

Inventflow: Grundfos A-partner

Grundfos NB 50-125/121 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-50-125-121-af2abqqe>

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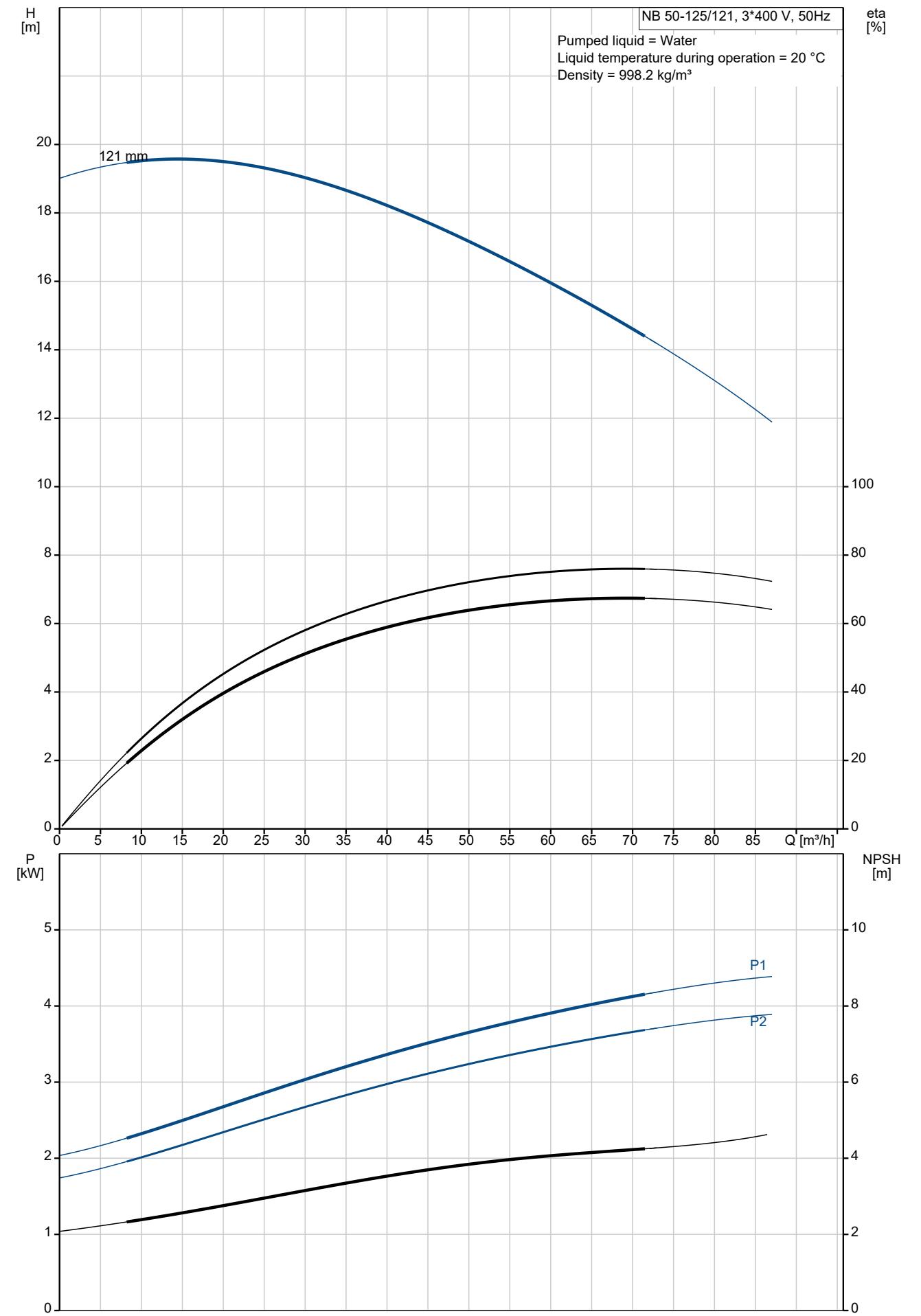
Datasheet



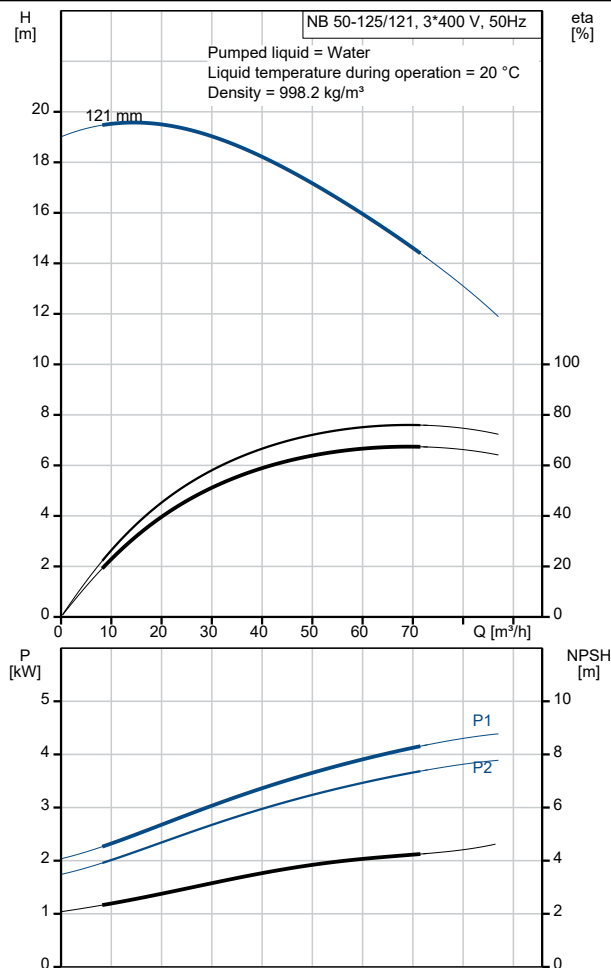
Qty.	Description
1	NB 50-125/121 AF2ABQQE  Product No.: 97933643 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. The pump is directly coupled with 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: 2920 rpm Rated flow: 69.48 m³/h Rated head: 14.4 m Actual impeller diameter: 121 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: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block: N Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm Efficiency: IE3 88,1% Motor efficiency at full load: 88.1 % Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 87322303 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 68 kg Gross weight: 78 kg Shipping volume: 0.178 m³ Country of origin: HU Custom tariff no.: 84137051

97933643 NB 50-125/121 AF2ABQQE 50 Hz

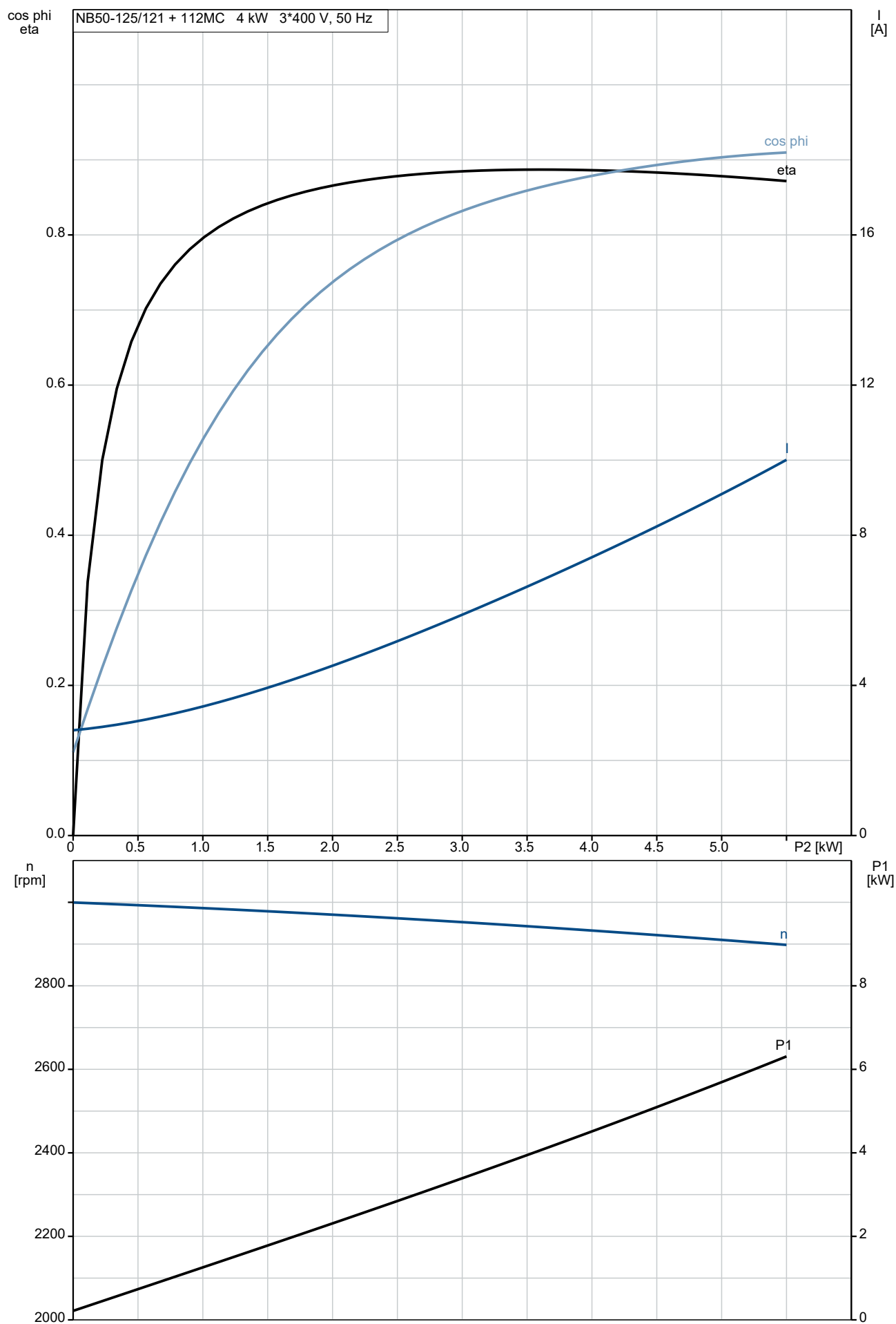


Description	Value
General information:	
Product name:	NB 50-125/121 AF2ABQQE
Product No:	97933643
EAN number:	5710626688708
Technical:	
Pump speed on which pump data are based:	2920 rpm
Rated flow:	69.48 m³/h
Rated head:	14.4 m
Actual impeller diameter:	121 mm
Nominal impeller diameter:	125
Shaft seal 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:	60 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 65
Size of outlet connection:	DN 50
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:	112MC
IE Efficiency class:	IE3
Rated power - P2:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	7.9 A
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting

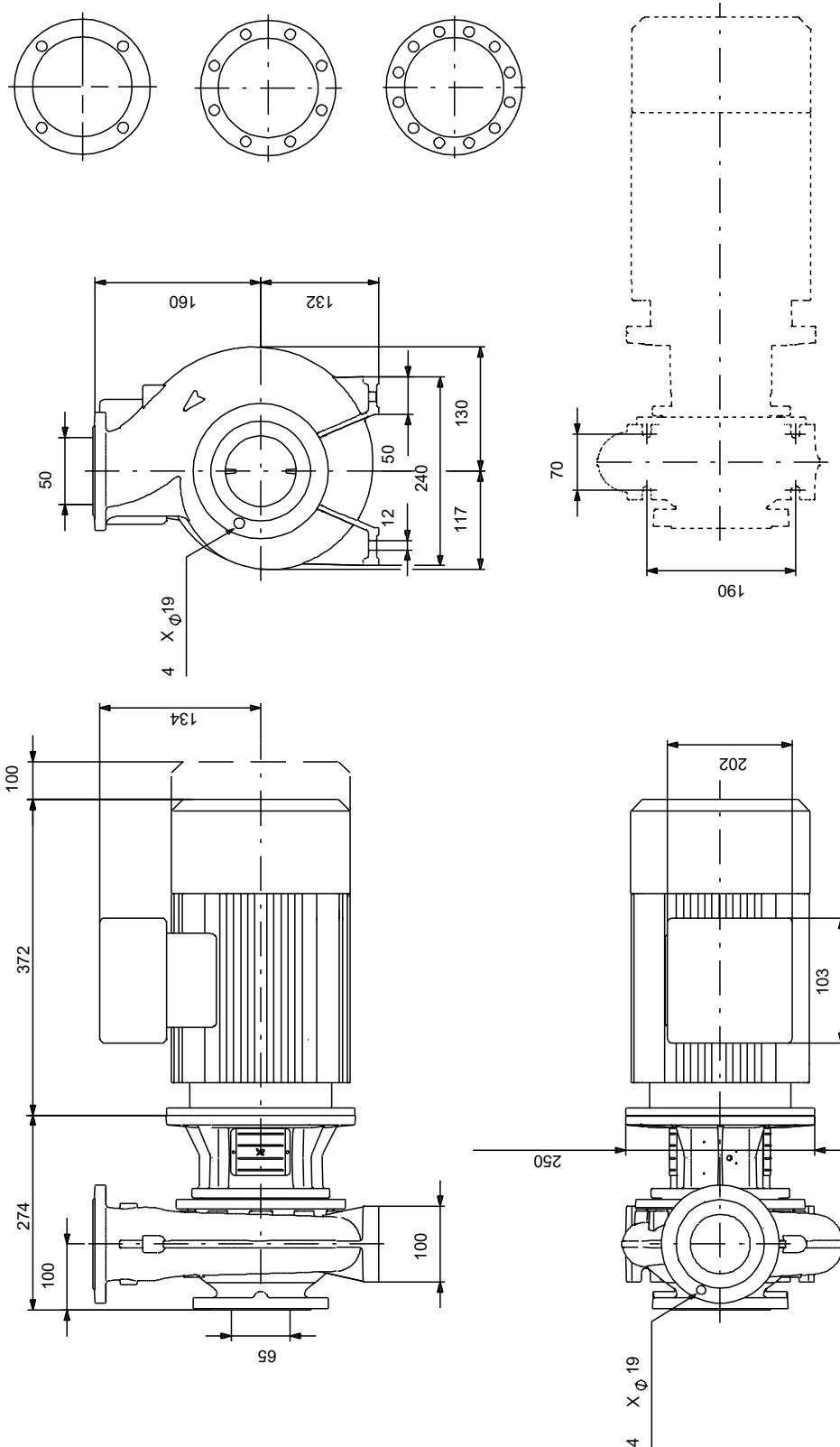


Description	Value
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	87322303
Mount. design. acc. IEC 34-7:	IM V1/B5
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	68 kg
Gross weight:	78 kg
Shipping volume:	0.178 m ³
Country of origin:	HU
Custom tariff no.:	84137051

97933643 NB 50-125/121 AF2ABQQE 50 Hz



97933643 NB 50-125/121 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 50-125/121, Product No. 97933643
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			96591145	1	pcs
7a	Pan head screw				4	
7	Coupling guard				2	
-	Kit, motor stool			98990897	1	pcs
1a	Motor stool				1	
7	Coupling guard				2	
18	Plug				1	
28	Hex head screw		Length (mm): 45 MM		4	
			Thread: M12			
36	Nut		Thread: M12		4	
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			95131714	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		6	
-	Kit, stub shaft			96039352	1	pcs
9	Socket set screw		Length (mm): 10		2	
			Thread: M8			
11	Parallel key		Dimension: 6X6X35		1	
51	Pump 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			99208819	1	pcs
45	Wear ring				1	
-	Motor			85903838	1	pcs
-	Kit, end shield			96279877	1	
106	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
156a	End shield				1	
158	Waved washer				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
159a	Seal ring				1	
-	Kit, eyebolt			96279825	1	
189	Eyebolt				1	
-	Kit, fan			96279758	1	
156	Fan				1	
159c	Seal ring				1	
159a	Seal ring				1	
-	Kit, fan cover			96279756	1	
151b	Label				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange			96279783	1	
156b	Flange				1	
159.c	Seal ring				1	
186	Drain plug				3	
-	Kit, flange			96279783	1	
156b	Flange				1	
159.c	Seal ring				1	
186	Drain plug				3	
-	Kit, key			96279821	1	
171	Parallel key				1	
-	Kit, retaining ring			96279799	1	
99	Retaining ring				1	
188	Retaining ring				1	
-	Kit, shaft seal			96279763	1	
159c	Seal ring				1	
159a	Seal ring				1	
-	Kit, staybolts			96279793	1	
181	Pan head staybolt				4	
-	Kit, terminal board			96279769	1	
	Bracket cpl.				1	
163	Hex socket head screw				1	
173a	Base				1	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
176	Slot cheese head screw		Designation: COMBI TORX T25		6	
			Length (mm): 10			
			Thread: M5			
176	Terminal				1	
176	Connecting piece				3	
176	Wire clamp				3	
176	Terminal board				1	
177	Pan head screw				1	
-	Kit, terminal box			96279772	1	
164	Terminal box cover w/gasket				1	
166	Pan head thread forming screw				4	
49	Impeller			98517532	1	pcs