

Inventflow: Grundfos A-partner

Grundfos NB 40-125/142 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-40-125-142-af2abqqe>

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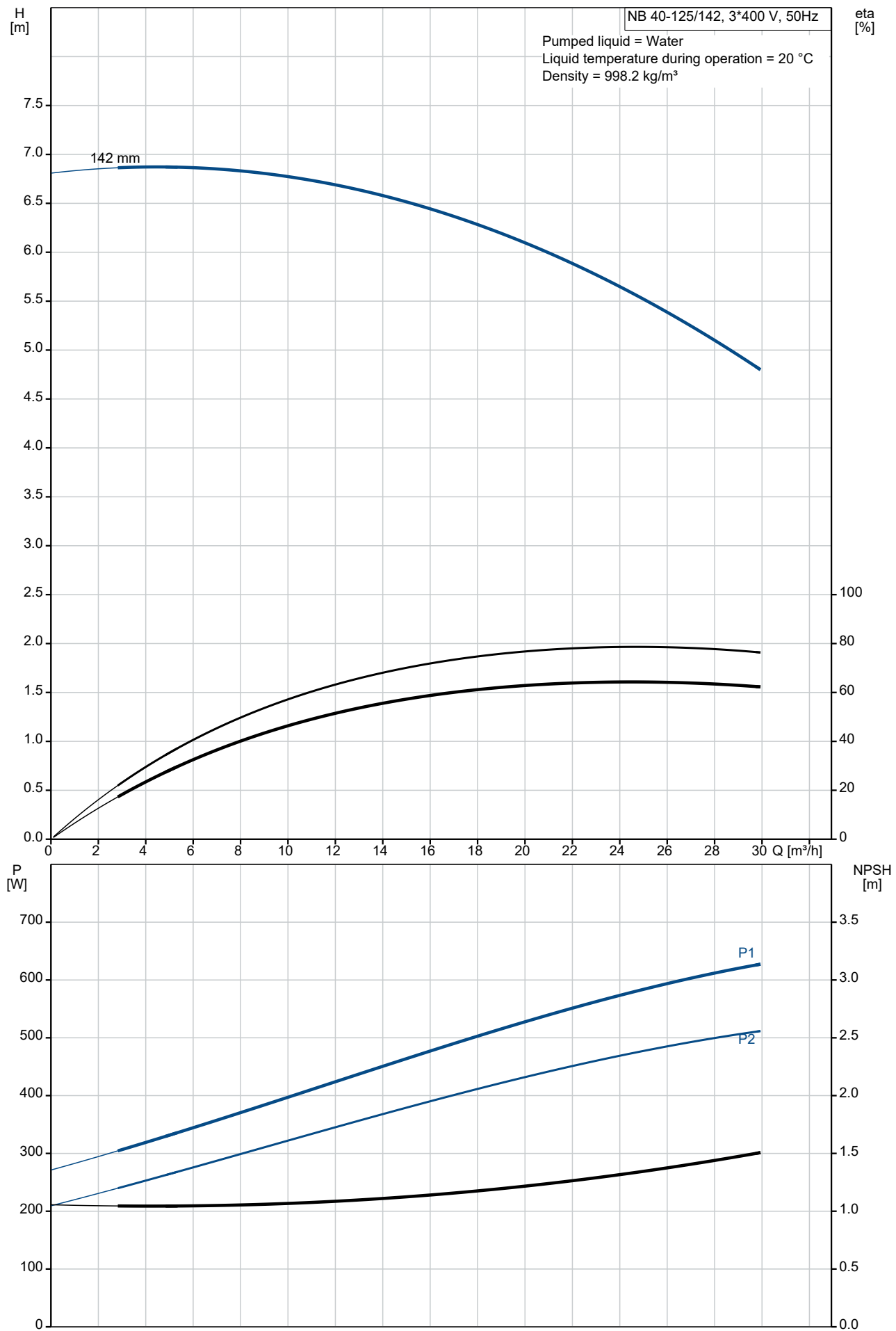
Datasheet



Qty.	Description
1	NB 40-125/142 AF2ABQQE  Product No.: 96546730 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: 1440 rpm Rated flow: 24.73 m³/h Rated head: 5.424 m Actual impeller diameter: 142 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 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 65 Size of outlet connection: DN 40 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: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V Rated current: 2,31-2,09/1,32-1,2 A Starting current: 590-590 % Cos phi - power factor: 0.78 Rated speed: 1440 rpm Efficiency: IE3 80,8% Motor efficiency at full load: 80.8-80.8 % Motor efficiency at 3/4 load: 81.1-81.1 % Motor efficiency at 1/2 load: 79.3-79.3 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99900485 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 36 kg Gross weight: 46 kg Shipping volume: 0.134 m³ Country of origin: HU Custom tariff no.: 84137051

96546730 NB 40-125/142 AF2ABQQE 50 Hz



Description	Value		
General information:			
Product name:	NB 40-125/142 AF2ABQQE		
Product No:	96546730		
EAN number:	5700398530688		
Technical:			
Pump speed on which pump data are based:	1440 rpm		
Rated flow:	24.73 m³/h		
Rated head:	5.424 m		
Actual impeller diameter:	142 mm		
Nominal impeller diameter:	125		
Shaft seal arrangement:	Single		
Shaft diameter:	24 mm		
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B2		
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 65		
Size of outlet connection:	DN 40		
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:	0.55 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 220-240D/380-420Y V		
Rated current:	2,31-2,09/1,32-1,2 A		
Starting current:	590-590 %		
Cos phi - power factor:	0.78		
Rated speed:	1440 rpm		
Efficiency:	IE3 80,8%		
Motor efficiency at full load:	80.8-80.8 %		
Motor efficiency at 3/4 load:	81.1-81.1 %		
Motor efficiency at 1/2 load:	79.3-79.3 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		

Performance Graphs:

Head (H) vs. Flow (Q):

Y-axis: H [m] (0 to 7.5)
X-axis: Q [m³/h] (0 to 30)

Curve: 142 mm

Operating point: Q = 24.73 m³/h, H = 5.424 m

Efficiency (eta) vs. Flow (Q):

Y-axis: eta [%] (0 to 100)
X-axis: Q [m³/h] (0 to 30)

Operating point: Q = 24.73 m³/h, eta = 80.8%

Power (P) vs. Flow (Q):

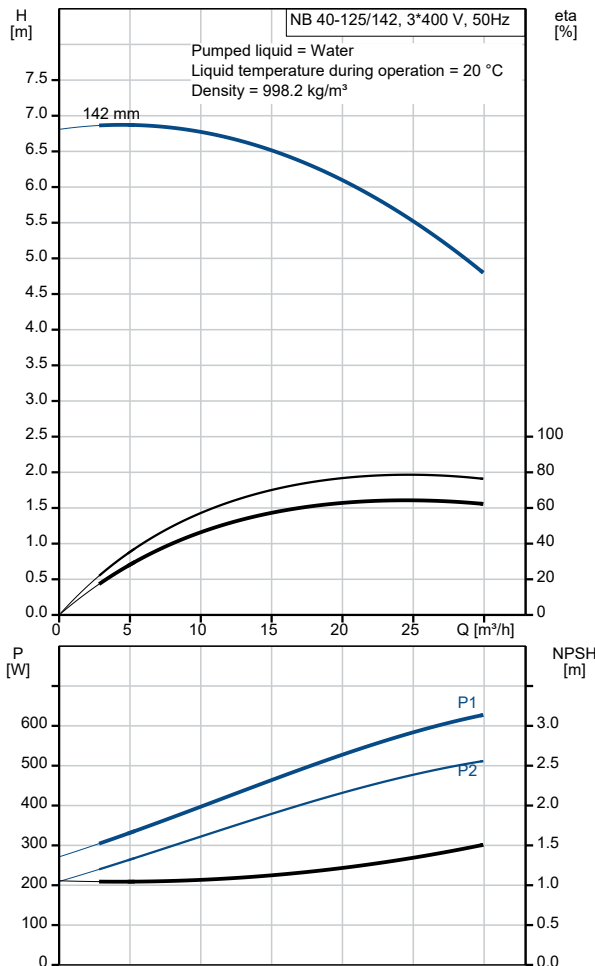
Y-axis: P [W] (0 to 600)
X-axis: Q [m³/h] (0 to 30)

Operating point: Q = 24.73 m³/h, P = 375 W

NPSH vs. Flow (Q):

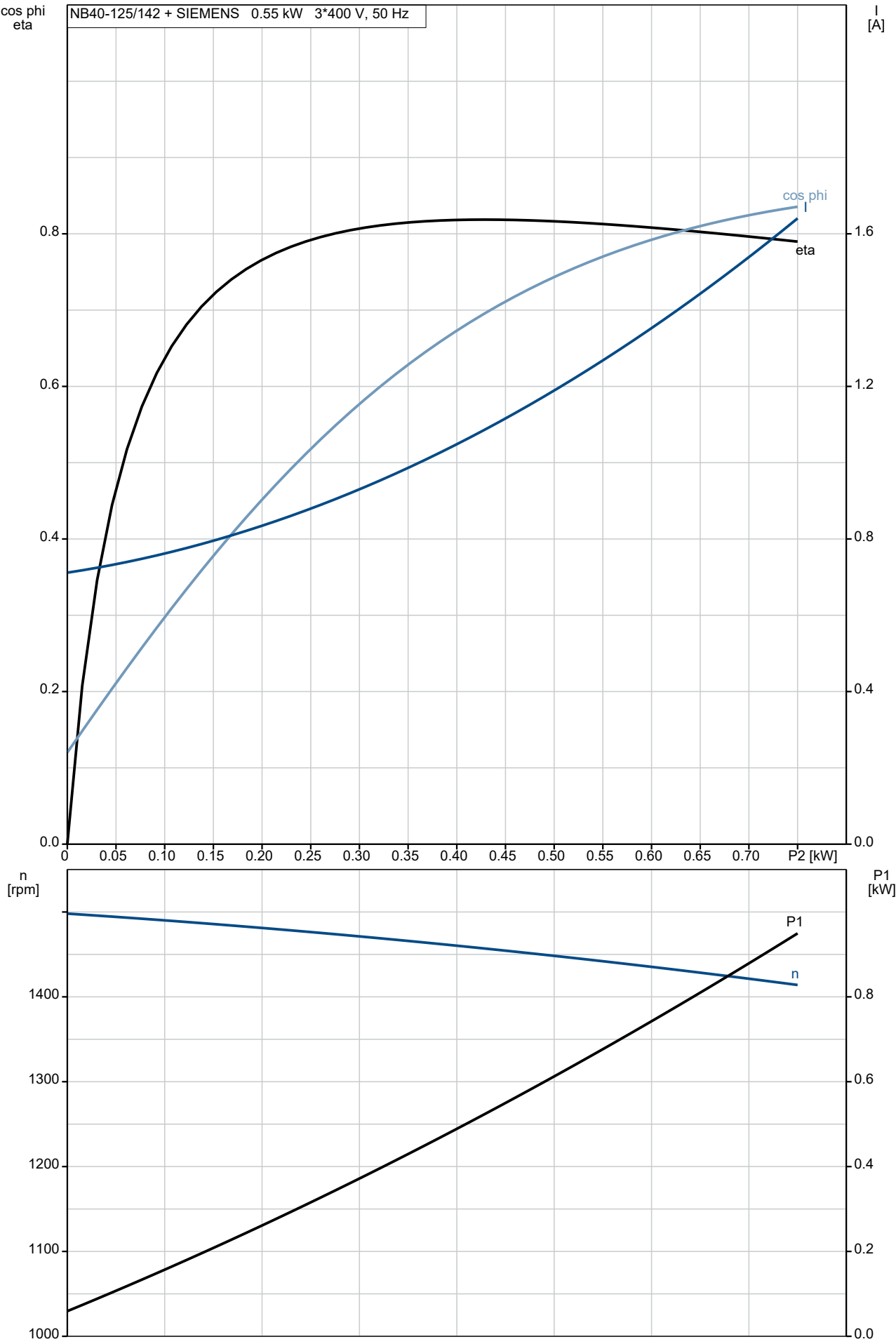
Y-axis: NPSH [m] (0 to 3.0)
X-axis: Q [m³/h] (0 to 30)

Operating point: Q = 24.73 m³/h, NPSH = 1.0 m

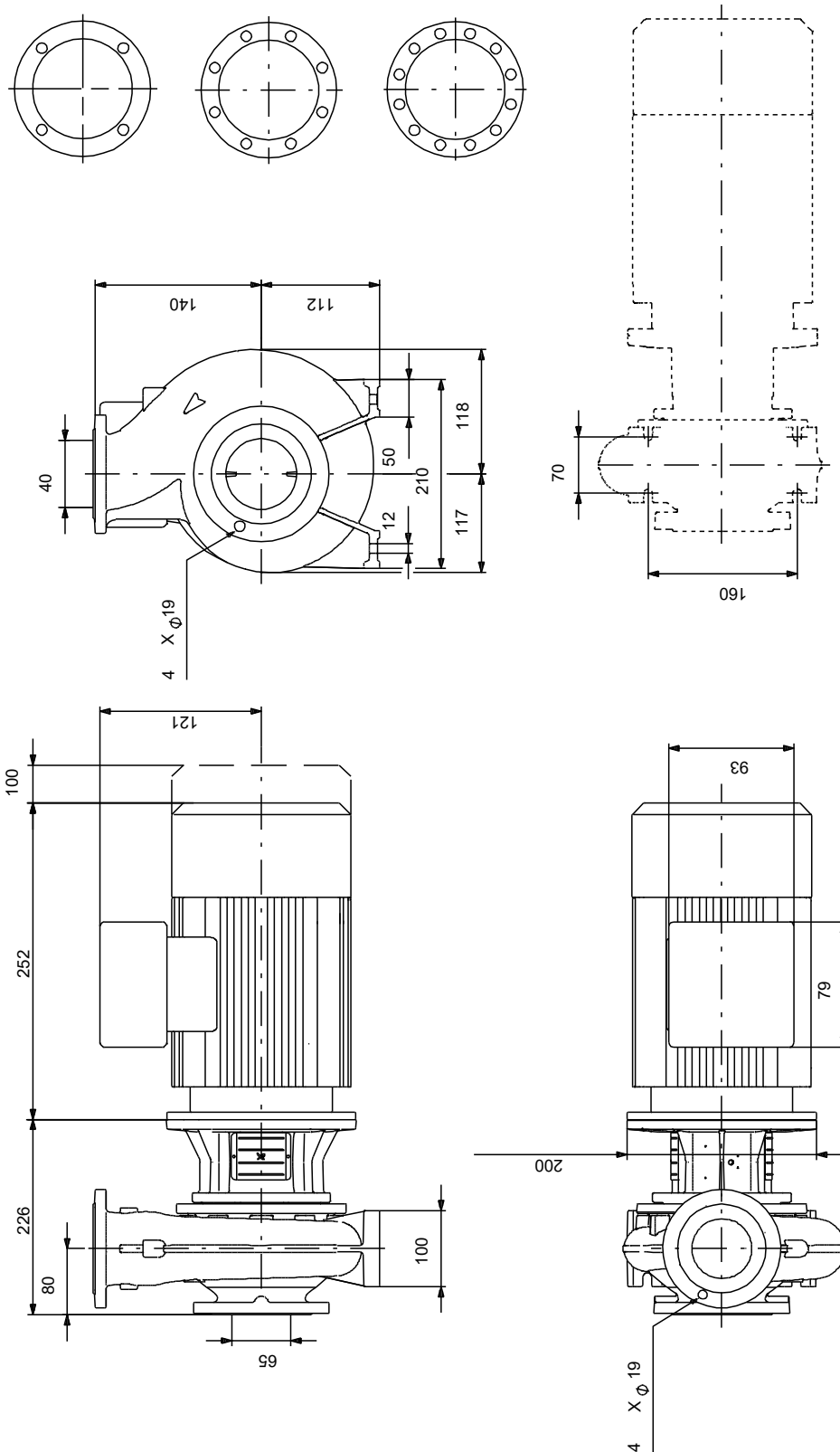


Description	Value
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	99900485
Mount. design. acc. IEC 34-7:	IM V1
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	36 kg
Gross weight:	46 kg
Shipping volume:	0.134 m ³
Country of origin:	HU
Custom tariff no.:	84137051

96546730 NB 40-125/142 AF2ABQQE 50 Hz



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

Spare parts NB 40-125/142, Product No. 96546730
Produced After 2101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Bulk, Nut			92514630	1	pcs
67	Nut		Thread: M14		5	
-	Bulk, o-ring			92547662	1	pcs
72a	O-ring				5	
-	Bulk, Plug vent			96620482	1	pcs
18	Plug				5	
-	Bulk, Shaft seal			99380916	1	pcs
105	Shaft seal				5	
-	Kit, coupling guard			96809944	1	pcs
7	Coupling guard				2	
77a	Pan head screw				4	
-	Kit, motor stool			98990896	1	pcs
1a	Motor stool				1	
7	Coupling guard				2	
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M10			
18	Plug				1	
36	Nut		Thread: M10		6	
76a	Rivet				2	
77a	Pan head screw				4	
-	Kit, nut			96939128	1	pcs
11	Parallel key		Dimension: 6X6X35		1	
-	36	Nut			1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M14		1	
-	Kit, pump housing			95131708	1	pcs
-	6	Pump housing			1	
26	Staybolt		Length (mm): 40		6	
			Thread: M10			
45	Wear ring				1	
20	Pipe plug		Thread: R 3/8		2	
36	Nut		Thread: M10		8	
-	Kit, stub shaft			96039350	1	pcs
9	Socket set screw				2	
11	Parallel key		Dimension: 6X6X35		1	
51	Stub shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M14		1	
-	Spare, O-ring			97757659	1	pcs
72a	O-ring				1	
-	Spare, plug vent			98164277	1	pcs
18	Plug				1	
-	Spare, shaft seal			98434904	1	pcs
105	Shaft seal				1	
-	Spare, wear ring			99208821	1	pcs
45	Wear ring				1	
-	Motor				1	pcs
156	Spare, motor fan			98507812	1	
151	Spare, motor fan cover			98505771	1	
176	Spare, Terminal board			98850910	1	
49	Impeller		Outer diameter: 125	96794871	1	pcs