

	Date: 15/08/2022	
Qty.		
1		
	Note! Product picture may differ from actual product	
	Product No.: 99104651	
	Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimension performance according to EN 733 (10 bar).	ns and rated
	Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radia port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and without disturbing the pump housing or pipework.	l discharge mpeller
	The unbalanced rubber bellows seal is according to DIN EN 12756.	
	The pump is close-coupled to a fan-cooled, permanent-magnet synchronous motor. The motor includes a frequency converter and PI controller in the motor terminal box. This enables con	tinuously
	variable control of the motor speed, which again enables adaptation of the performance to a given requ	irement.
	An external sensor can be connected if controlled pump operation is required for flow, differential press temperature control.	
	The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the indicator.	Grundfos Eye
	The display gives an intuitive and user-friendly interface to all functions.	-4
	The push-buttons are used to navigate through the menu structure to access pump and performance d enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".	ata on site and
	The Grundfos Eye indicator on the operating panel provides visual indication of pump status:	
	"Power on": Motor is running (rotating green indicator lights) or not running (permanently green	indicator lights)
	 "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellights) 	llow indicator
	 "Alarm": Motor has stopped (flashing red indicator lights). 	
	Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The relienables further settings as well as reading out of a number of parameters such as "Actual value", "Spe input" and total "Power consumption".	note control ed", "Power
	The back pull-out design means that the pump can be serviced by a single person without disturbing th housing or pipes.	e pump
	Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CE high-quality dip-painting process where an electrical field around the products ensures deposition of part thin, well-controlled layer on the surface.	D is a int particles as

Pump

The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust.

Wear rings used in pump housing and for impeller are made of bronze/brass.



15/08/2022

Qty. | Description

1

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber.

Date:

The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The pump housing has feet.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

Further product details

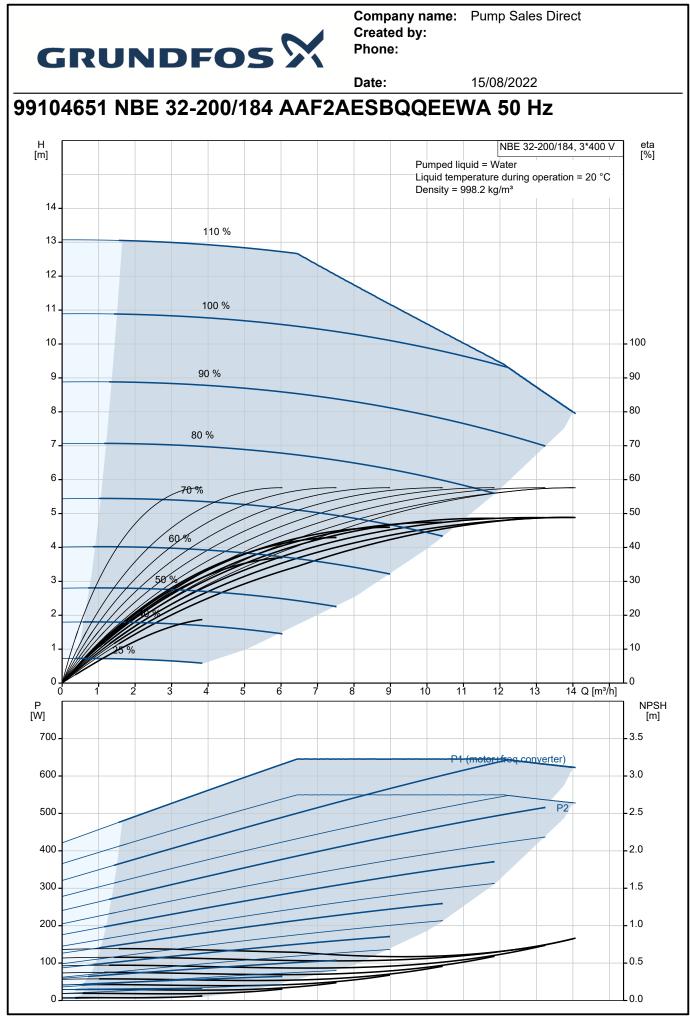
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls: Frequency converter: Pressure sensor:	Built-in N	
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³	
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal:	are based: 14.3 m³/h 8.7 m 184 mm 200 Single BQQE	1450 rpm



			Date:	15/08/2022
Qty.	Description			
1	Curve tolerance: Bearing design:	ISO9906:2012 3B2 Standard		
	Materials:			
	Pump housing:	Cast iron EN-GJL-250 ASTM class 35		
	Wear ring: Impeller:	Brass Cast iron EN-GJL-200 ASTM class 30		
	Internal pump house coating: Shaft:	CED Stainless steel EN 1.4301 AISI 304		
	Installation: Range of ambient temperature: Maximum operating pressure: Pipe connection standard:	-20 50 °C 16 bar EN 1092-2		
	Size of inlet connection: Size of outlet connection: Pressure rating for connection:	DN 50 DN 32 PN 16		
	Bearing lubrication: Pump housing with feet: Support block (Yes/No):	Grease Yes N		
	Electrical data: IE Efficiency class:	IE5		
	Rated power - P2: Mains frequency:	0.55 kW 50 Hz		
	Rated voltage: Rated current:	3 x 380-500 V 1.30-1.25 A		
	Cos phi - power factor: Rated speed: Efficiency:	0.80-0.64 180-2000 rpm 84.6%		
	Motor efficiency at full load: Number of poles:	84.6 % 4		
	Enclosure class (IEC 34-5): Insulation class (IEC 85):	IP55 F		
	Motor No: Bearing insulation type N-end:	99305806 STEEL BEARING		
	Others: Minimum efficiency index, MEI ≥:	0.69		
	Net weight: Gross weight:	44 kg 54 kg		
	Shipping volume:	0.134 m ³		
	Danish VVS No.:	386100202		
	Country of origin: Custom tariff no.:	HU 84137051		



Printed from Grundfos Product Centre [2022.35.005]



				1 .4
Description	Value	H [m]	NBE 32-200/184, 3*400 V	eta [%]
General information:		14	Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NBE 32-200/184 AAF2AESBQQEEWA	13	10 Density = 998.2 kg/m ³	
Product No:	99104651	12 -		
EAN number:	5712606839506	11 -	100 %	
Technical:				100
Pump speed on which pump data are based:	1450 rpm	9-	90 %	- 100 - 90
Rated flow:	14.3 m³/h	8 -		- 80
Rated head:	8.7 m	7	80 %	70
Actual impeller diameter:	184 mm	6 -		- 60
Nominal impeller diameter:	200		70 %	
Shaft seal arrangement:	Single	5-	6004	- 50
Shaft diameter:	24 mm	4		- 40
Code for shaft seal:	BQQE	3	150,8	- 30
Curve tolerance:	ISO9906:2012 3B2	2-////		20
Pump version:	A	1	20/0	_ 10
Bearing design:	Standard			
Materials:		0	2 4 6 8 10 12 Q [m³/h]	Lo
Pump housing:	Cast iron	P [W]		NPSH
Pump housing:	EN-GJL-250			[m]
Pump housing:	ASTM class 35	600 -	P1 (motor+freq converter)	- 3.0
Wear ring:	Brass	500 -	P2	- 2.5
Impeller:	Cast iron			
Impeller:	EN-GJL-200	400 -		- 2.0
Impeller:	ASTM class 30	300 -		- 1.5
Internal pump house coating:	CED	200		1.0
Material code:	A	100		- 0.5
Code for rubber:	E			
Shaft:		0		L 0.0
Shaft:	Stainless steel EN 1.4301			
		225.5	274 100 32	
Shaft:	AISI 304			()
Installation:		(4)		Le la
Range of ambient temperature:	-20 50 °C			600
Maximum operating pressure:	16 bar			
Pipe connection standard:	EN 1092-2			(All and a second
Size of inlet connection:	DN 50	100	240	
Size of outlet connection:	DN 32	8	8	< 910 ×
Pressure rating for connection:	PN 16	4 X •19		
Bearing lubrication:	Grease			
Pump housing with feet:	Yes			
Support block (Yes/No):	N		┟╨┫╘─────┫╔╢	
Connect code:	F2			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C	a	<u> </u>	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	PE		
Electrical data:				
IE Efficiency class:	IE5			
Rated power - P2:	0.55 kW	-91/F 00		
Mains frequency:	50 Hz	av bar b		
Rated voltage:	3 x 380-500 V			
Rated current:	1.30-1.25 A	-31/P 00		
Cos phi - power factor:	0.80-0.64			
Rated speed:	180-2000 rpm			
Efficiency:	84.6%			
Motor efficiency at full load:	84.6 %			
Number of poles:	4			

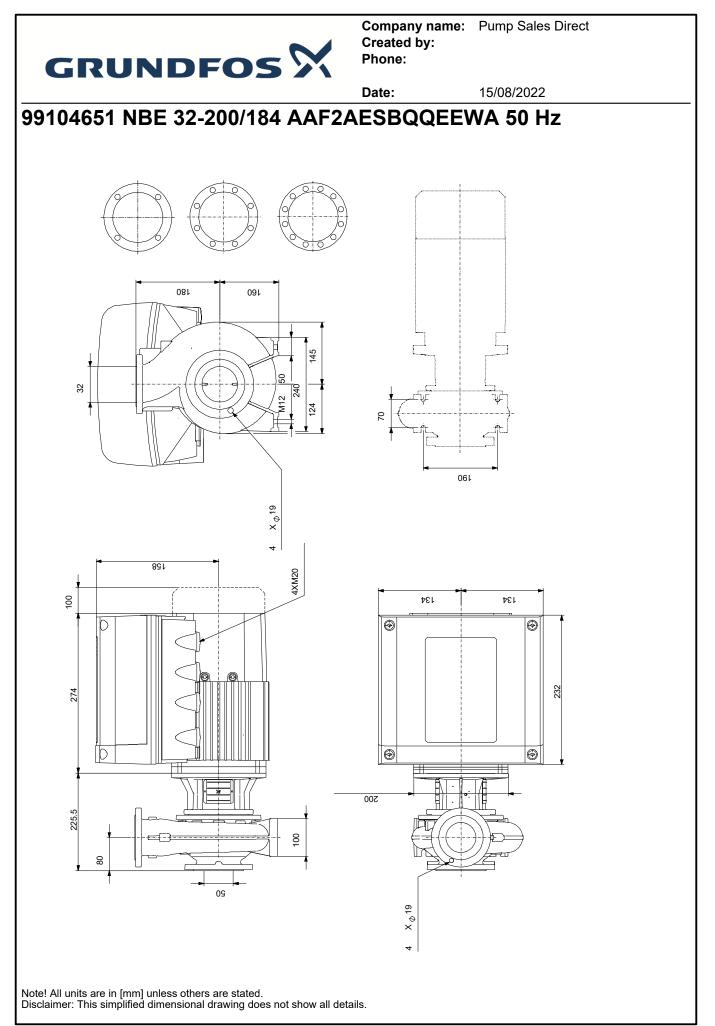
Printed from Grundfos Product Centre [2022.35.005]

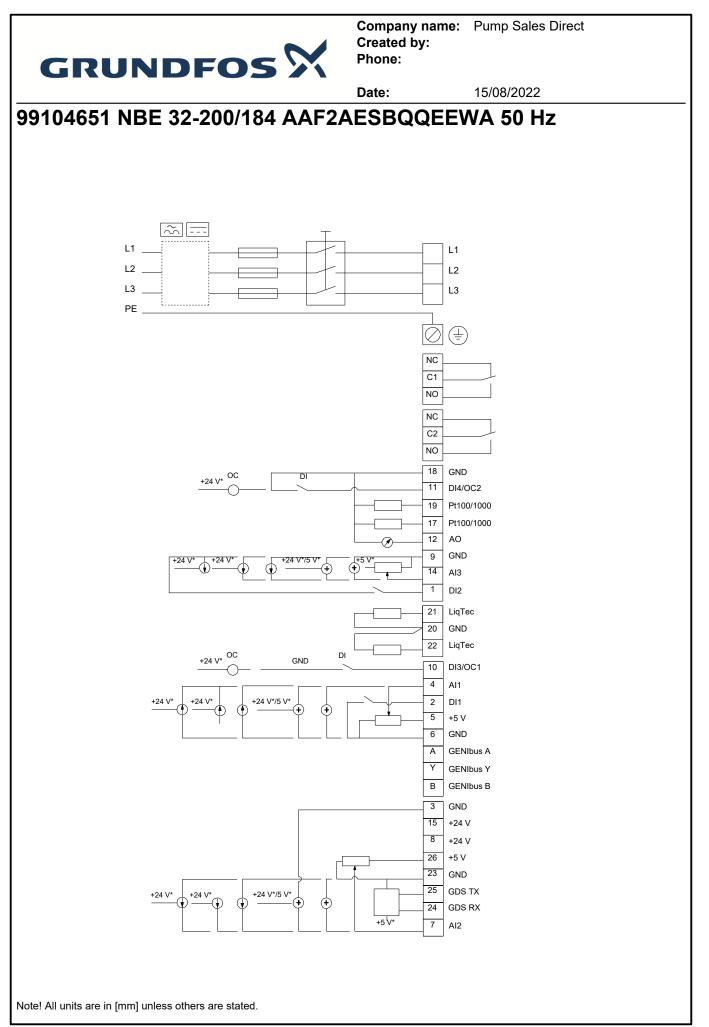


15/08/2022

Date:

Description	Value
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	ELEC
Motor No:	99305806
Mount. design. acc. IEC 34-7:	IM V1/B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.69
Net weight:	44 kg
Gross weight:	54 kg
Shipping volume:	0.134 m³
Danish VVS No.:	386100202
Country of origin:	HU
Custom tariff no.:	84137051







Order Data:					
Position	Your pos.	Product name	Amount	Product No	Total
		NBE 32-200/184	1	99104651	Price or reques
					reques