

Inventflow: Grundfos A-partner

Grundfos NK 50-160/177 A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-50-160-177-a2f2ae-sbqqe>

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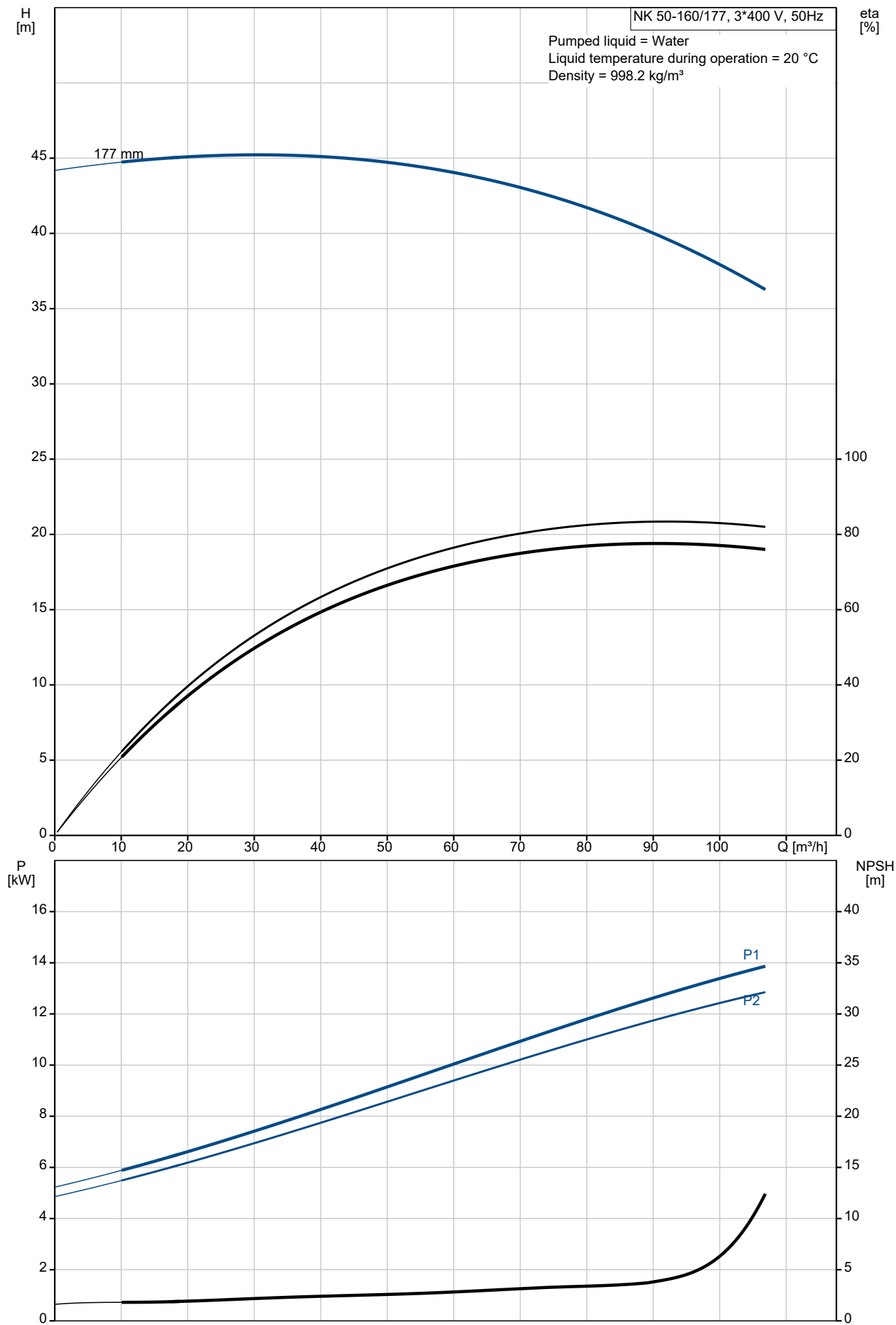
Datasheet



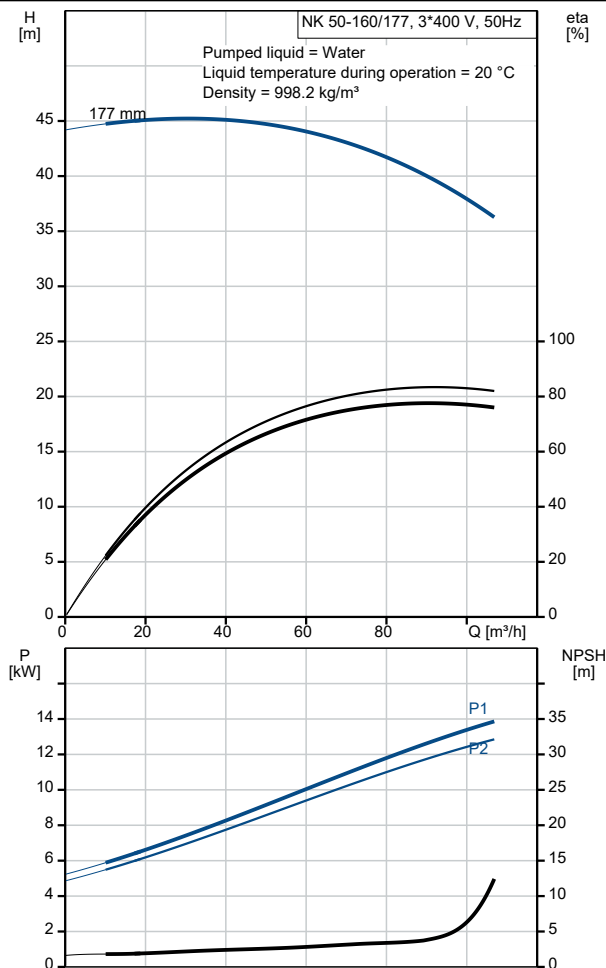
Qty.	Description
1	NK 50-160/177 A2F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98973488 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. Phase: Pump and 3-phase AC motor are mounted as separate units on a common baseplate and 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: 2930 rpm Rated flow: 94.37 m³/h Pump with motor: Y Rated head: 38.38 m Actual impeller diameter: 177 mm Nominal impeller diameter: 160 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 EN-GJL-200

Qty.	Description
	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 Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DN 65 Size of outlet connection: DN 50 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Grouting: N Electrical data: Motor type: 160MD IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 28,0-26,0/16,2-15,6 A Starting current: 660-780 % Cos phi - power factor: 0.89-0.87 Rated speed: 2930-2950 rpm Efficiency: IE3 91,9% Motor efficiency at full load: 91.9 % Motor efficiency at 3/4 load: 92.4 % Motor efficiency at 1/2 load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 87420025 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 224 kg Gross weight: 239 kg Shipping volume: 0.466 m³ Country of origin: HU Custom tariff no.: 84137059

98973488 NK 50-160/177 A2F2AE-SBQQE 50 Hz

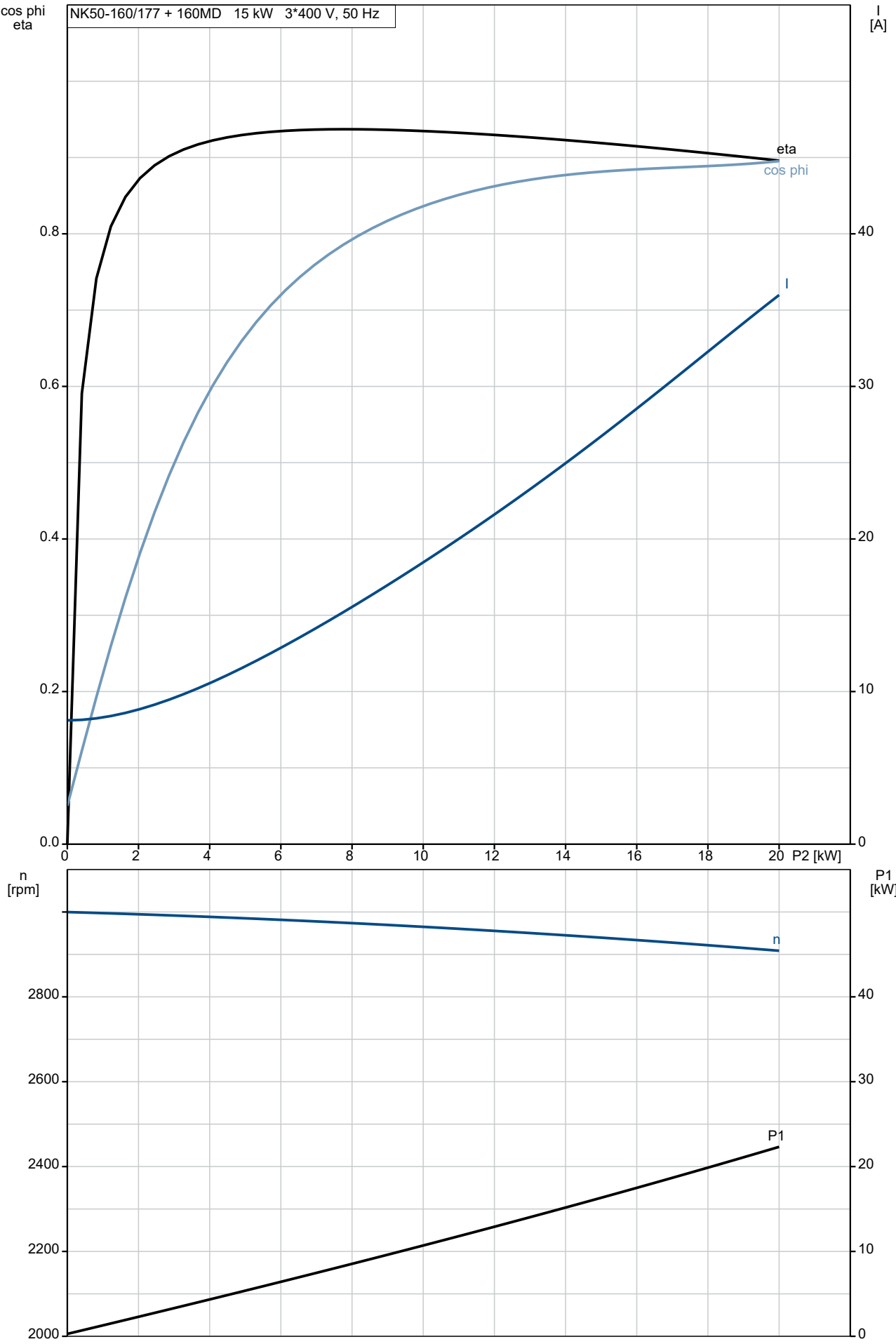


Description	Value
General information:	
Product name:	NK 50-160/177 A2F2AE-SBQQE
Product No:	98973488
EAN number:	5712604506462
Technical:	
Pump speed on which pump data are based:	2930 rpm
Rated flow:	94.37 m³/h
Pump with motor:	Y
Rated head:	38.38 m
Actual impeller diameter:	177 mm
Nominal impeller diameter:	160
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
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
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 65
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 16
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Grouting:	N
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	160MD
IE Efficiency class:	IE3
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	28,0-26,0/16,2-15,6 A
Starting current:	660-780 %
Cos phi - power factor:	0.89-0.87
Rated speed:	2930-2950 rpm
Efficiency:	IE3 91,9%
Motor efficiency at full load:	91.9 %
Motor efficiency at 3/4 load:	92.4 %
Motor efficiency at 1/2 load:	92.4 %

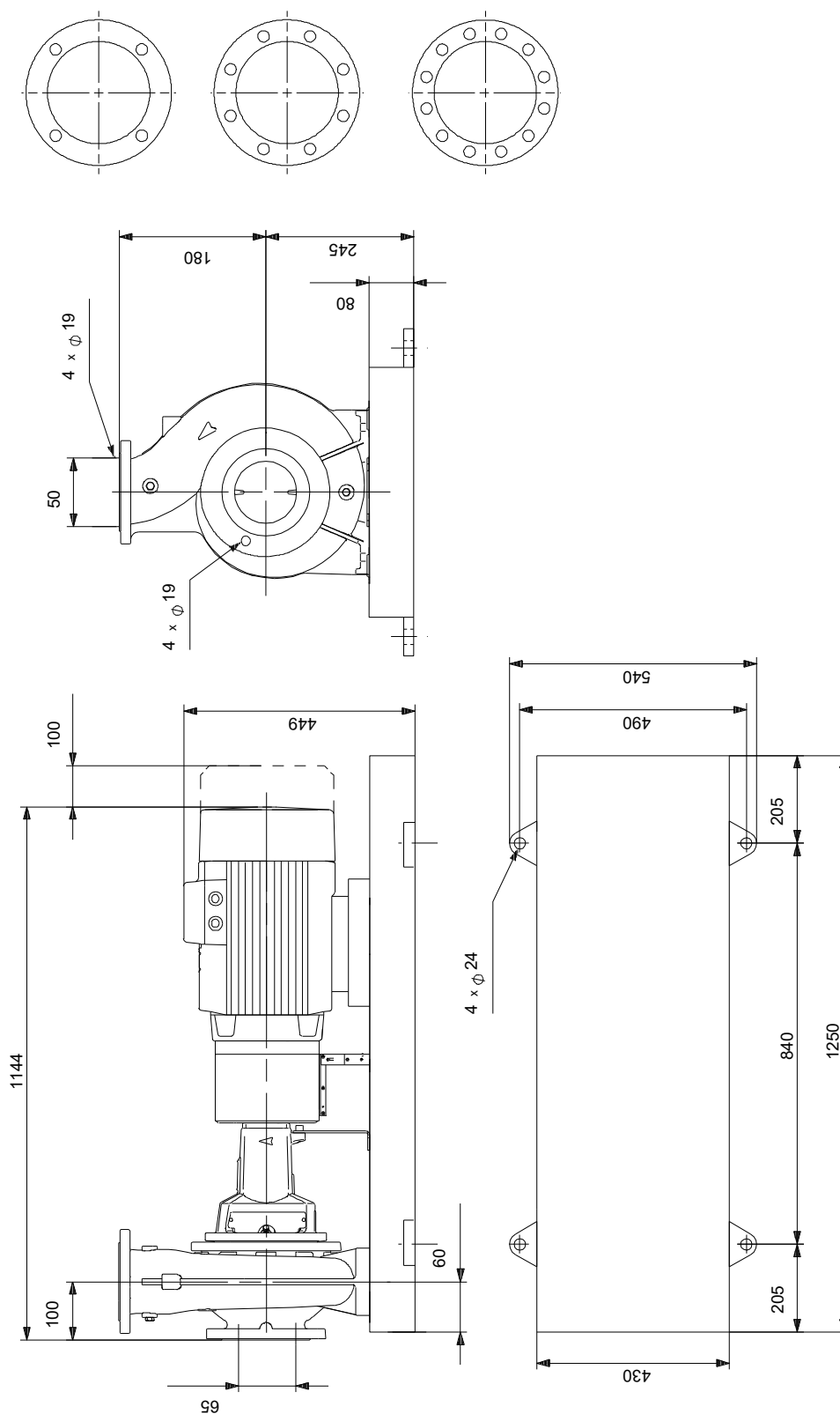


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	87420025
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	224 kg
Gross weight:	239 kg
Shipping volume:	0.466 m³
Country of origin:	HU
Custom tariff no.:	84137059

98973488 NK 50-160/177 A2F2AE-SBQQE 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 NK 50-160/177, Product No. 98973488
Produced After 1101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			96579598	1	pcs
53a	O-ring		Diameter: 71,5 Material type: EPDM Thickness: 3		1	
53	Ball bearing				1	
54a	O-ring		Diameter: 71,5 Material type: EPDM Thickness: 3		1	
54	Ball bearing				1	
156a	Bearing cover				2	
159f	Retaining ring				2	
159a	V-ring				2	
-	Kit, bearing bracket			95131793	1	pcs
7.k	Hex socket head cap screw		Length (mm): 10 Thread: M6		4	
36.a	Nut		Thread: M10		6	
76a	Rivet				2	
86	Bearing bracket				1	
124d	Shaft guard				1	
124d	Shaft guard				1	
124.d	Pan head screw				4	
-	Kit, coupling			96579731	1	pcs
- 8	Coupling cpl.				1	
89s	Spacer ring				1	
89r	Spacer sleeve				1	
89o	Coupling part spacer side				1	
89.p	Coupling female				1	
89.d	Hex socket head cap screw		Length (mm): 16 Thread: M6		6	
89.b	Socket set screw		Length (mm): 8 Thread: M6		1	
89	Rubber blocks for coupling				6	
11.a	Parallel key		Dimension: 8X7X40		1	
-	Kit, coupling guard			97945066	1	pcs
7b	Hex socket head cap screw		Length (mm): 10 Thread: M6		4	
7b	Retainer for coupling guard				1	
+ 7	Coupling guard cpl.				1	
-	Kit, cover			95131799	1	pcs
18	Plug				1	
36	Nut		Thread: M10		6	
77	Cover f/mech. seal				1	
-	Kit, foot for bearing bracket			96909147	1	pcs
	Nut		Thread: M12		2	
66	Washer				2	
90.e	Hex head screw		Length (mm): 25 Thread: M12		1	
90.d	Hex head bolt		Length (mm): 100 Thread: M12		2	
90.d	Hex head bolt		Length (mm): 80 Thread: M12		2	
90.d	Hex head bolt		Length (mm): 50 Thread: M12		2	
90.d	Hex head screw		Length (mm): 60 Thread: M12		2	
90.d	Hex head screw		Length (mm): 35MM Thread: M12		2	
90.d	Hex head screw		Length (mm): 30		2	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
			Thread: M12			
90.c	Foot				1	
-	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			95131715	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, rubber blocks f. coupling			96480016	1	pcs
89	Rubber blocks for coupling				6	
-	Kit, shaft			96039654	1	pcs
11.a	Parallel key		Dimension: 8X7X40		1	
11	Parallel key		Dimension: 6X6X35		1	
51	Shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M14		1	
-	Kit, shaft cover			96809954	1	pcs
124d	Shaft guard				1	
124d	Shaft guard				1	
124.d	Pan head screw				4	
-	Spare, wear ring			96810102	1	pcs
45b	Wear ring				1	
-	V-ring			96591314	1	pcs
159a	V-ring				1	
-	Motor				1	pcs
-	Kit, bearing cpl.			96796674	1	
32b	Waved washer				1	
111	Ball bearing				1	
154	Ball bearing				1	
157	O-ring				1	
-	Kit, bearing plate			96796664	1	
155.a	Bearing cover				1	
208a	Gasket				3	
208	Hex socket head cap screw		Designation: DIN912		3	
			Length (mm): 40			
			Thread: M5			
-	Kit, end shield			96796660	1	
156.b	End shield DE				1	
159.b	Seal ring				1	
185.b	Nut				4	
185	Hex socket head cap screw				4	
186	Drain plug				3	
195.a	Grease nipple				1	
-	Kit, eyebolt			96796712	1	
189	Eyebolt				2	
-	Kit, fan			96796648	1	
156.c	Retaining ring				1	
156	Fan				1	
-	Kit, fan cover			96796647	1	
151	Fan cover				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
152.a	Rubber bush				4	
152	Hex head cap screw				4	
196	Diaphragm				1	
-	Kit, foot			96796666	1	
191	Foot				2	
192	Hex socket head cap screw				4	
194	Lock washer				4	
194	Nut				4	
-	Kit, gaskets			96798508	1	
184	O-ring		Diameter: 235		2	
-	Kit, key			96279873	1	
40	Parallel key		Designation: DS96 DIN 6885		1	
			Dimension: 12X8X90			
-	Kit, lubrication nipple			96796671	1	
195.b	Grease nipple				2	
195.a	Grease nipple				1	
-	Kit, ND-end shield cpl.			96796669	1	
32b	Waved washer				1	
156.a	End shield NDE				1	
157	O-ring				1	
159	V-ring				1	
185.c	Nut				4	
185.a	Hex socket head cap screw				4	
195.b	Grease nipple				1	
-	Kit, shaft seal			96843459	1	
159.b	V-ring				1	
159	V-ring				1	
-	Kit, terminal board			96796657	1	
	Terminal connection				3	
	Washer				12	
36	Hex nut				12	
173	Torx Screw				1	
176.d	Terminal board				1	
176	Terminal board				1	
177	Torx Screw				1	
-	Kit, terminal box cover			96796659	1	
164	Terminal box cover				1	
273a	Pan head thread forming screw				4	
7k	Hex socket head cap screw		Length (mm): 10 Thread: M6	97506946	4	pcs
28	Hex head screw			99867140	4	pcs
28	Hex head screw		Length (mm): 25 Thread: M12	99522923	1	pcs
36	Nut		Thread: M10	96620484	6	pcs
49	Impeller		Outer diameter: 177	96794878	1	pcs
53.b	Spacer ring			96938908	1	pcs
54a	O-ring		Diameter: 71,5 Material type: EPDM Thickness: 3	97511807	2	pcs
67	Nut		Thread: M14	92526531	1	pcs
72a	O-ring			92547662	1	pcs
72a	O-ring			92526508	1	pcs
72a	O-ring			97511824	1	pcs
72a	O-ring			99756265	1	pcs
77a	Pan head screw			99266550	4	pcs
156a	Bearing cover			97506936	2	pcs