

Inventflow: Grundfos A-partner

Grundfos NKE 150-200/224 A2F1AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nke/grundfos-nke-150-200-224-a2f1ae-sbqqe>

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Datasheet

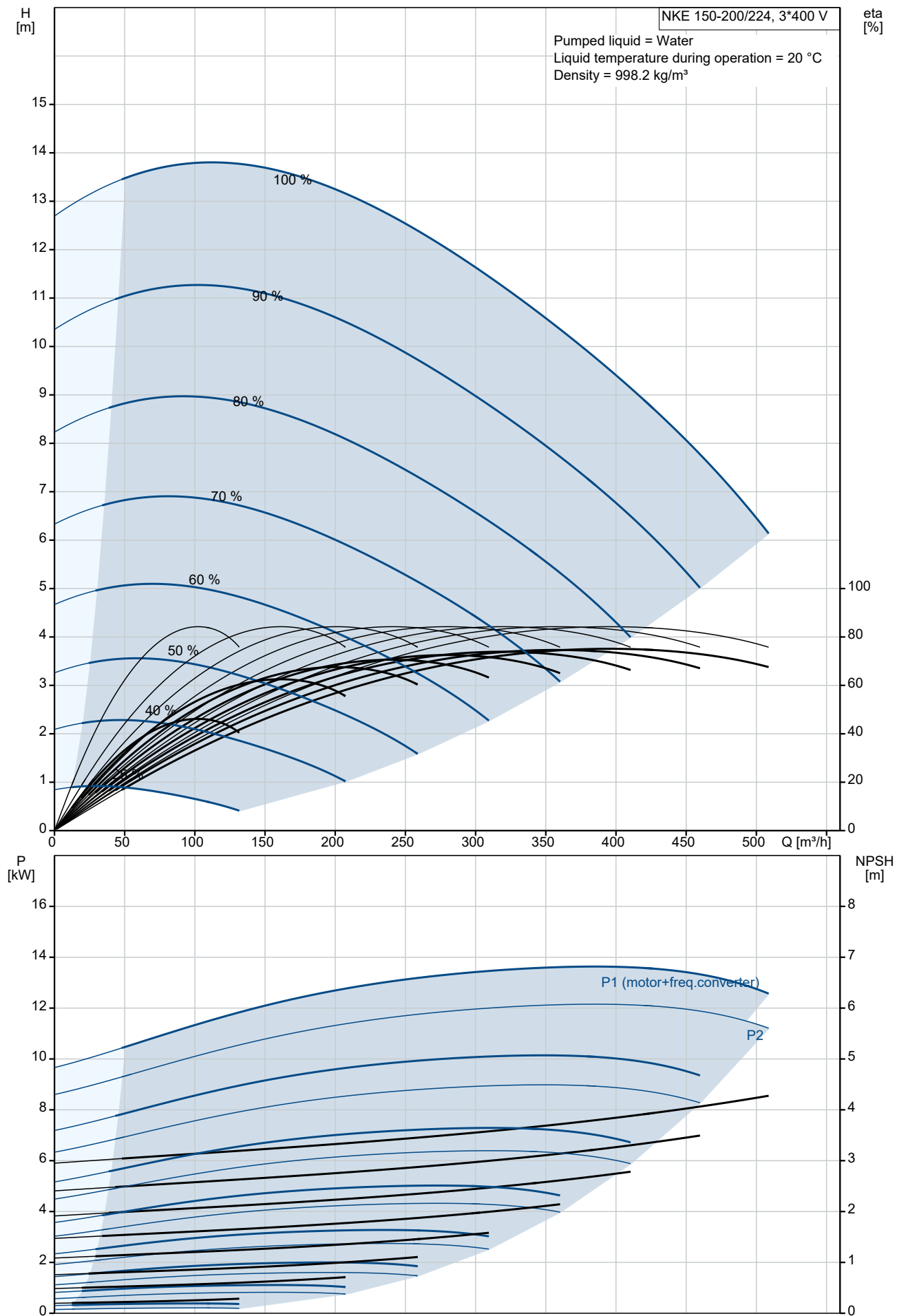


Qty.	Description
1	NKE 150-200/224 A2F1AE-SBQQE  Note! Product picture may differ from actual product Product No.: 98965137 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive 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, - unbalanced mechanical shaft seal according to EN 12756. The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection. An external sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer,

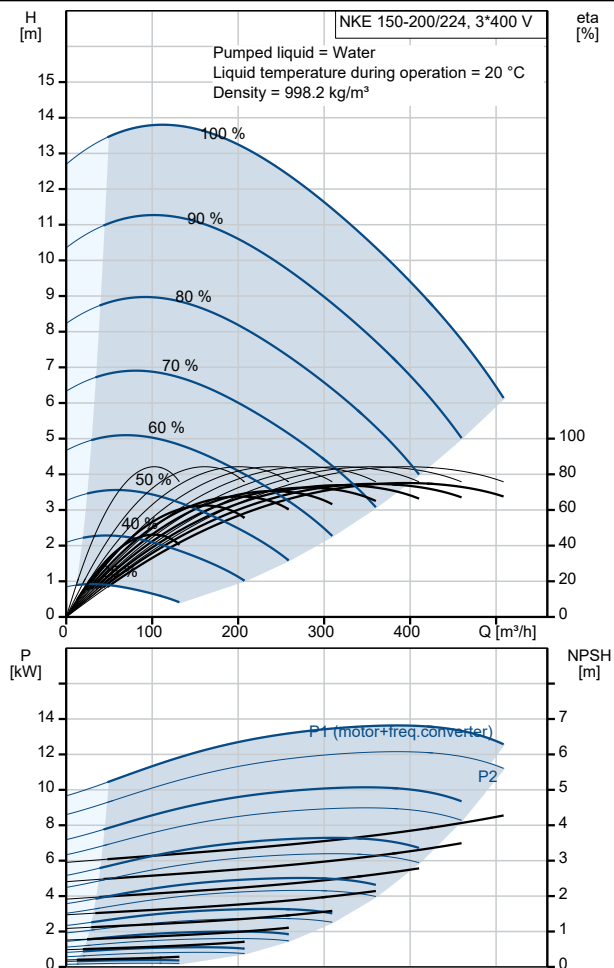
Qty.	Description
	Imax = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, Imax = 40 mA, - input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Controls: Frequency converter: Built-in 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: 1460 rpm Rated flow: 399.7 m³/h Pump with motor: Y Rated head: 9.631 m Actual impeller diameter: 224 mm Nominal impeller diameter: 200 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 ASTM class 30 Shaft: Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CED Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 10 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DN 200 Size of outlet connection: DN 150 Pressure rating for connection: PN 10 Coupling type: Flexible w/spacer Base frame design: EN/ISO Grouting: N Electrical data: Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 30.0-25.4 A Cos phi - power factor: 0.90-0.85 Rated speed: 240-1750 rpm

Qty.	Description
	Efficiency: IE3 92,1% Motor efficiency at full load: 92.1 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 86906223 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 530 kg Gross weight: 597 kg Shipping volume: 1.56 m³ Country of origin: HU Custom tariff no.: 84137059

98965137 NKE 150-200/224 A2F1AE-SBQQE 50 Hz

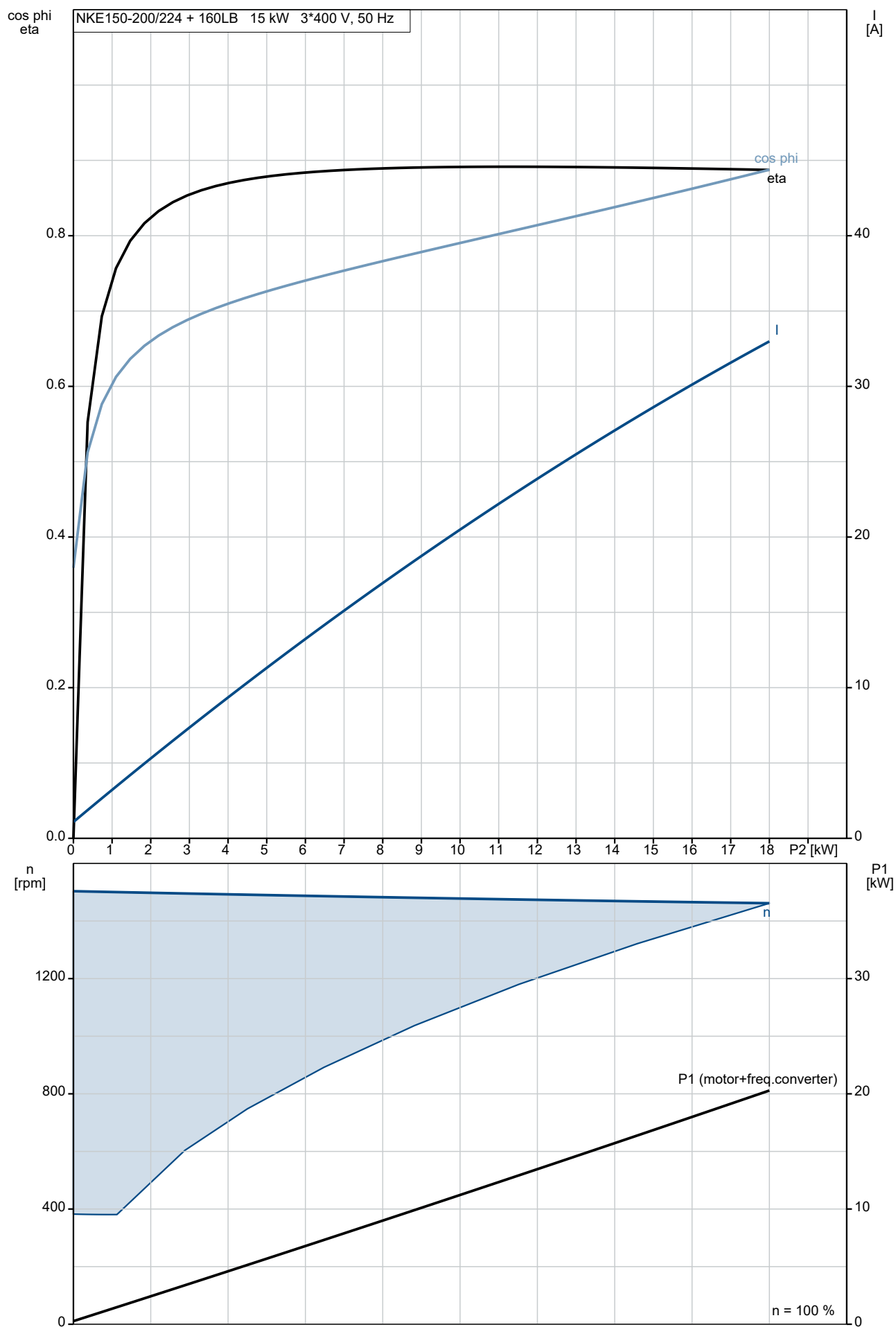


Description	Value
General information:	
Product name:	NKE 150-200/224 A2F1AE-SBQQE
Product No:	98965137
EAN number:	5712604363706
Technical:	
Pump speed on which pump data are based:	1460 rpm
Rated flow:	399.7 m³/h
Pump with motor:	Y
Rated head:	9.631 m
Actual impeller diameter:	224 mm
Nominal impeller diameter:	200
Shaft diameter:	32 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:	40 °C
Maximum operating pressure:	10 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 200
Size of outlet connection:	DN 150
Pressure rating for connection:	PN 10
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:	160LB
IE Efficiency class:	IE3
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	30.0-25.4 A
Cos phi - power factor:	0.90-0.85
Rated speed:	240-1750 rpm
Efficiency:	IE3 92,1%
Motor efficiency at full load:	92.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

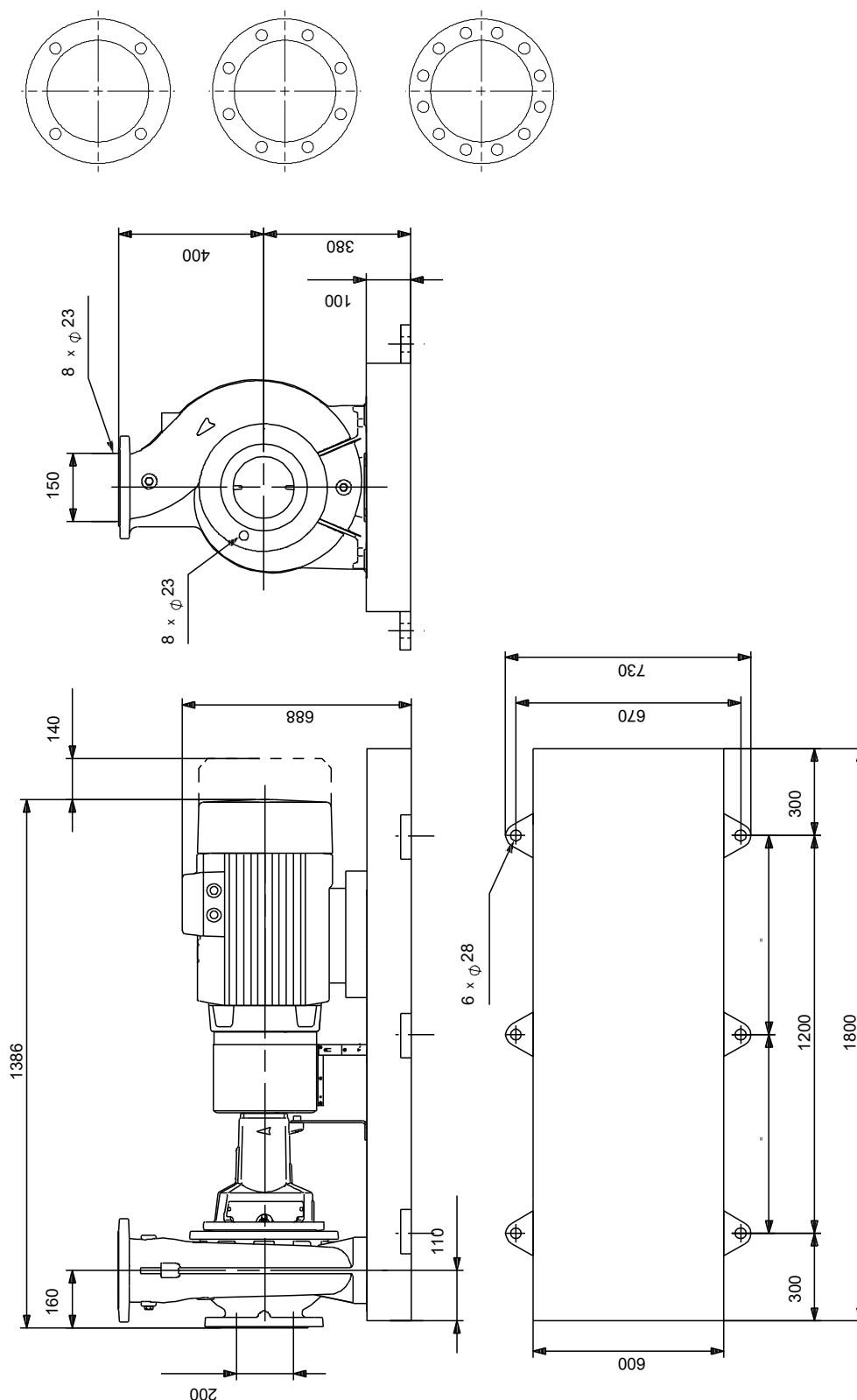


Description	Value
Motor protec:	YES
Motor No:	86906223
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	530 kg
Gross weight:	597 kg
Shipping volume:	1.56 m ³
Country of origin:	HU
Custom tariff no.:	84137059

98965137 NKE 150-200/224 A2F1AE-SBQQE 50 Hz



98965137 NKE 150-200/224 A2F1AE-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 NKE 150-200/224, Product No. 98965137
Produced After 1218 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			96579599	1	pcs
111	Ball bearing			96607904	1	
53	Ball bearing			96607904	1	
53.a	O-ring		Diameter: 89,5		1	
			Material type: EPDM			
			Thickness: 3			
109	O-ring		Diameter: 89,5		1	
			Material type: EPDM			
			Thickness: 3			
156a	Bearing cover				2	
159f	Retaining ring				2	
159a	V-ring				2	
-	Kit, bearing bracket			95131794	1	pcs
7.k	Hex socket head cap screw		Length (mm): 10		4	
			Thread: M6			
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			96579802	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		6	
			Thread: M6			
89.b	Socket set screw		Length (mm): 8		1	
			Thread: M6			
89	Rubber blocks for coupling				6	
11.a	Parallel key				1	
-	Kit, coupling guard			98078801	1	pcs
7b	Hex socket head cap screw		Length (mm): 10		4	
			Thread: M6			
7b	Retainer for coupling guard				1	
+ 7	Coupling guard cpl.				1	
-	Kit, cover			95131789	1	pcs
18	Plug				1	
36	Nut		Thread: M10		8	
77	Cover f/mech. seal				1	
-	Kit, foot for bearing bracket			96909493	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): 110		2	
			Thread: M12			
90.d	Hex head bolt		Length (mm): 70		2	
			Thread: M12			
90.d	Hex head screw		Length (mm): 30		2	
			Thread: M12			
90.c	Foot				1	
-	Kit, foot for coupling guard			96848500	1	pcs
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
- 7.d	Foot cpl.				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
7l	Support f/coupling guard foot				1	
7h	Hex socket head cap screw				2	
7d	Foot for coupling guard				1	
66	Washer				2	
66	Washer				2	
-	Kit, nut			96939130	1	pcs
11	Parallel key				1	
-	36	Nut			1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M18		1	
-	Kit, pump housing			95131737	1	pcs
-	6	Pump housing			1	
26	Staybolt		Length (mm): 45 Thread: M10		8	
45	Wear ring				1	
20	Plug				2	
36	Nut		Thread: M10		16	
-	Kit, rubber blocks f. coupling			96480016	1	pcs
89	Rubber blocks for coupling				6	
-	Kit, shaft			96039655	1	pcs
11.a	Parallel key				1	
11	Parallel key				1	
51	Shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M18		1	
-	Kit, shaft cover			96809957	1	pcs
124d	Shaft guard				1	
124d	Shaft guard				1	
124.d	Pan head screw				4	
-	Spare, wear ring			96810109	1	pcs
45	Wear ring				1	
-	Spare, wear ring			96810110	1	pcs
45	Wear ring				1	
-	V-ring			96871238	1	pcs
159a	V-ring				2	
-	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 Length (mm): 40 Thread: M5		3	
-	Kit, connector plugs			96348923	1	
	Connector plug 5-pole				1	
	Connector plug 4-pole				1	
	Connector plug 4-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug				1	
-	273	Kit, control board		96348918	1	
	Service kit instruction				1	
	Controlboard				1	
-	Kit, end shield			96796660	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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 cover			96830826	1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
196	Diaphragm				1	
-	Kit, foot			96796665	1	
191	Foot				2	
192	Hex socket head cap screw				4	
194	Lock washer				4	
194	Nut				4	
-	Kit, funct. module - E-pump			96348929	1	
263	MGE large I/O add-on				1	
-	Kit, funct. module -Geni/RS485			96348932	1	
263	Add-on module, cpl. w/plugs				1	
-	Kit, gaskets			96798508	1	
184	O-ring	Diameter: 235			2	
275	Kit, inverter board			96348920	1	
-	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, motor			96844404	1	
	Flex insulation				3	
	EMC filter				1	
	Cover cpl.				1	
	Fan				1	
	Motor				1	
99a	Retaining ring				1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
177	Torx Screw				1	
185.b	Nut				4	
185.b	Nut				4	
191	Foot				2	
192	Hex socket head cap screw				4	
194	Lock washer				4	
196	Diaphragm				1	
273a	Pan head thread forming screw				4	
-	Kit, ND-end shield cpl.			96932023	1	
32b	Waved washer				1	
156.a	End shield NDE				1	
157	O-ring				1	
159.b	V-ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
185.c	Nut				4	
185	Hex socket head cap screw				4	
195.b	Grease nipple				1	
-	Kit, opr. panel			96348924	1	
259	Operation panel				1	
274	Kit, rectifier board			96348921	1	
-	Kit, shaft grounding ring			96932121	1	
	Ring				1	
-	Kit, terminal box			96348914	1	
164	Cover cpl.				1	
166	Pan head thread forming screw				5	
251	Terminal box				1	
277	Blind cover				1	
283	Motor cover cpl.				1	
284	Cover				1	
-	Kit, varistor			96348917	1	
279.b	Pan head thread forming screw				2	
279	Varistor				1	
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: M12	96620479	8	pcs	
36	Nut	Thread: M10	96620484	8	pcs	
49	Impeller		96794662	1	pcs	
54	Ball bearing		98638919	2	pcs	
67	Nut	Thread: M18	92526535	1	pcs	
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53	92547617	1	pcs	
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53	97511825	1	pcs	
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53	97757671	1	pcs	
77a	Pan head screw		99266550	4	pcs	
105b	Spacer		96591277	1	pcs	
109	O-ring	Diameter: 89,5 Material type: EPDM Thickness: 3	97511809	2	pcs	
156a	Bearing cover		97506937	2	pcs	