

Inventflow: Grundfos A-partner

Grundfos NK 50-250/233 A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-50-250-233-a2f2ae-sbqqe>

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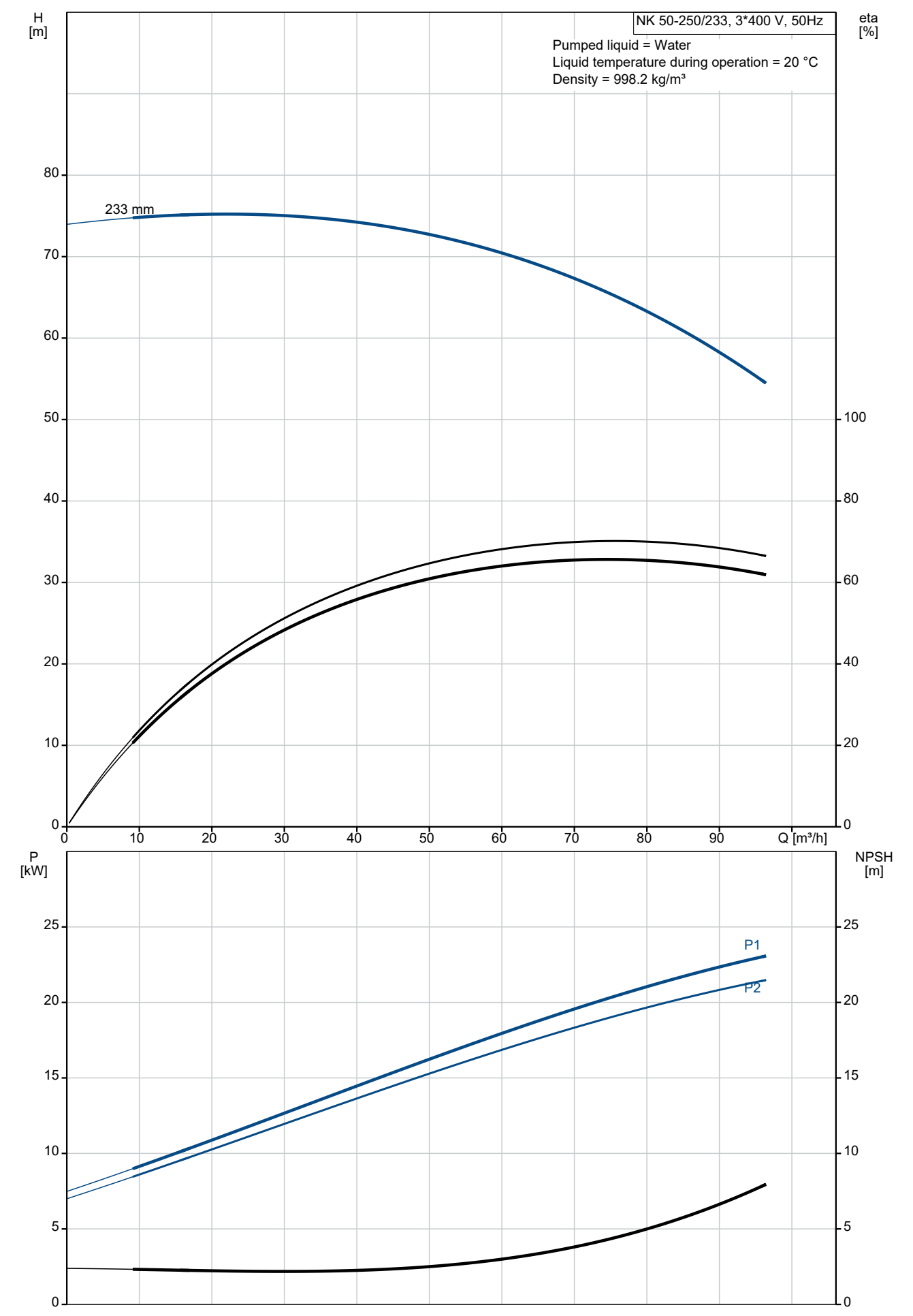
Datasheet



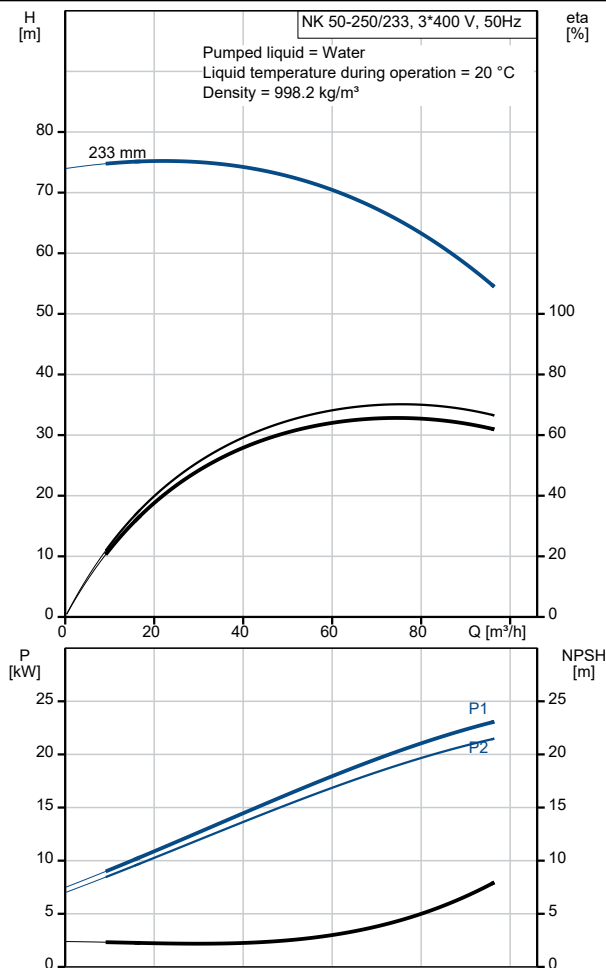
Qty.	Description
1	NK 50-250/233 A2F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98973455 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive 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: 2950 rpm Rated flow: 79.04 m³/h Pump with motor: Y Rated head: 63.43 m Actual impeller diameter: 233 mm Nominal impeller diameter: 250 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
	Shaft: ASTM class 30 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 39.5/22.8 A Starting current: 830 % Cos phi - power factor: 0.90-0.90 Rated speed: 2950 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Motor efficiency at 3/4 load: 93.7 % Motor efficiency at 1/2 load: 94.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 87470022 Others: Minimum efficiency index, MEI ≥: 0.61 Net weight: 267 kg Gross weight: 282 kg Shipping volume: 0.499 m³ Country of origin: HU Custom tariff no.: 84137059

98973455 NK 50-250/233 A2F2AE-SBQQE 50 Hz

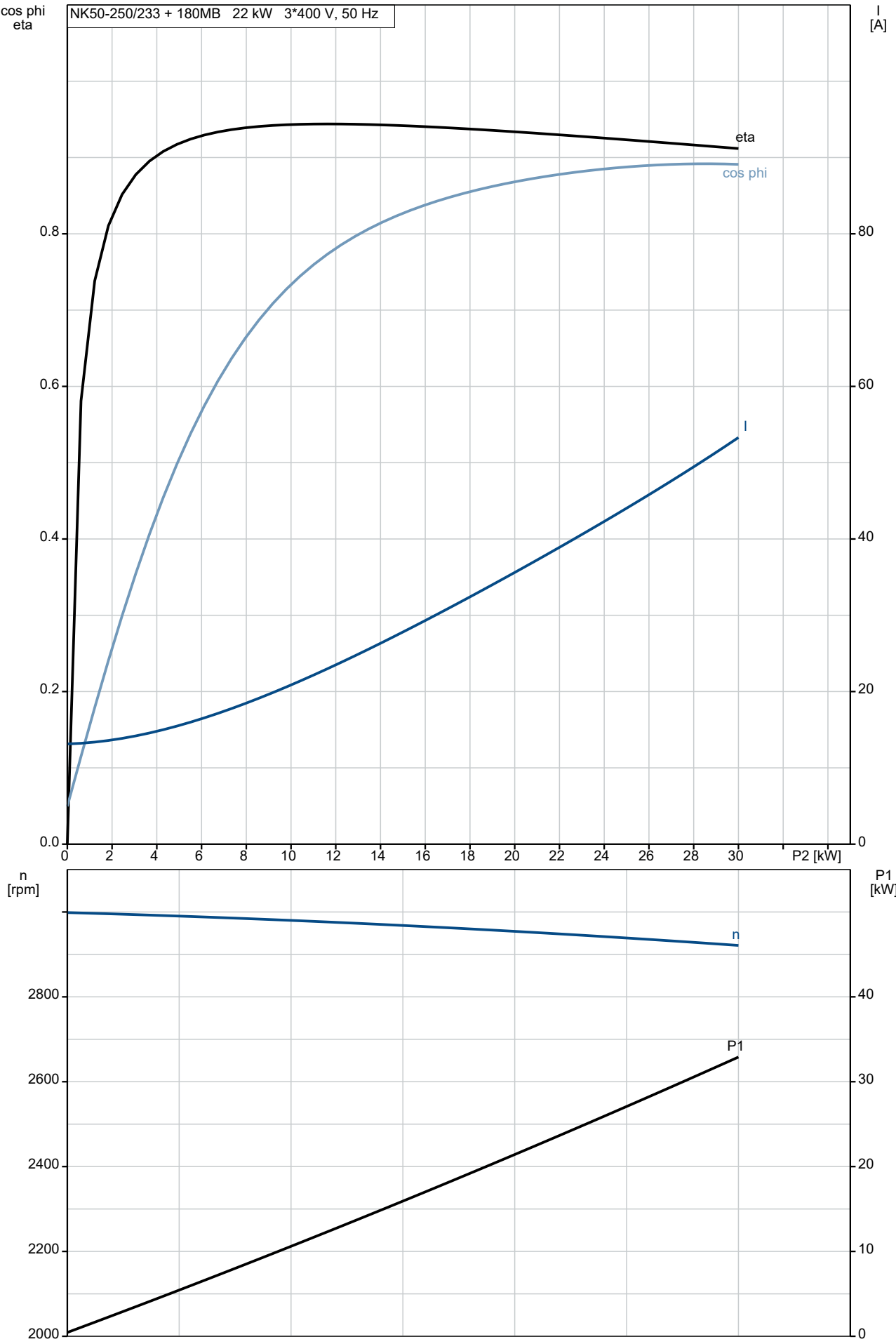


Description	Value
General information:	
Product name:	NK 50-250/233 A2F2AE-SBQQE
Product No:	98973455
EAN number:	5712604505793
Technical:	
Pump speed on which pump data are based:	2950 rpm
Rated flow:	79.04 m³/h
Pump with motor:	Y
Rated head:	63.43 m
Actual impeller diameter:	233 mm
Nominal impeller diameter:	250
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:	180MB
IE Efficiency class:	IE3
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	39.5/22.8 A
Starting current:	830 %
Cos phi - power factor:	0.90-0.90
Rated speed:	2950 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Motor efficiency at 3/4 load:	93.7 %
Motor efficiency at 1/2 load:	94.4 %

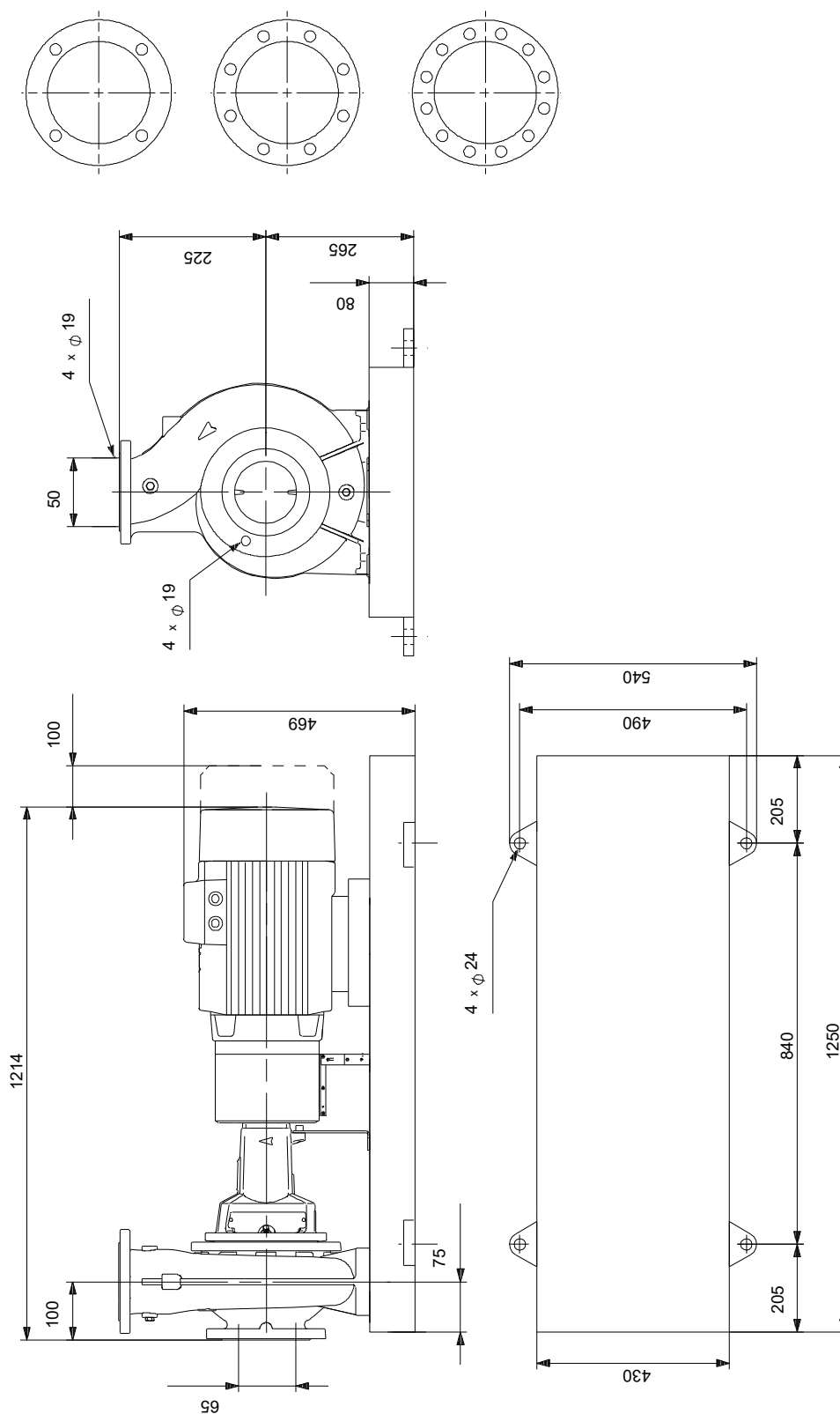


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	87470022
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.61
Net weight:	267 kg
Gross weight:	282 kg
Shipping volume:	0.499 m³
Country of origin:	HU
Custom tariff no.:	84137059

98973455 NK 50-250/233 A2F2AE-SBQQE 50 Hz



98973455 NK 50-250/233 A2F2AE-SBQQE 50 Hz



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

Spare parts NK 50-250/233, Product No. 98973455
Produced After 1101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
-	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			96579733	1	pcs
- 8	Coupling cpl.				1	
89.s	Spacer ring				1	
89.r	Spacer sleeve				1	
89.p	Coupling female				1	
89.o	Coupling part spacer side				1	
89.d	Hex socket head cap screw		Length (mm): 20 Thread: M8		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			95131803	1	pcs
18	Plug				1	
36	Nut		Thread: M10		10	
36	Nut		Thread: M10		6	
- 77	Cover				1	
36	Nut		Thread: M10		6	
77	Cover				1	
-	Kit, foot for bearing bracket			96909162	1	pcs
	Nut		Thread: M12		2	
66	Washer				2	
90c	Foot				1	
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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
90.d	Hex head bolt			Length (mm): 55 Thread: M12		2	
90.d	Hex socket head cap screw					2	
90.d	Hex head screw			Length (mm): 35MM Thread: M12		2	
90.d	Hex head screw			Length (mm): 30 Thread: M12		2	
-	Kit, foot for coupling guard				96848498	1	pcs
7h	Hex head screw			Length (mm): 16 Thread: M8		2	
-	7.d	Foot cpl.				1	
7l	Support f/coupling guard foot					1	
7h	Hex socket head cap screw					2	
7d	Foot for coupling guard					1	
66	Washer					2	
-	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				95131719	1	pcs
-	6	Pump housing				1	
26	Staybolt			Length (mm): 35 Thread: M10		10	
45	Wear ring					1	
20	Pipe plug			Thread: R 3/8		2	
36	Nut			Thread: M10		10	
-	Kit, rubber blocks f. coupling				96480017	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	
-	Spare, wear ring				96810141	1	pcs
45	Wear ring					1	
-	V-ring				96591314	1	pcs
159a	V-ring					1	
-	Motor					1	pcs
-	Kit, bearing cpl.			Designation: 6310.Z.C4-6310.Z.C4	96796811	1	
111	Ball bearing					1	
154	Ball bearing					1	
158	Waved washer					1	
-	Kit, bearing plate				96796809	1	
155.a	Cover					1	
208a	Gasket					3	
208	Hex socket head cap screw			Designation: DIN912 Length (mm): 40 Thread: M5		3	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
-	Kit, end shield				96796805	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				96796652	1	
156. c	Retaining ring						1
156	Fan						1
-	Kit, fan cover				96796647	1	
151	Fan cover						1
152. a	Rubber bush						4
152	Hex head cap screw						4
196	Diaphragm						1
-	Kit, foot				96796804	1	
191. a	Foot						1
191	Foot						1
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				96796817	1	
171	Parallel key						1
-	Kit, lubrication nipple				96796671	1	
195. b	Grease nipple						2
195. a	Grease nipple						1
-	Kit, ND-end shield cpl.				96796810	1	
156a	End shield NDE						1
158	Waved washer						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				96843460	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

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
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	10	pcs
49	Impeller			98517553	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		Diameter: 253,6 Material type: EPDM Thickness: 3,53	92547618	1	pcs
72a	O-ring		Diameter: 253,6 Material type: EPDM Thickness: 3,53	92526509	1	pcs
72a	O-ring		Diameter: 253,6 Material type: EPDM Thickness: 3,53	97511826	1	pcs
72a	O-ring		Diameter: 253,6 Material type: EPDM Thickness: 3,53	97757672	1	pcs
77a	Pan head screw			99266550	4	pcs
89	Rubber blocks for coupling			96591290	6	pcs
156a	Bearing cover			97506936	2	pcs