

Inventflow: Grundfos A-partner

Grundfos NBE 65-200/198 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nbe/grundfos-nbe-65-200-198-af2abqqe>

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Datasheet

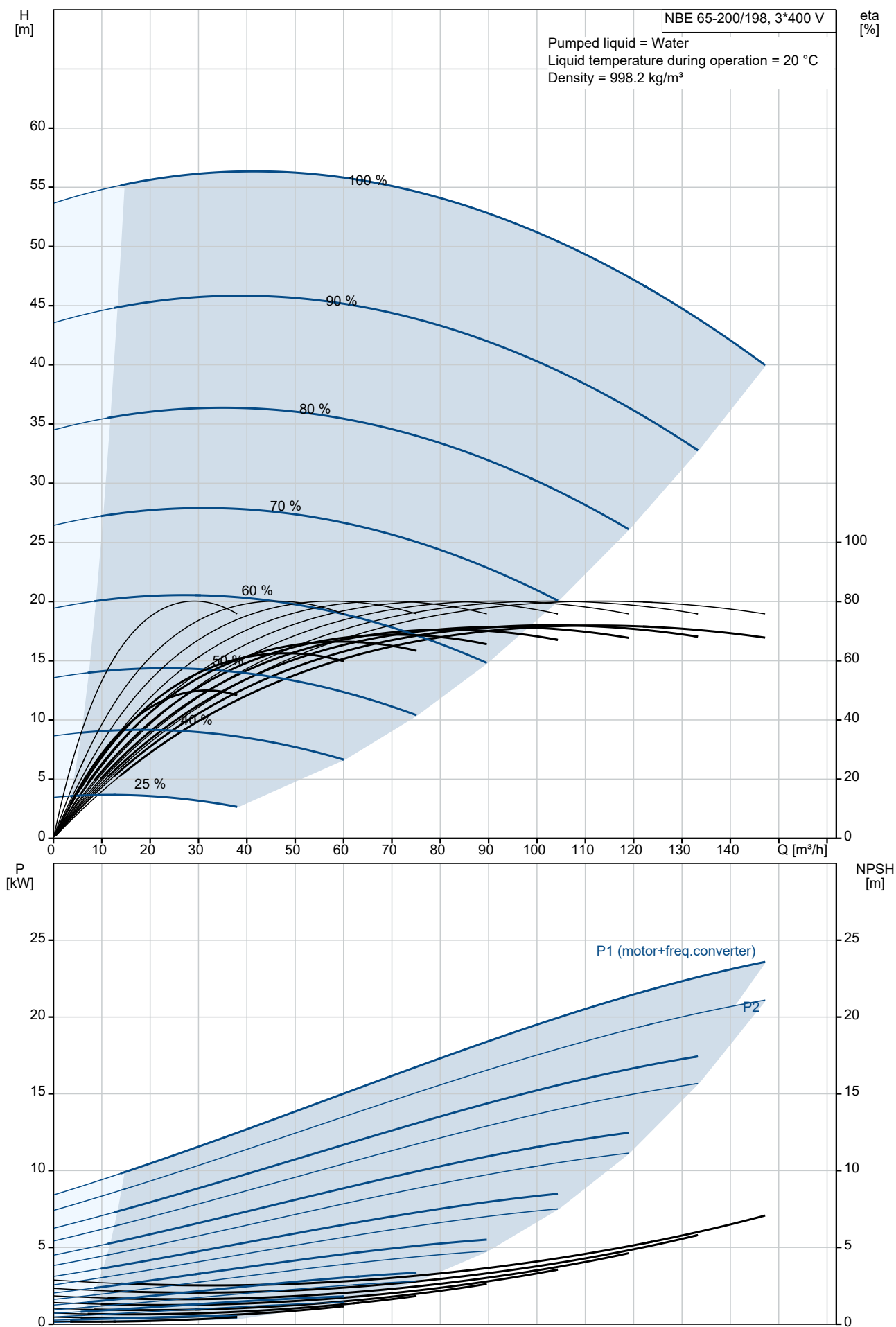


Qty.	Description
1	NBE 65-200/198 AF2ABQQE  Note! Product picture may differ from actual product Product No.: 97907877 Non-self priming, single-stage centrifugal Flange standard: pump according to EN 1092-2. The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids. 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. 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, I_{max} = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA,

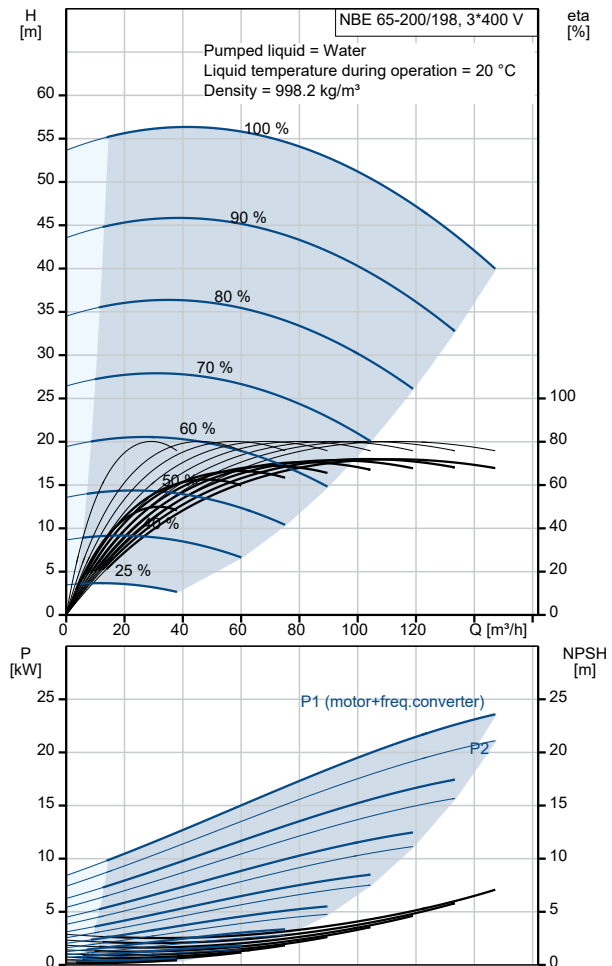
Qty.	Description
	- 24 V voltage supply for sensor, I_{max} = 40 mA, - input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Controls: Frequency converter: Built-in Pressure sensor: N Liquid: Pumped liquid: Water 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: 2940 rpm Rated flow: 117.6 m³/h Rated head: 47.48 m Actual impeller diameter: 198 mm Nominal impeller diameter: 200 Shaft seal arrangement: Single 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: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 65 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: No Support block: N Electrical data: IE Efficiency class: IE3 Rated power - P₂: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 43.5-35.0 A Cos phi - power factor: 0.91-0.90 Rated speed: 480-3540 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

Qty.	Description
	Motor No: 85901267 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 216 kg Gross weight: 241 kg Shipping volume: 0.707 m³ Country of origin: HU Custom tariff no.: 84137051

97907877 NBE 65-200/198 AF2ABQQE 50 Hz

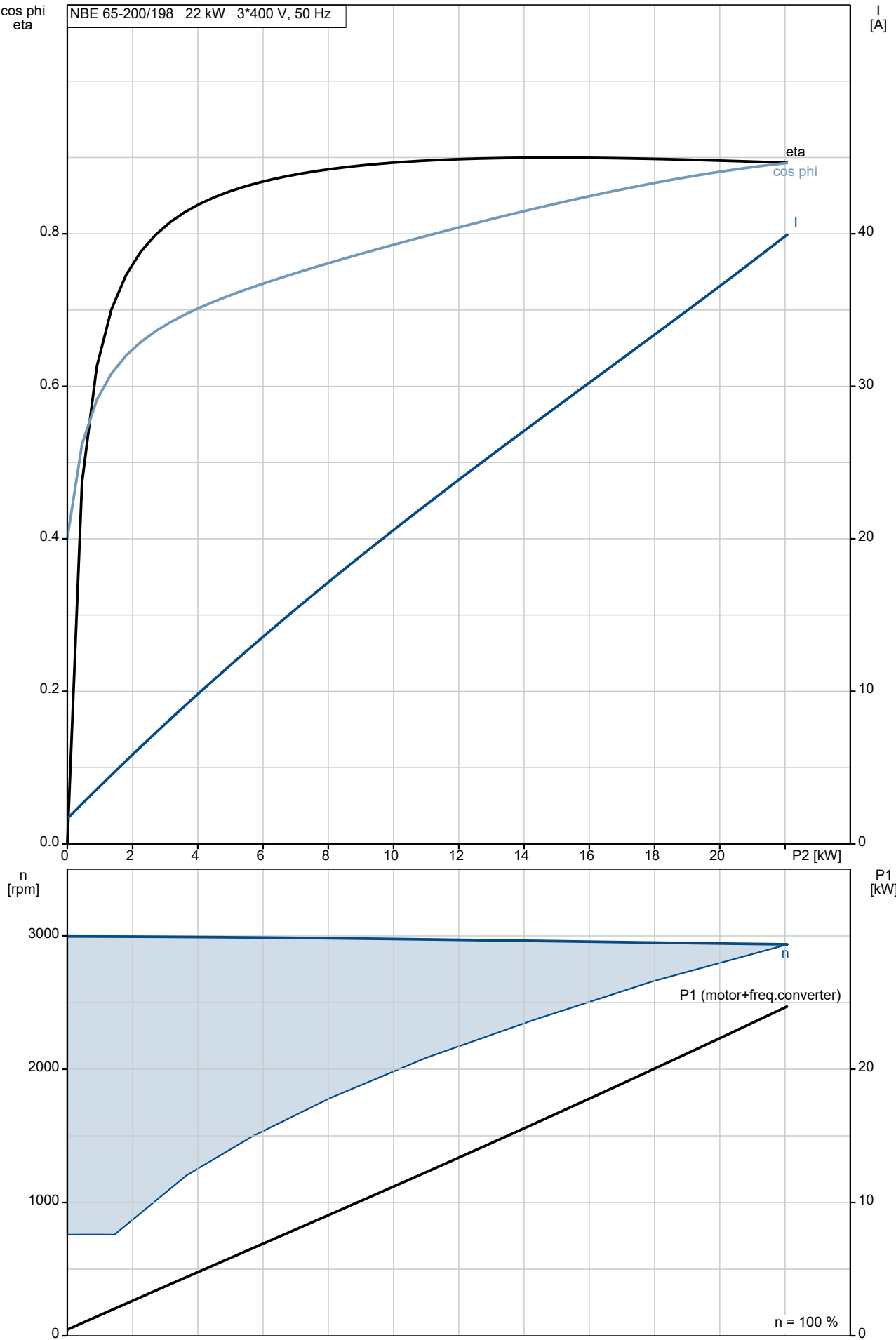


Description	Value
General information:	
Product name:	NBE 65-200/198 AF2ABQQE
Product No:	97907877
EAN number:	5710626184750
Technical:	
Pump speed on which pump data are based:	2940 rpm
Rated flow:	117.6 m³/h
Rated head:	47.48 m
Actual impeller diameter:	198 mm
Nominal impeller diameter:	200
Shaft seal arrangement:	Single
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
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:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 80
Size of outlet connection:	DN 65
Pressure rating for connection:	PN 16
Bearing lubrication:	Grease
Pump housing with feet:	No
Support block:	N
Connect code:	F2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
IE Efficiency class:	IE3
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	43.5-35.0 A
Cos phi - power factor:	0.91-0.90
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	85901267
Mount. design. acc. IEC 34-7:	IM B35

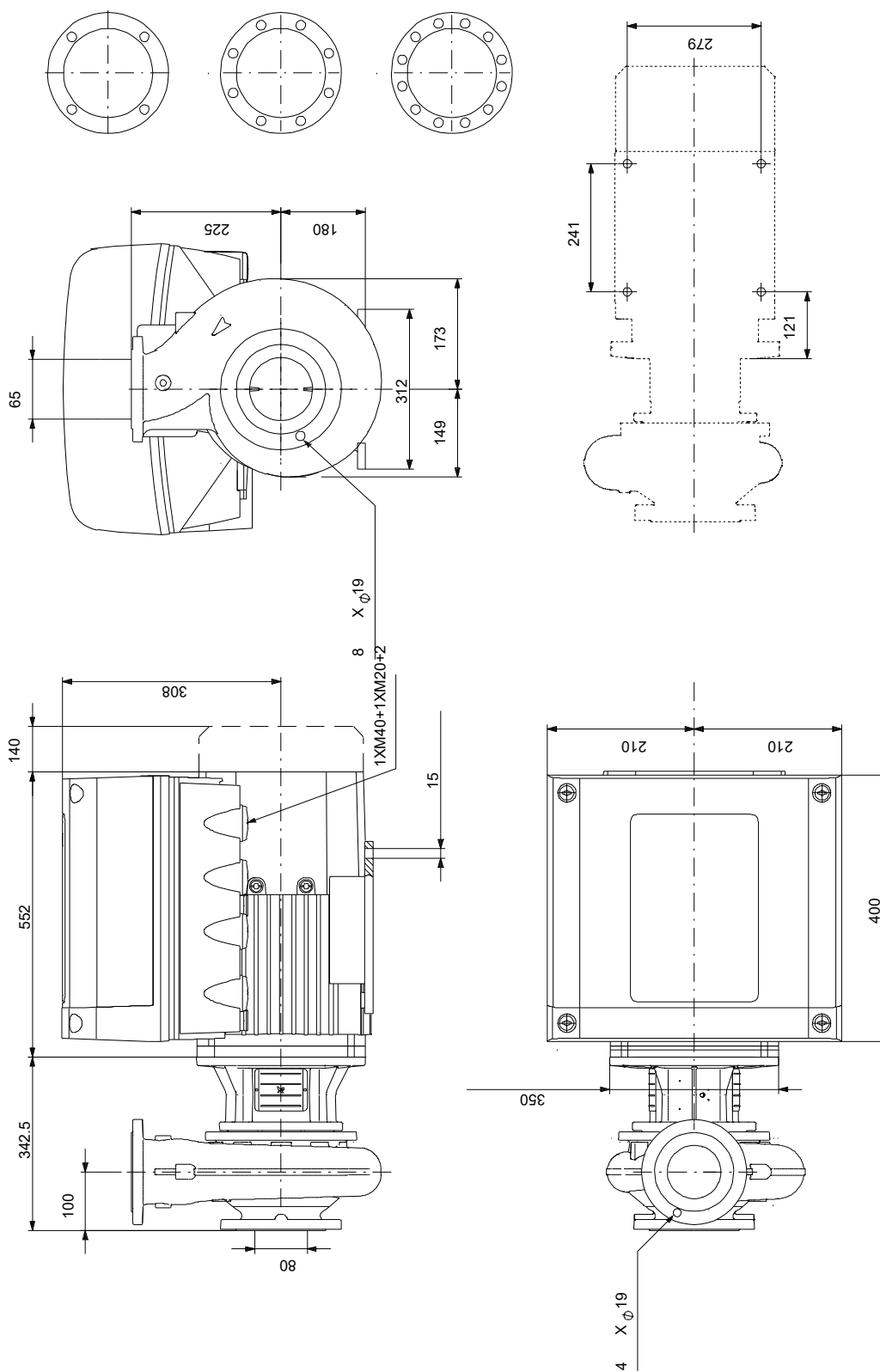


Description	Value
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	216 kg
Gross weight:	241 kg
Shipping volume:	0.707 m³
Country of origin:	HU
Custom tariff no.:	84137051

97907877 NBE 65-200/198 AF2ABQQE 50 Hz



97907877 NBE 65-200/198 AF2ABQQE 50 Hz



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

Spare parts NBE 65-200/198, Product No. 97907877
Produced After 2101 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
-	Bulk, Nut			92514630	1	pcs
67	Nut		Thread: M14		5	
-	Bulk, o-ring			92547617	1	pcs
72.a	O-ring		Diameter: 221,84 Material type: EPDM Thickness: 3,53		5	
-	Bulk, Plug vent			96620482	1	pcs
18	Plug				5	
-	Bulk, Shaft seal			99380916	1	pcs
105	Shaft seal				5	
-	Kit, coupling guard			96809946	1	pcs
7a	Pan head screw				4	
7	Coupling guard				2	
-	Kit, motor stool			98990923	1	pcs
1a	Motor stool				1	
7	Coupling guard				2	
18	Plug				1	
28	Hex head screw				4	
36	Hex nut		Thread: M16		4	
36	Nut		Thread: M10		8	
76a	Rivet				2	
77a	Pan head screw				4	
-	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			95131725	1	pcs
-	6 Pump housing				1	
26	Staybolt		Length (mm): 35 Thread: M10		8	
45b	Wear ring				1	
20	Pipe plug		Thread: R 3/8		2	
36	Nut		Thread: M10		8	
-	Kit, stub shaft			96039355	1	pcs
9	Socket set screw		Length (mm): 10 Thread: M8		2	
11	Parallel key		Dimension: 6X6X35		1	
51	Stub shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M14		1	
	Spare, O-ring			97757671	1	pcs
-	Spare, plug vent			98164277	1	pcs
18	Plug				1	
-	Spare, shaft seal			98434904	1	pcs
105	Shaft seal				1	
-	Spare, wear ring			99208818	1	pcs
45	Wear 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	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
208a	Gasket					3	
208	Hex socket head cap screw			Designation: DIN912		3	
				Length (mm): 40			
				Thread: M5			
-	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, 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, flange				96796807	1	
156. b	Flange					1	
159. b	Seal ring					1	
185	Hex socket head cap screw					4	
186	Drain plug					4	
195. a	Grease nipple					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, 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				96796817	1	
171	Parallel key					1	
-	Kit, lubrication nipple				96796671	1	
195. b	Grease nipple					2	
195. a	Grease nipple					1	
-	Kit, motor				96844389	1	
	Flex insulation					3	
	EMC filter					1	
	Cover cpl.					1	
	Motor					1	
99a	Retaining ring					1	
151	Fan cover					1	
152. a	Rubber bush					4	
152	Hex head cap screw					4	
156	Fan					1	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
177	Torx Screw						1
185. b	Nut						4
185. b	Nut						4
191. a	Foot						1
191	Foot						1
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.				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, opr. panel				96348924	1	
259	Operation panel						1
274	Kit, rectifier board				96348921	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
49	Impeller				98296639	1	pcs