

Inventflow: Grundfos A-partner

Grundfos NK 40-160/144 A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-40-160-144-a2f2ae-sbqqe>

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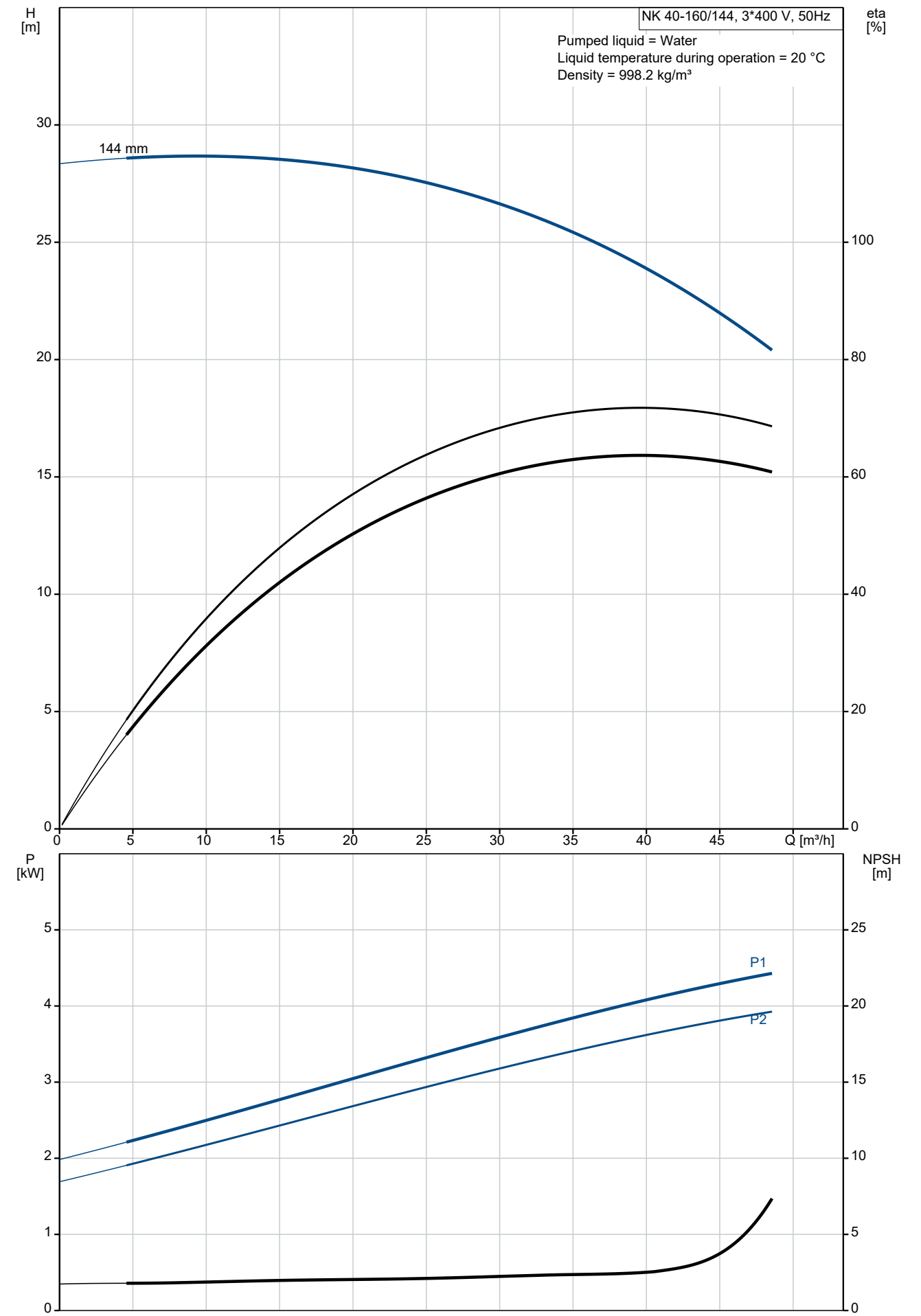
Datasheet



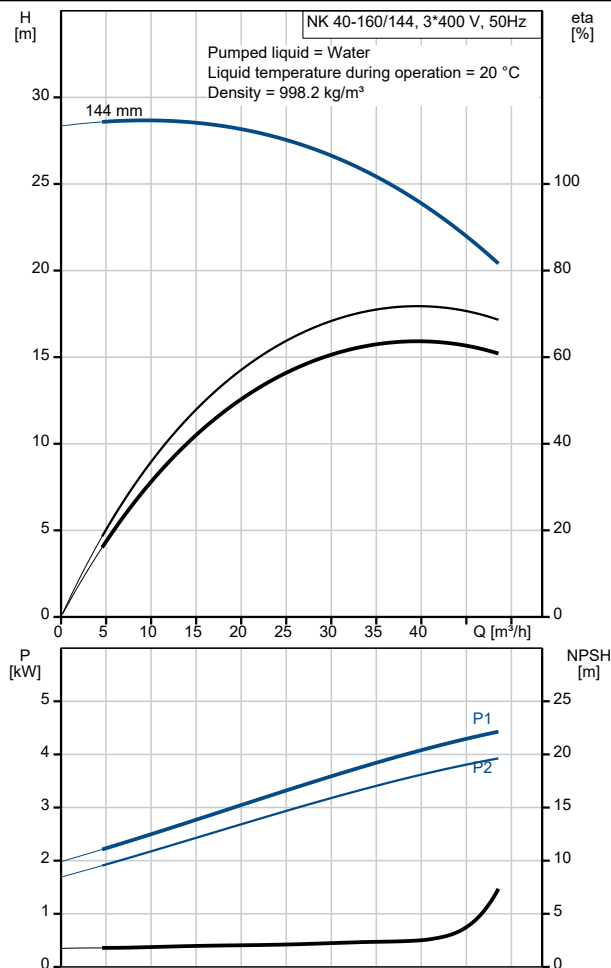
Qty.	Description
1	NK 40-160/144 A2F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98973456 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive 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: 2920 rpm Rated flow: 39.27 m³/h Pump with motor: Y Rated head: 23.72 m Actual impeller diameter: 144 mm Nominal impeller diameter: 160 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 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 40 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Grouting: 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: 87322371 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 130 kg Gross weight: 144 kg Shipping volume: 0.279 m³ Country of origin: HU Custom tariff no.: 84137059

98973456 NK 40-160/144 A2F2AE-SBQQE 50 Hz

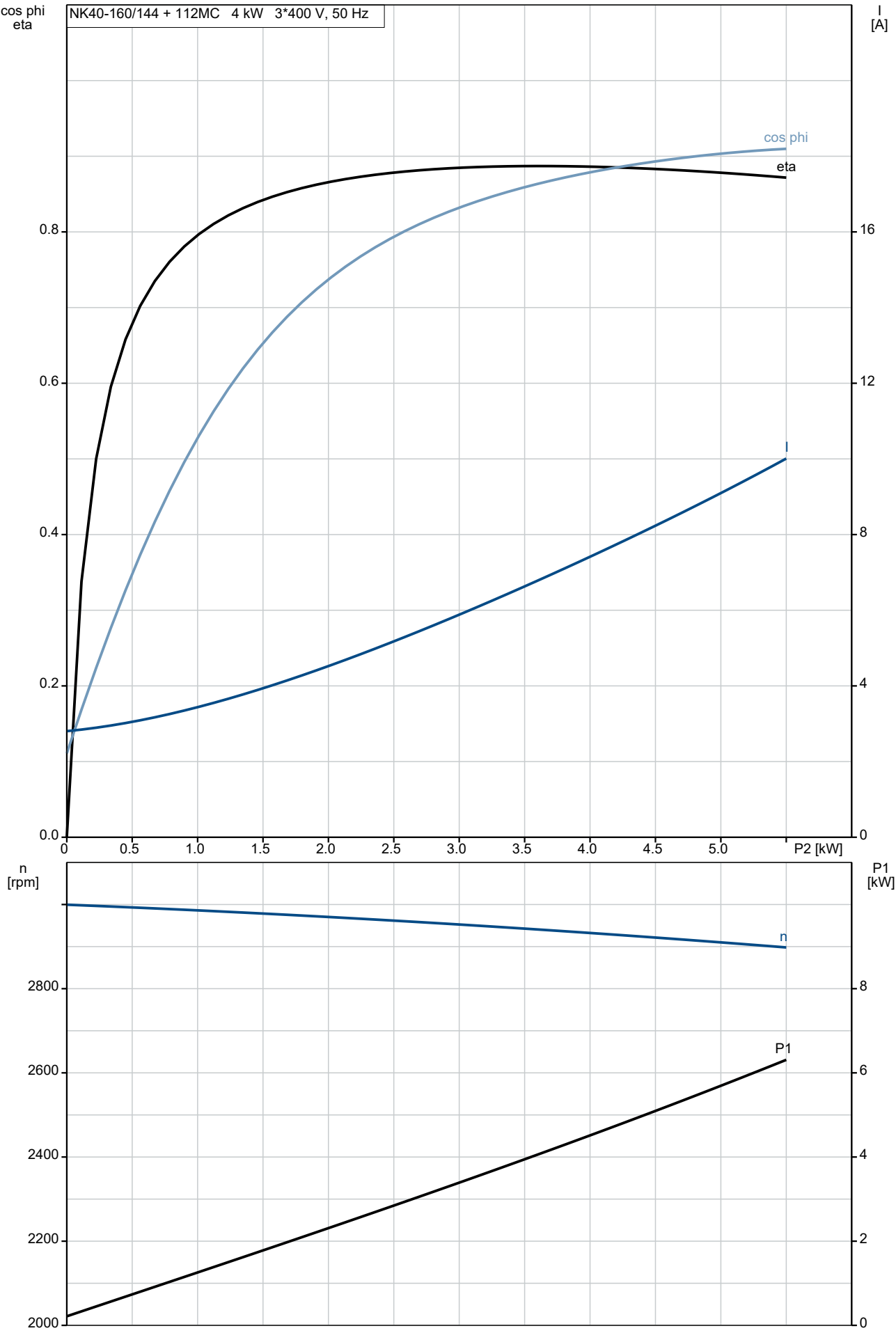


Description	Value
General information:	
Product name:	NK 40-160/144 A2F2AE-SBQQE
Product No:	98973456
EAN number:	5712604505816
Technical:	
Pump speed on which pump data are based:	2920 rpm
Rated flow:	39.27 m³/h
Pump with motor:	Y
Rated head:	23.72 m
Actual impeller diameter:	144 mm
Nominal impeller diameter:	160
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
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 40
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:	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 %

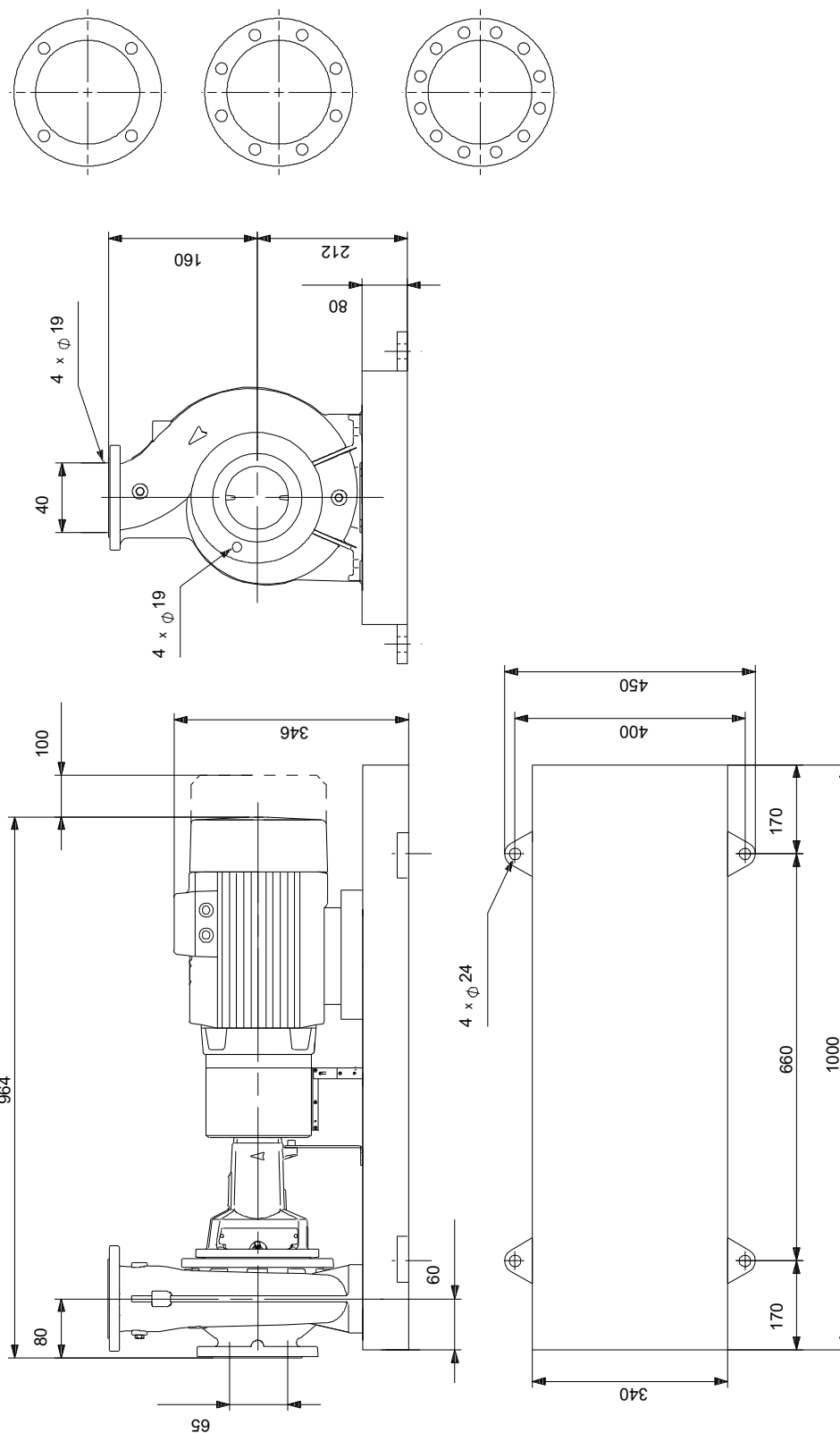


Description	Value
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	87322371
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	130 kg
Gross weight:	144 kg
Shipping volume:	0.279 m³
Country of origin:	HU
Custom tariff no.:	84137059

98973456 NK 40-160/144 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 40-160/144, Product No. 98973456
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			96579722	1	pcs
- 8	Coupling cpl.				1	
89s	Spacer ring				1	
89r	Spacer sleeve				1	
89o	Coupling part spacer side				1	
89o	Coupling part spacer side				6	
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	
11.a	Parallel key		Dimension: 8X7X40		1	
-	Kit, coupling guard			97945064	1	pcs
7b	Retainer for coupling guard				1	
7	Coupling guard cpl.				1	
186	Hex socket head cap screw		Length (mm): 10 Thread: M6		4	
-	Kit, cover			95131799	1	pcs
18	Plug				1	
36	Nut		Thread: M10		6	
77	Cover f/mech. seal				1	
-	Kit, foot for bearing bracket			96909145	1	pcs
	Nut		Thread: M12		2	
	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): 70 Thread: M12		2	
90.d	Hex head screw		Length (mm): 35MM Thread: M12		2	
90.d	Hex head screw		Length (mm): 40 Thread: M12		2	
90.c	Foot				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, foot for coupling guard			96848538	1	pcs
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
-	7.d	Foot cpl.			1	
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			95131709	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			96480015	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			96810100	1	pcs
45	Wear ring				1	
-	Spare, wear ring			96810102	1	pcs
45b	Wear ring				1	
-	V-ring			96591314	1	pcs
159a	V-ring				1	
-	Motor			85903839	1	pcs
-	Kit, bearing cpl.			96279796	1	
99	Retaining ring				1	
111	Ball bearing				1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
188	Retaining ring				1	
-	Kit, end shield			96279775	1	
156b	Flange				1	
159d	Gamma ring				1	
186	Drain plug				1	
-	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, foot				96279787	1	
191	Foot					1	
192	Thread forming screw					4	
-	Kit, key				96279821	1	
171	Parallel key					1	
-	Kit, retaining ring				96279799	1	
99	Retaining ring					1	
188	Retaining ring					1	
-	Kit, shaft seal				96279767	1	
159d	Gamma 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	
7k	Hex socket head cap screw			Length (mm): 10 Thread: M6	97506946	4	pcs
28	Hex head screw			Length (mm): 25 Thread: M12	99522923	1	pcs
36	Nut			Thread: M10	96620484	6	pcs
49	Impeller				98517524	1	pcs
53.b	Spacer ring				96938908	1	pcs
54a	O-ring			Diameter: 71,5 Material type: EPDM	97511807	2	pcs
				Thickness: 3			
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

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr.	Aantal	Eenheid
156a	Bearing cover				97506936	2	pcs