump is directly coupled with 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: 1480 rpm Rated flow: 175.9 m³/h Rated head: 59.18 m Actual impeller diameter: 438 mm Nominal impeller diameter: 400 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 100 Size of outlet connection: DN 80 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: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 83,0-77,0/48,0-44,5 A Starting current: 640-640 % Cos phi - power factor: 0.9 Rated speed: 1480 rpm Efficiency: IE3 94,2% Motor efficiency at full load: 94.2-94.2 % Motor efficiency at 3/4 load: 94.9-94.9 % Motor efficiency at 1/2 load: 95.1-95.1 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99032214 Others: Minimum efficiency index, MEI ≥: 0.44 Net weight: 513 kg Gross weight: 572 kg Shipping volume: 1.11 m³ Country of origin: HU Custom tariff no.: 84137051

98622168 NB 80-400/438 AF2ABQQE 50 Hz

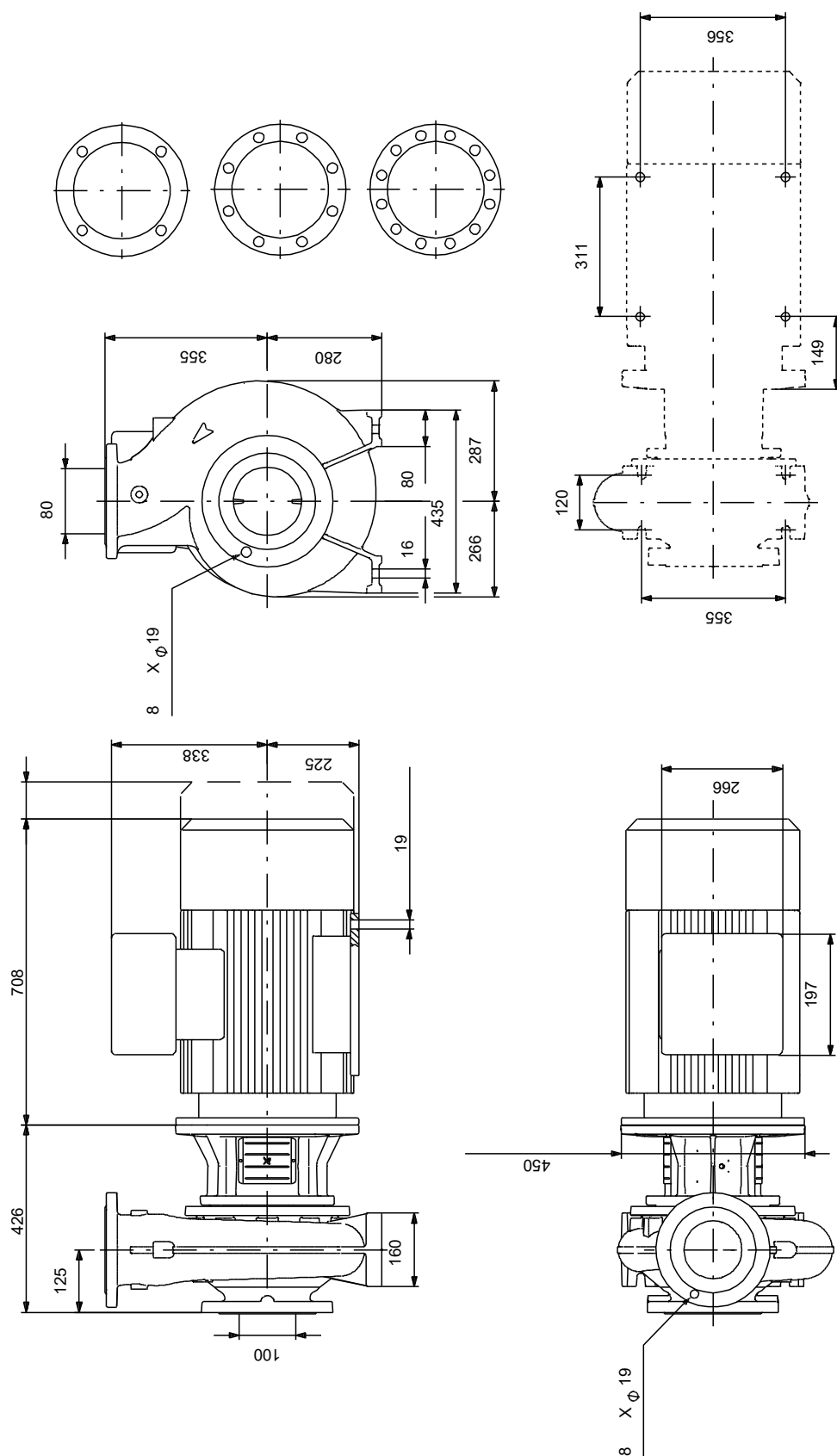


Description	Value
General information:	
Product name:	NB 80-400/438 AF2ABQQE
Product No:	98622168
EAN number:	5711498396708
Technical:	
Pump speed on which pump data are based:	1480 rpm
Rated flow:	175.9 m³/h
Rated head:	59.18 m
Actual impeller diameter:	438 mm
Nominal impeller diameter:	400
Shaft seal arrangement:	Single
Shaft diameter:	42 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 100
Size of outlet connection:	DN 80
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:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	83,0-77,0/48,0-44,5 A
Starting current:	640-640 %
Cos phi - power factor:	0.9
Rated speed:	1480 rpm
Efficiency:	IE3 94,2%
Motor efficiency at full load:	94.2-94.2 %
Motor efficiency at 3/4 load:	94.9-94.9 %
Motor efficiency at 1/2 load:	95.1-95.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55



Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99032214
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.44
Net weight:	513 kg
Gross weight:	572 kg
Shipping volume:	1.11 m ³
Country of origin:	HU
Custom tariff no.:	84137051

98622168 NB 80-400/438 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 80-400/438, Product No. 98622168
Produced After 2101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Bulk, Nut			92514632	1	pcs
67	Nut		Thread: M24		5	
-	Bulk, o-ring			92547638	1	pcs
72a	O-ring		Diameter: 66		5	
			Material type: RUBBER			
			Thickness: 3,53			
-	Bulk, Plug vent			96620482	1	pcs
18	Plug				5	
-	Bulk, Shaft seal			92514334	1	pcs
105	Shaft seal				5	
-	Kit, coupling guard			96809946	1	pcs
7a	Pan head screw				4	
7	Coupling guard				2	
-	Kit, cover			98990974	1	pcs
18	Plug				1	
36	Nut		Thread: M12		10	
77	Cover				1	
-	Kit, motor stool			96935195	1	pcs
1.a	Motor stool				1	
7	Coupling guard				2	
28	Hex head screw				8	
36	Hex nut		Thread: M16		12	
36	Nut		Thread: M12		10	
76a	Rivet				2	
77a	Pan head screw				4	
-	Kit, nut			96939132	1	pcs
11	Key				1	
-	36	Nut			1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M24		1	
-	Kit, pump housing			96930830	1	pcs
6	Pump housing				1	
20	Plug				2	
36	Nut		Thread: M12		16	
-	Kit, stub shaft			99248523	1	pcs
11	Key				1	
51	Stub shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M25		1	
89.a	Socket set screw		Length (mm): 10		3	
			Thread: M8			
-	Spare, O-ring			97757676	1	pcs
72a	O-ring		Diameter: 66		1	
			Material type: RUBBER			
			Thickness: 3,53			
-	Spare, plug vent			98164277	1	pcs
18	Plug				1	
-	Spare, shaft seal			98434909	1	pcs
105	Shaft seal				1	
-	Spare, wear ring			99208807	1	pcs
45	Wear ring				1	
	Motor				1	pcs