

Inventflow: Grundfos A-partner

Grundfos NB 80-315/278 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-80-315-278-af2abqqe>

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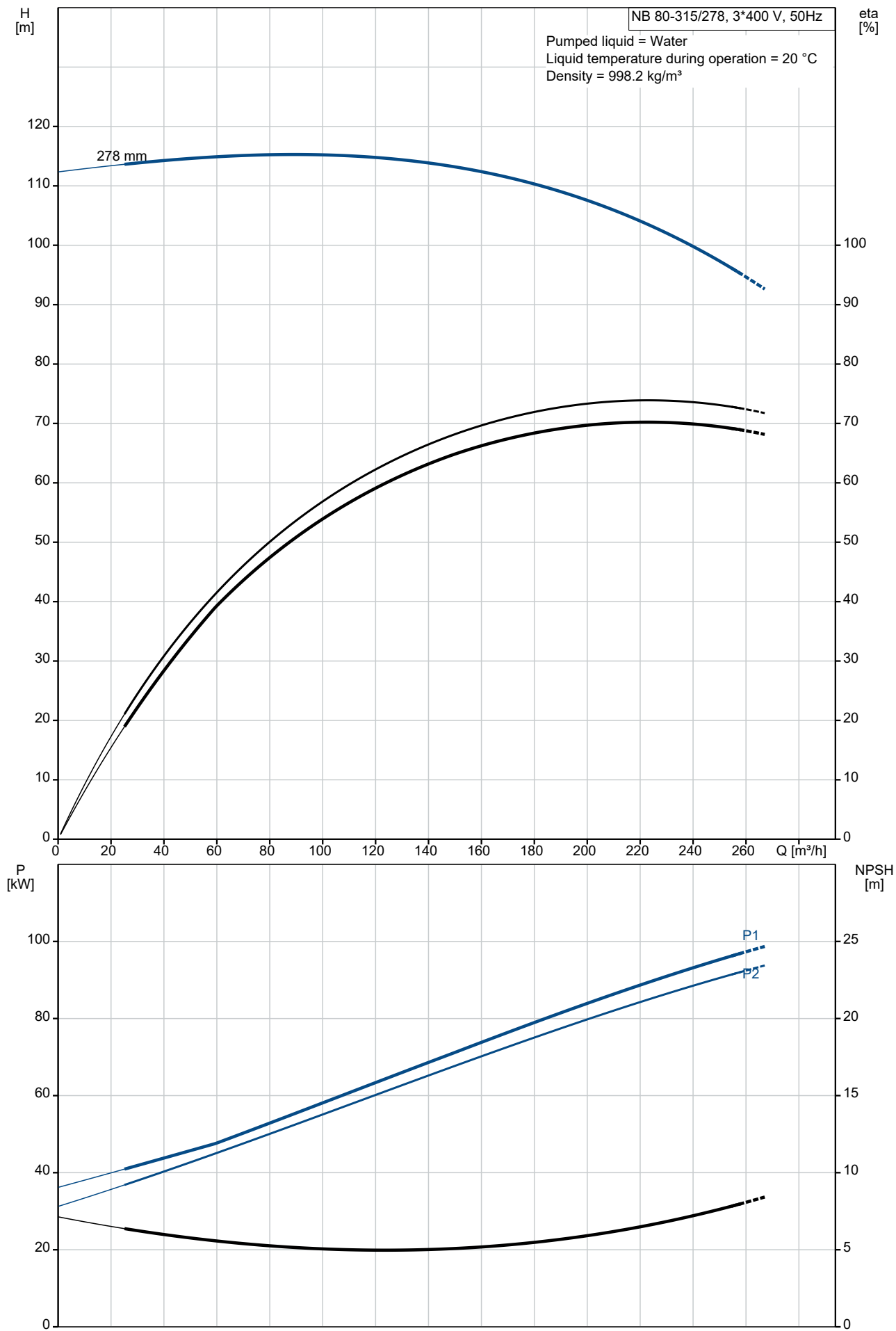
Datasheet



Qty.	Description
1	NB 80-315/278 AF2ABQQE  Product No.: 98844382 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: 2975 rpm Rated flow: 221.9 m³/h Rated head: 103.6 m Actual impeller diameter: 278 mm Nominal impeller diameter: 315 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

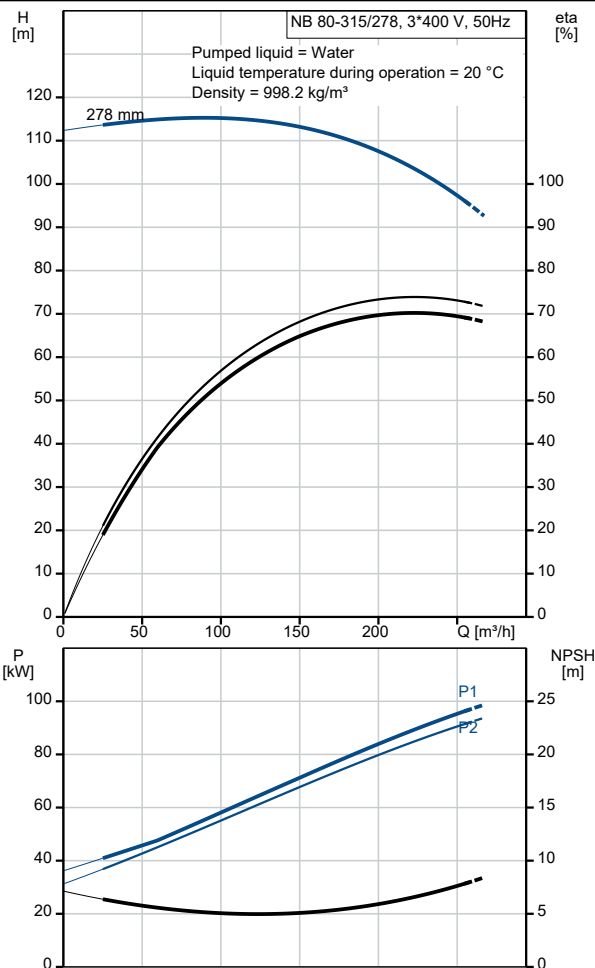
Qty.	Description
	EN-GJL-200 ASTM class 30 Shaft: Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CED Installation: Maximum ambient temperature: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 100 Size of outlet connection: DN 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: 90 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 159-147/92,0-85,0 A Starting current: 720-720 % Cos phi - power factor: 0.90 Rated speed: 2975 rpm Efficiency: IE3 95,0% Motor efficiency at full load: 95.0-95.0 % Motor efficiency at 3/4 load: 95.1-95.1 % Motor efficiency at 1/2 load: 94.6-94.6 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 83U15442 Others: Minimum efficiency index, MEI ≥: 0.68 Net weight: 753 kg Gross weight: 778 kg Shipping volume: 0.848 m³ Country of origin: HU Custom tariff no.: 84137051

98844382 NB 80-315/278 AF2ABQQE 50 Hz



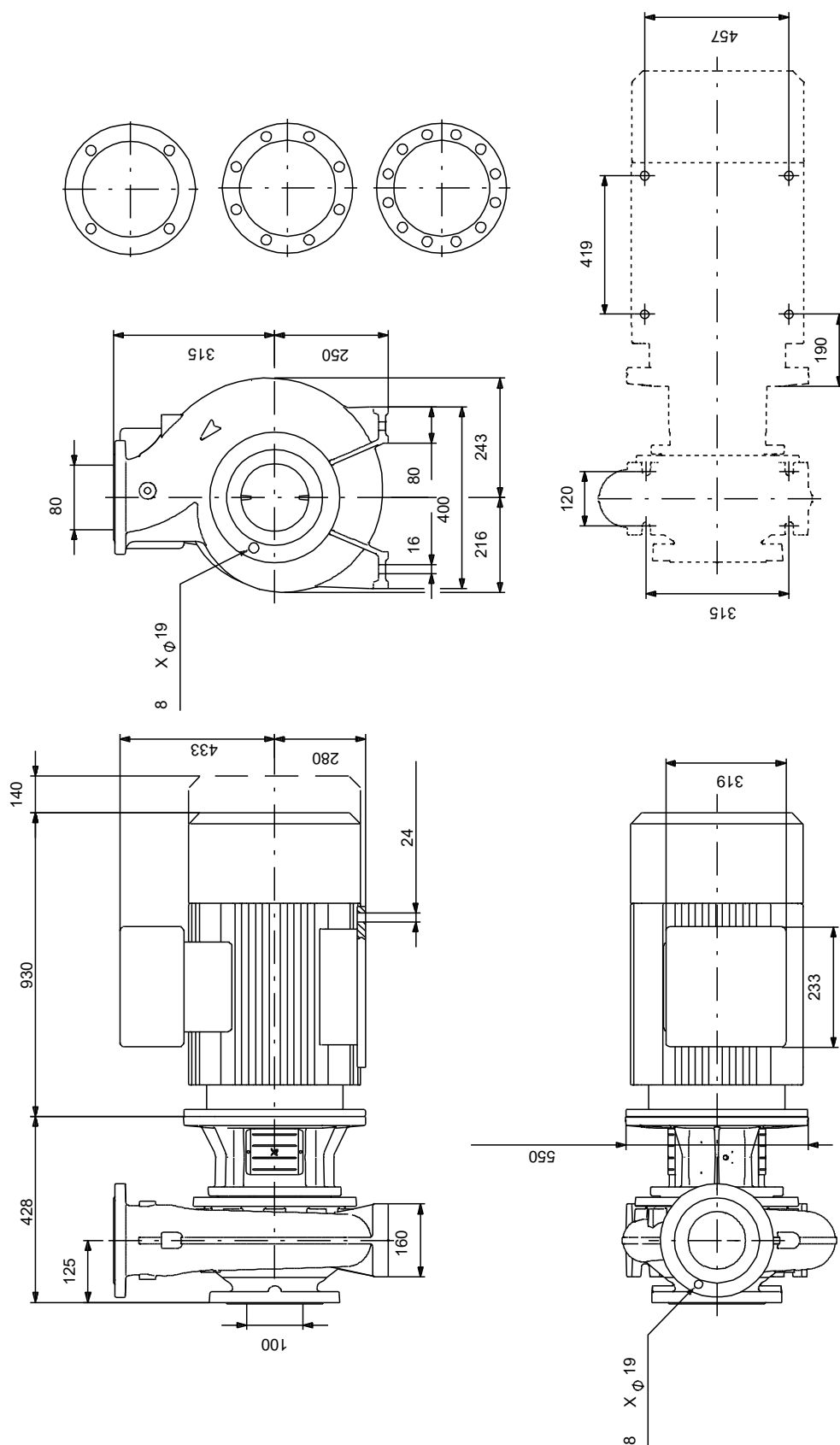
Description	Value
General information:	
Product name:	NB 80-315/278 AF2ABQQE
Product No:	98844382
EAN number:	5712602269796
Technical:	
Pump speed on which pump data are based:	2975 rpm
Rated flow:	221.9 m³/h
Rated head:	103.6 m
Actual impeller diameter:	278 mm
Nominal impeller diameter:	315
Shaft seal arrangement:	Single
Shaft diameter:	32 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:	90 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	159-147/92,0-85,0 A
Starting current:	720-720 %
Cos phi - power factor:	0.90
Rated speed:	2975 rpm
Efficiency:	IE3 95,0%
Motor efficiency at full load:	95.0-95.0 %
Motor efficiency at 3/4 load:	95.1-95.1 %
Motor efficiency at 1/2 load:	94.6-94.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55

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Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	83U15442
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.68
Net weight:	753 kg
Gross weight:	778 kg
Shipping volume:	0.848 m ³
Country of origin:	HU
Custom tariff no.:	84137051

98844382 NB 80-315/278 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 80-315/278, Product No. 98844382
Produced After 2101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Bulk, Nut			92514631	1	pcs
67	Nut		Thread: M18		5	
-	Bulk, o-ring			92547632	1	pcs
72a	O-ring		Diameter: 329,79		5	
			Material type: EPDM			
			Thickness: 3,53			
-	Bulk, Plug vent			96620482	1	pcs
18	Plug				5	
-	Bulk, Shaft seal			92514302	1	pcs
105	Shaft seal				5	
-	Kit, coupling guard			96956222	1	pcs
7a	Pan head screw				4	
7	Coupling guard				2	
-	Kit, cover			98990966	1	pcs
18	Plug				1	
36	Nut		Thread: M12		14	
36	Nut		Thread: M10		8	
77	Cover				1	
-	Kit, motor stool			96935187	1	pcs
1.a	Motor stool				1	
7	Coupling guard				2	
28	Hex head screw				4	
36	Hex nut		Thread: M16		4	
36	Nut		Thread: M10		8	
76a	Rivet				2	
77a	Pan head screw				4	
-	Kit, nut			96939130	1	pcs
11	Parallel key				1	
-	36 Nut				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M18		1	
-	Kit, pump housing			95131732	1	pcs
-	6 Pump housing				1	
26	Staybolt		Length (mm): 40		14	
			Thread: M12			
45	Wear ring				1	
20	Pipe plug		Thread: R 3/8		2	
36	Nut		Thread: M12		14	
-	Kit, stub shaft			99149649	1	pcs
11	Parallel key				1	
51	Stub shaft				1	
66a	Spring lock washer				1	
66	Washer		Designation: DIN 125 A2		1	
			Internal diameter: 19			
			Outer diameter: 34			
			Thickness: 3			
67	Nut		Thread: M18		1	
89.a	Socket set screw		Length (mm): 10		3	
			Thread: M8			
+	Spare, O-ring			97757675	1	pcs
-	Spare, plug vent			98164277	1	pcs
18	Plug				1	
-	Spare, shaft seal			98434906	1	pcs
105	Shaft seal				1	
-	Spare, spacer for shaft seal			96591277	1	pcs
105b	Spacer				1	
-	Spare, wear ring			99208810	1	pcs
45	Wear ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Motor				1	pcs
151	Kit, fan cover			99018554	1	
	Kit, lubrication nipple			98360052	1	
176	Kit, terminal board			98062239	1	
164a	Kit, terminal box			98062264	1	
156	Spare, motor fan			96766463	1	
49	Impeller			99150246	1	pcs