

Inventflow: Grundfos A-partner

Grundfos NKE 32-250/244 S2A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nke/grundfos-nke-32-250-244-s2a2f2ae-sbqqe>

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Datasheet

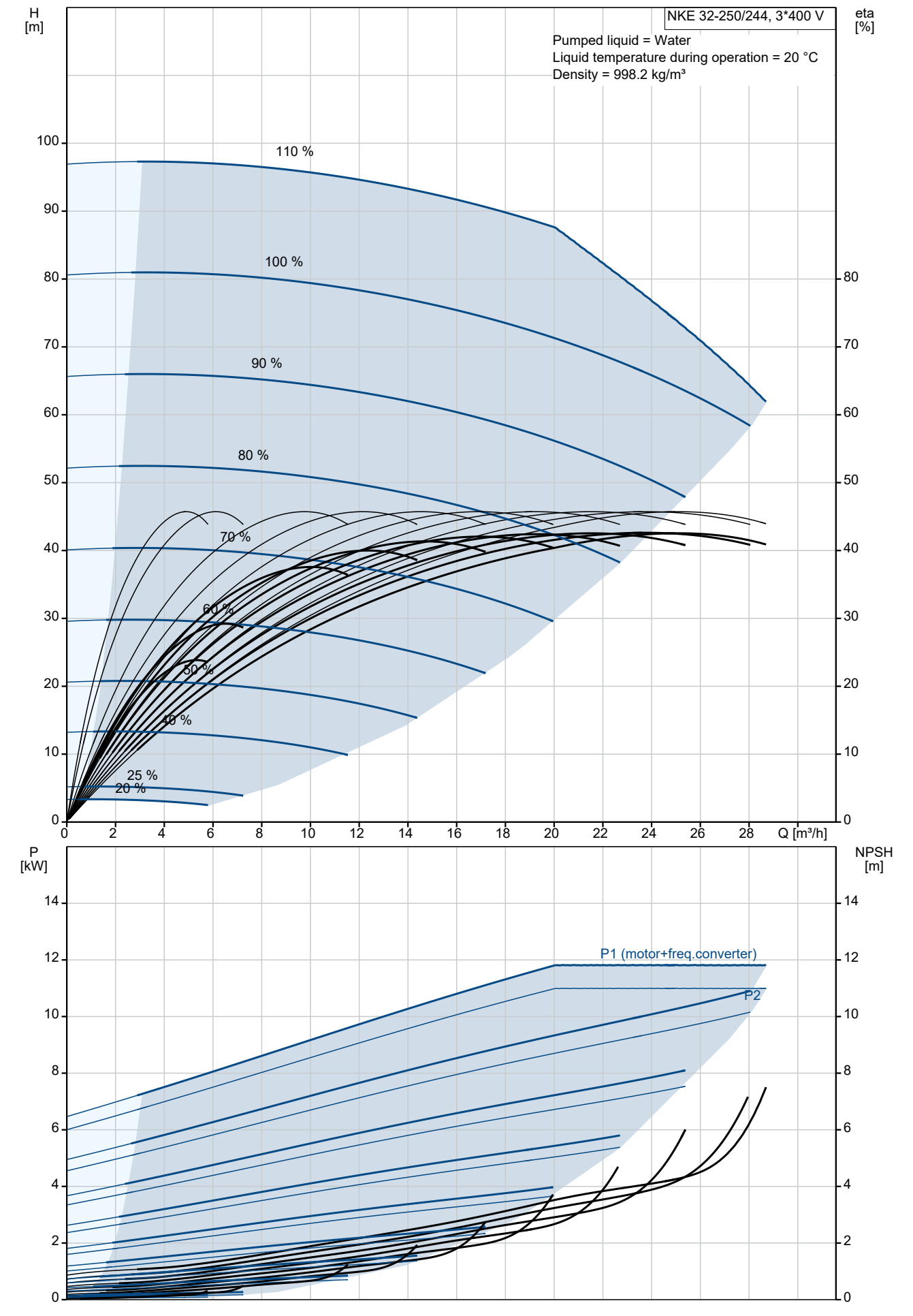


Qty.	Description
1	NKE 32-250/244 S2A2F2AE-SBQQE  Note! Product picture may differ from actual product Product No.: 99539645 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive 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,

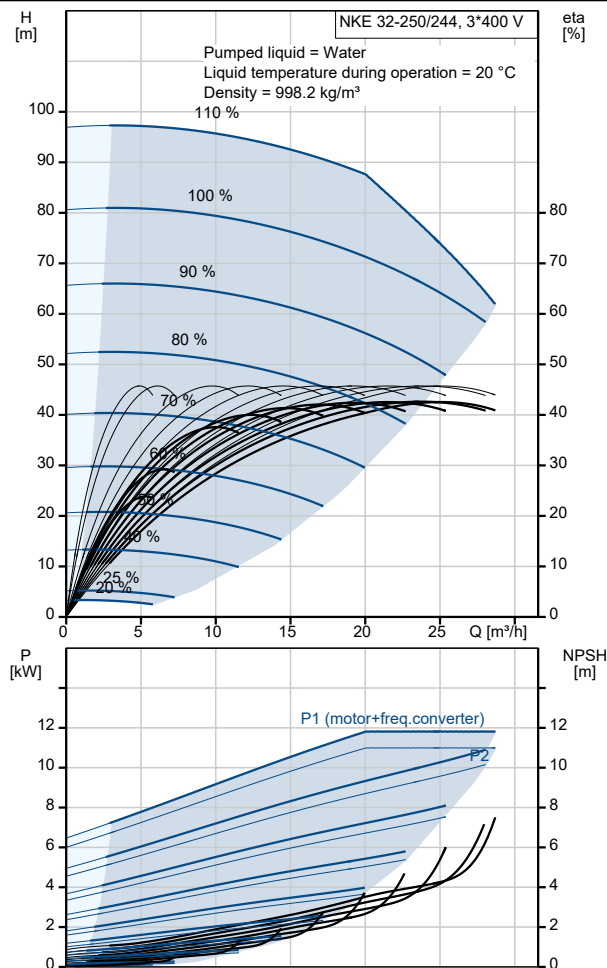
Qty.	Description
	Imax = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, Imax = 40 mA, - input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Controls: Frequency converter: Built-in Pressure sensor: Y 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: 2901 rpm Rated flow: 24.91 m³/h Pump with motor: Y Rated head: 64.04 m Actual impeller diameter: 244 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 ASTM class 30 Shaft: Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CED Installation: Maximum ambient temperature: 50 °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 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Grouting: N Electrical data: Motor type: 160MH IE Efficiency class: IE5 Rated power - P2: 11 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 20.3-16.0 A Cos phi - power factor: 0.93-0.90 Rated speed: 360-4000 rpm

Qty.	Description
	Efficiency: 93.1% Motor efficiency at full load: 93.1 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99306758 Type of pressure sensor: Differential Others: Minimum efficiency index, MEI ≥: 0.65 Net weight: 201 kg Gross weight: 310 kg Shipping volume: 1.11 m³ Country of origin: HU Custom tariff no.: 84137059

99539645 NKE 32-250/244 S2A2F2AE-SBQQE 50 Hz

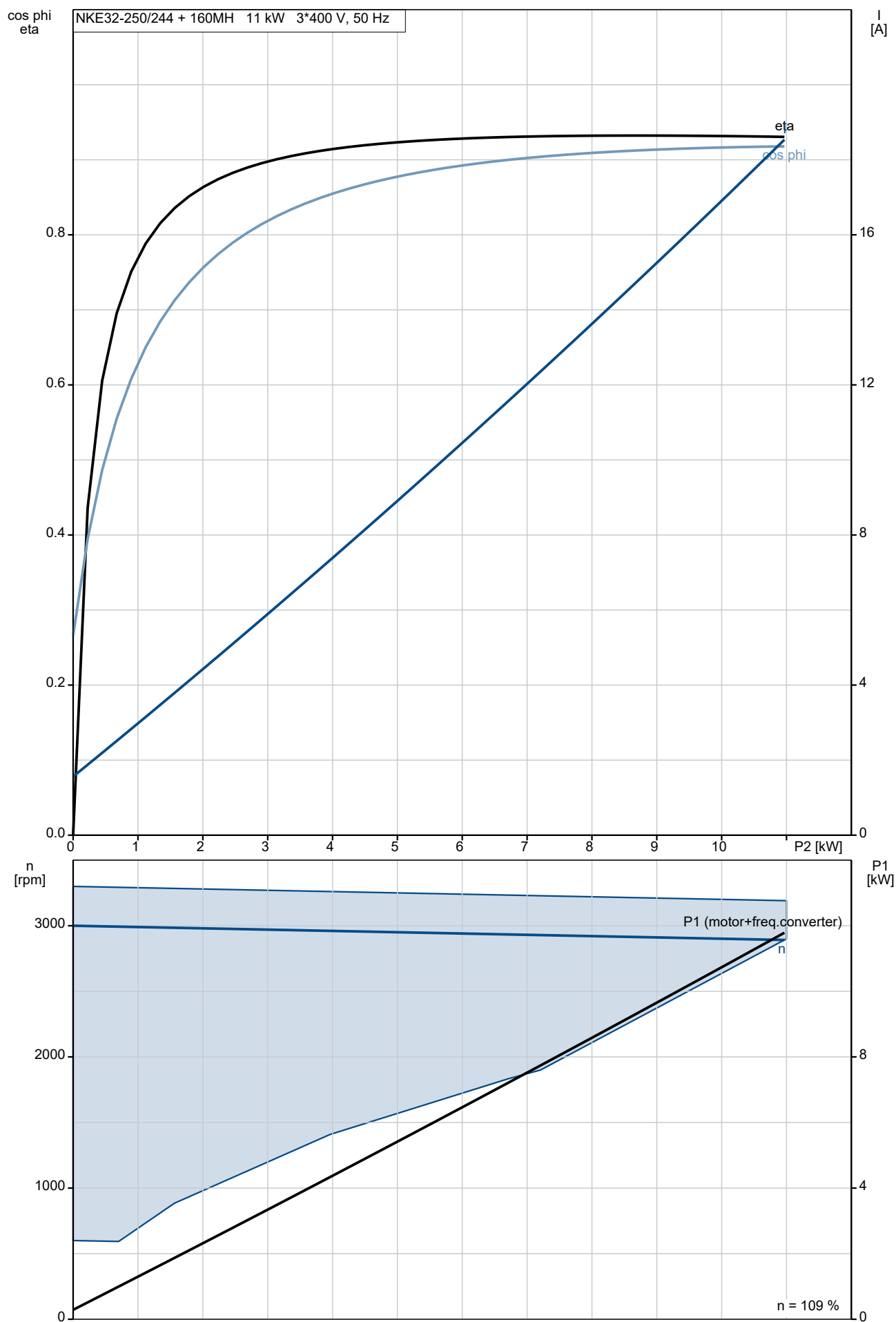


Description	Value
General information:	
Product name:	NKE 32-250/244 S2A2F2AE-SBQQE
Product No:	99539645
EAN number:	5713830751725
Technical:	
Pump speed on which pump data are based:	2901 rpm
Rated flow:	24.91 m³/h
Pump with motor:	Y
Rated head:	64.04 m
Actual impeller diameter:	244 mm
Nominal impeller 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:	50 °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 50
Size of outlet connection:	DN 32
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:	160MH
IE Efficiency class:	IE5
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	20.3-16.0 A
Cos phi - power factor:	0.93-0.90
Rated speed:	360-4000 rpm
Efficiency:	93.1 %
Motor efficiency at full load:	93.1 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F

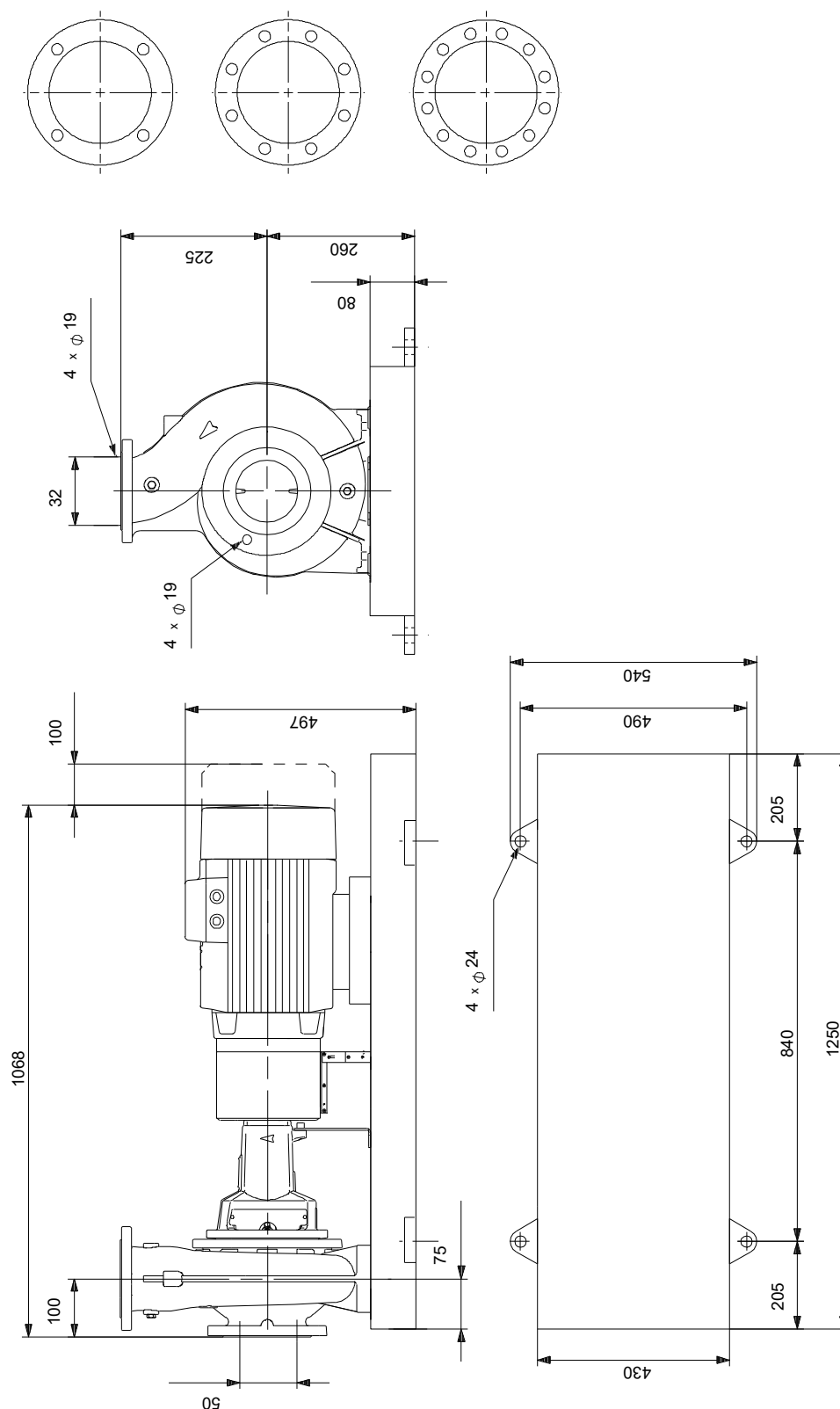


Description	Value
Motor protec:	ELEC
Motor No:	99306758
Type of pressure sensor:	Differential
Controls:	
Control panel:	HMI300 - Advanced
Function Module:	300
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.65
Net weight:	201 kg
Gross weight:	310 kg
Shipping volume:	1.11 m³
Country of origin:	HU
Custom tariff no.:	84137059

99539645 NKE 32-250/244 S2A2F2AE-SBQQE 50 Hz



99539645 NKE 32-250/244 S2A2F2AE-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 32-250/244, Product No. 99539645
Produced After 1905 (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, capillary tubes			99582282	1	pcs
508	Tube				1	
509	Capillary tube.				1	
510	Mounting bush.				2	
-	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	
7e	Hex socket head cap screw				3	
7c	Spacer f/coupling guard				1	
7	Guard				1	
94	Lock nut		Thread: M6		2	
-	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		1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
			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): 55		2	
			Thread: M12			
90.d	Hex socket head cap screw				2	
90.d	Hex head screw		Length (mm): 35MM		2	
			Thread: M12			
90.d	Hex head screw		Length (mm): 30		2	
			Thread: M12			
-	Kit, foot for coupling guard			96848478	1	pcs
7h	Hex head screw		Length (mm): 16		2	
			Thread: M8			
-	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 no wear ring			99563367	1	pcs
-	6	Pump housing			1	
6	Pump housing				1	
26	Staybolt		Length (mm): 35		10	
			Thread: M10			
45	Wear ring				1	
20	Pipe plug		Thread: R 3/8		2	
66a	Nut		Thread: M10		10	
-	Kit, sensor			99562726	1	pcs
	Cable tie				1	
	Housing				1	
	Clip				1	
	Fitting				2	
501	Sensor				1	
506	Pan washer head screw				2	
511	Cable				1	
-	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, bracket			99562727	1	pcs
505	Bracket				1	
-	Spare, wear ring			96810099	1	pcs
45	Wear ring				1	
-	Spare, wear ring			96810141	1	pcs
45	Wear ring				1	
-	Motor				1	pcs
-	Kit, Ball bearing			98881522	1	
111	Ball bearing				1	
154	Ball bearing				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
156d	Seal ring				1	
156c	Seal ring				1	
158	Waved washer				1	
-	Kit, Blanking plug			99052476	1	
252b	Blind plug				1	
252b	Plug cpl.				5	
-	Kit, cable gland			98736115	1	
293	Cable glands set				1	
-	Kit, connector plugs			98403113	1	
266	Connector plug 10-pole				1	
266	Connector plug 2-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
-	Kit, control box			98878620	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	
251a	Control box cpl.				1	
252b	Blind plug				1	
252b	Plug cpl.				5	
266	Connector plug 10-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
268a	Base				2	
268	Pan head screw				2	
273b	Battery				1	
273a	Cross recess Pan head screw				4	
273	Funct. Module cpl.				1	
275a	Pin				1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
286	Spacer				1	
287	Cover				1	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
290	Control panel, cpl.				1	
301	Jumper				1	
-	Kit, Control box upper			98869871	1	
251b	Pan head thread forming screw				4	
251b	Control box				1	
-	Kit, Control panel			98939971	1	
290	Control panel, cpl.				1	
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, end shield (NDE)			98869886	1	
150b	O-ring				1	
156c	Gamma ring				1	
156c	Seal ring				1	
156a	End shield NDE				1	
158	Waved washer				1	
200a	Grease nipple				1	
206	Pan head thread forming screw				4	
206	Hex socket head cap screw				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
207b	Nut				4	
-	Kit, fan			98869879	1	
152	Pan head thread forming screw				4	
156c	Seal ring				1	
156	Fan				1	
-	Kit, fan cover			98869873	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange (DE)			98869909	1	
	Glue				1	
150b	O-ring				1	
155a	Bearing cover				1	
156c	Seal ring				1	
156b	End shield DE				1	
185	Hex socket head cap screw				4	
201c	Drain plug				4	
201b	Blind plug				1	
201a	Grease nipple				1	
208b	Nut				4	
208a	Gasket				3	
208	Hex socket head cap screw		Designation: DIN912		3	
			Length (mm): 40			
			Thread: M5			
-	Kit, foot			98962891	1	
152	Pan head thread forming screw				4	
191	Foot				1	
-	Kit, Funct. module			98334777	1	
273a	Cross recess Pan head screw				5	
273	Funct. Module cpl.				1	
275a	Pin				1	
286	Spacer				1	
-	Kit, Isolation cover			98859523	1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, Lower part cpl.			98859573	1	
178	Pan head thread forming screw				4	
251a	Control box cpl.				1	
275a	Pin				1	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, motor			99010818	1	
	Hex socket head cap screw				2	
	Terminal				6	
	Washer				2	
111	Ball bearing				1	
150b	O-ring				2	
150	Stator w/housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
152	Pan head thread forming screw				2	
152	Pan head thread forming screw				4	
154	Ball bearing				1	
155a	Bearing cover				1	
156d	Seal ring				1	
156c	Seal ring				1	
156	Fan				1	
158	Waved washer				1	
172a	Parallel key		Designation: DS96 DIN 6885		1	
			Dimension: 12X8X90			
172	Shaft w/rotor				1	
185	Hex socket head cap screw				4	
187	Retaining ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
191	Foot				1	
201c	Drain plug				4	
203	Terminal plug				1	
205	Gasket				1	
206	Hex socket head cap screw				4	
207b	Nut				4	
208b	Nut				4	
208a	Gasket				3	
208	Hex socket head cap screw		Designation: DIN912		3	
			Length (mm): 40			
			Thread: M5			
-	Kit, plug			99028677	1	
152	Pan head thread forming screw				2	
203	Terminal plug				1	
205	Gasket				1	
-	Kit, screws			99028725	1	
268a	Base				2	
268	Pan head screw				2	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
	Lifting device			99140040	2	
99a	Circlip			99946400	1	
118a	Hex socket head cap screw			99409894	4	
152	Pan head thread forming screw			99834207	2	
152	Pan head thread forming screw			99814578	2	
186	Drain plug			99980519	4	
251d	Pan head thread forming screw			98995460	4	
266	Connector plug 3-pole			99421265	1	
7k	Hex socket head cap screw		Length (mm): 10	97506946	4	pcs
			Thread: M6			
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
19	Pipe plug		Thread: R 3/8	96620487	2	pcs
26	Staybolt		Length (mm): 35	96620483	10	pcs
			Thread: M10			
28	Hex head screw		Length (mm): 25	99522923	1	pcs
			Thread: M12			
45	Wear ring			99208825	1	pcs
49	Impeller			98517830	1	pcs
53.b	Spacer ring			96938908	1	pcs
54a	O-ring		Diameter: 71,5	97511807	2	pcs
			Material type: EPDM			
			Thickness: 3			
66a	Nut		Thread: M10	96620484	10	pcs
67	Nut		Thread: M14	92526531	1	pcs
72a	O-ring		Diameter: 253,6	92547618	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 253,6	92526509	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 253,6	97511826	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 253,6	97757672	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
77a	Pan head screw			99266550	4	pcs
156a	Bearing cover			97506936	2	pcs
510	Mounting bush.			99079267	2	pcs
511	Cable			99562728	1	pcs