

Inventflow: Grundfos A-partner

Grundfos NK 50-160/175 A1F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-50-160-175-a1f2ae-sbqqe>

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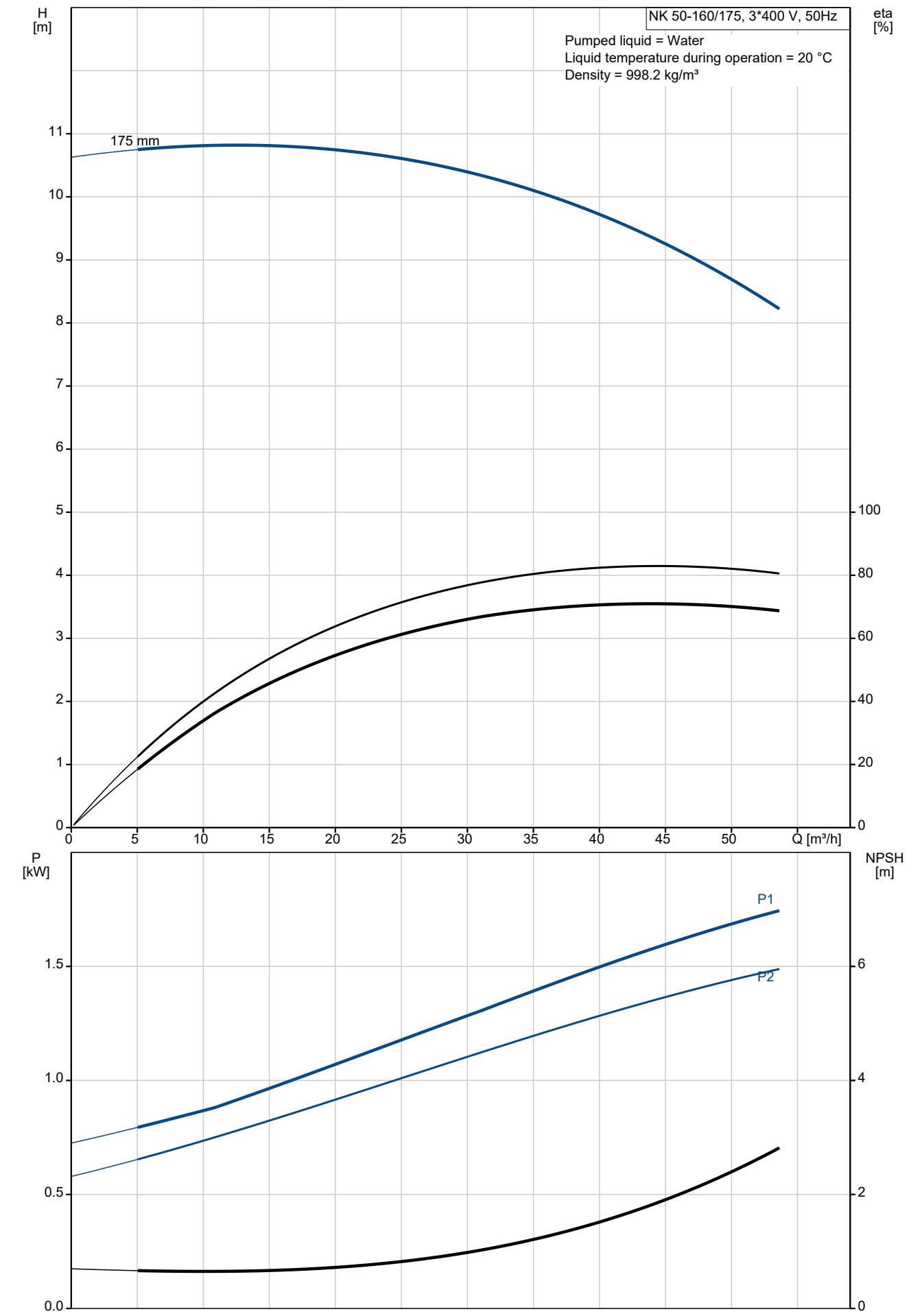
Datasheet



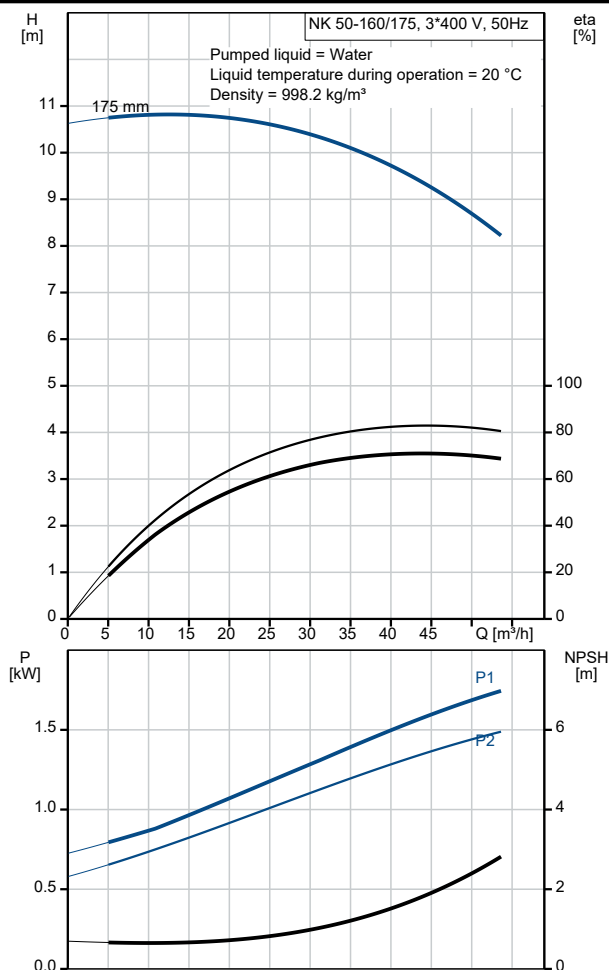
Qty.	Description
1	NK 50-160/175 A1F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98971921 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive 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: 1445 rpm Rated flow: 45.04 m³/h Pump with motor: Y Rated head: 9.137 m Actual impeller diameter: 175 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: 55 °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/o spacer Base frame design: EN/ISO Grouting: N Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V Rated current: 5,78-5,23/3,31-2,99 A Starting current: 720-720 % Cos phi - power factor: 0.8 Rated speed: 1445 rpm Efficiency: IE3 85,3% Motor efficiency at full load: 85.3-85.3 % Motor efficiency at 3/4 load: 86.0-86.0 % Motor efficiency at 1/2 load: 85.2-85.2 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98957730 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 117 kg Gross weight: 131 kg Shipping volume: 0.306 m³ Country of origin: HU Custom tariff no.: 84137059

98971921 NK 50-160/175 A1F2AE-SBQQE 50 Hz

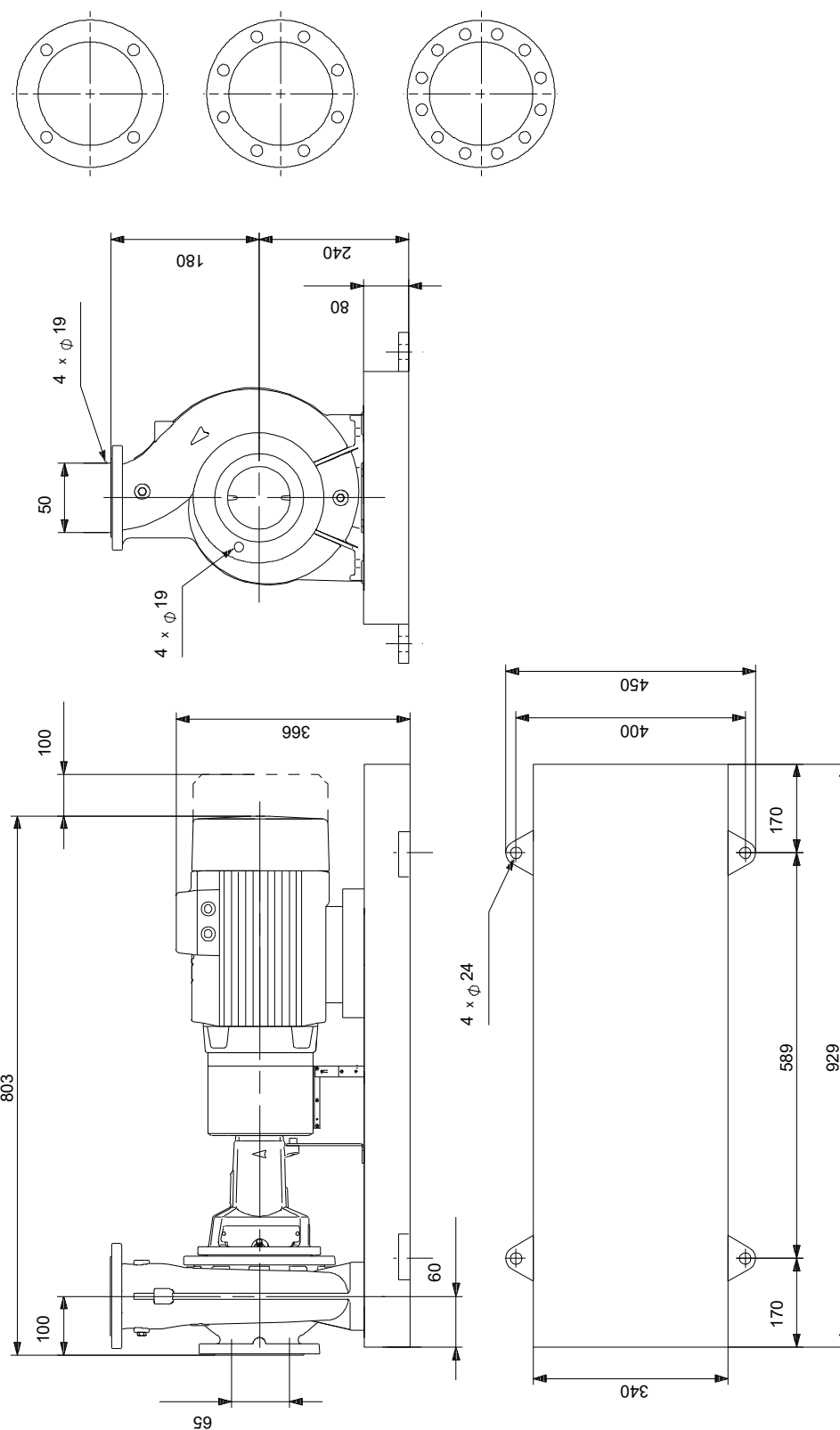


Description	Value
General information:	
Product name:	NK 50-160/175 A1F2AE-SBQQE
Product No:	98971921
EAN number:	5712604475027
Technical:	
Pump speed on which pump data are based:	1445 rpm
Rated flow:	45.04 m³/h
Pump with motor:	Y
Rated head:	9.137 m
Actual impeller diameter:	175 mm
Nominal impeller diameter:	160
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	A1
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
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/o 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:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-420Y V
Rated current:	5,78-5,23/3,31-2,99 A
Starting current:	720-720 %
Cos phi - power factor:	0.8
Rated speed:	1445 rpm
Efficiency:	IE3 85,3%
Motor efficiency at full load:	85.3-85.3 %
Motor efficiency at 3/4 load:	86.0-86.0 %
Motor efficiency at 1/2 load:	85.2-85.2 %



Description	Value
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	98957730
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	117 kg
Gross weight:	131 kg
Shipping volume:	0.306 m³
Country of origin:	HU
Custom tariff no.:	84137059

98971921 NK 50-160/175 A1F2AE-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 50-160/175, Product No. 98971921
Produced After 2105 (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, bolt for coupling			96809939	1	pcs
-	Bolt				4	
-	Bolt				1	
89q	Washer		Internal diameter: 16,5 Outer diameter: 25,0			
89g	Spring lock washer					
89f	Washer		Internal diameter: 14,5 Outer diameter: 25			
89e	Nut					
89d	Bolt					
89	Rubber blocks for coupling				1	
-	Kit, coupling			96848894	1	pcs
- 8	Coupling cpl.				1	
-	Bolt				4	
-	Bolt					
89q	Washer		Internal diameter: 16,5 Outer diameter: 25,0			
89g	Spring lock washer					
89f	Washer		Internal diameter: 14,5 Outer diameter: 25			
89e	Nut					
89d	Bolt					
89	Rubber blocks for coupling					
89.p	Coupling female				1	
89.o	Connector				1	
89.b	Socket set screw		Length (mm): 8 Thread: M6		2	
89.a	Socket set screw		Length (mm): 10 Thread: M8		2	
11.a	Parallel key		Dimension: 8X7X40		1	
-	Kit, coupling guard			97945046	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	
7e	Hex socket head cap screw				3	
7c	Spacer f/coupling guard				1	
7	Guard				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
94	Lock nut		Thread: M6		2	
-	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		1	
			Thread: M12			
90.d	Hex head bolt		Length (mm): 100		2	
			Thread: M12			
90.d	Hex head bolt		Length (mm): 80		2	
			Thread: M12			
90.d	Hex head bolt		Length (mm): 50		2	
			Thread: M12			
90.d	Hex head screw		Length (mm): 60		2	
			Thread: M12			
90.d	Hex head screw		Length (mm): 35MM		2	
			Thread: M12			
90.d	Hex head screw		Length (mm): 30		2	
			Thread: M12			
90.c	Foot				1	
-	Kit, foot for coupling guard			96848477	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			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			96789247	1	pcs
89	Rubber blocks for coupling				8	
-	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
156	Spare, motor fan			98728949	1	
151	Spare, motor fan cover			98728862	1	
176	Spare, Terminal board			98850910	1	
7k	Hex socket head cap screw		Length (mm): 10	97506946	4	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
			Thread: M6			
28	Hex head screw		Length (mm): 25	99522923	1	pcs
			Thread: M12			
36	Nut		Thread: M10	96620484	6	pcs
49	Impeller			98375276	1	pcs
53.b	Spacer ring			96938908	1	pcs
54a	O-ring		Diameter: 71,5	97511807	2	pcs
			Material type: EPDM			
			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
156a	Bearing cover			97506936	2	pcs