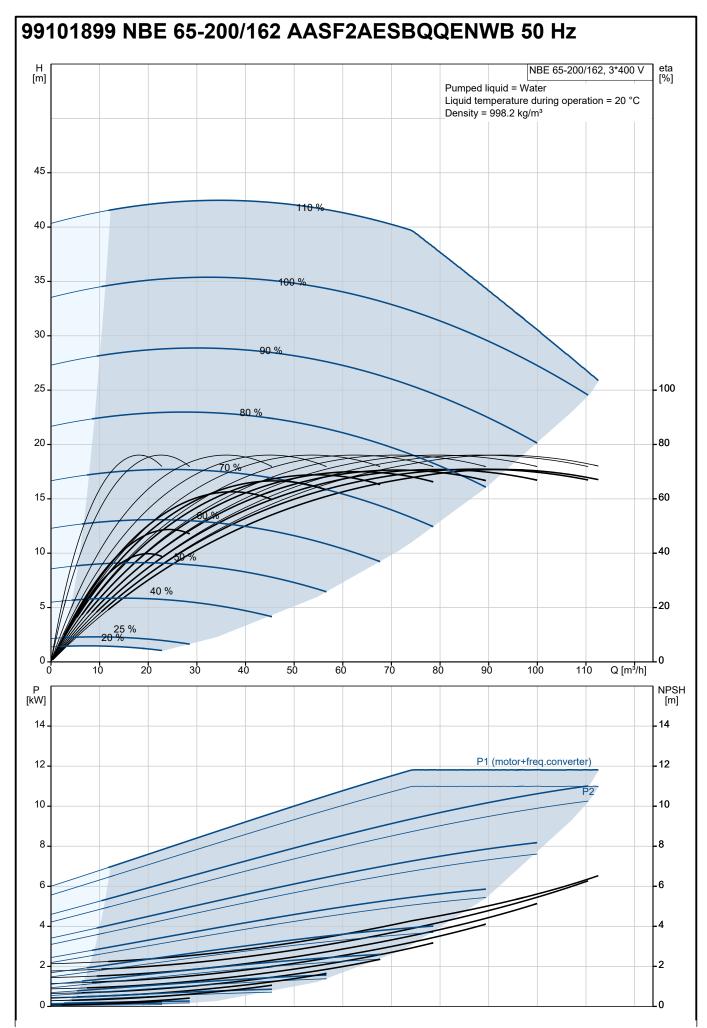
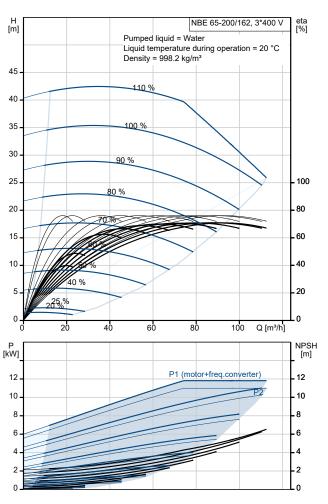


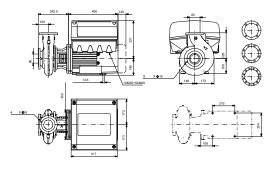
Description								
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.								
Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. The pump housing has no feet.								
							The pump housing has no lock. The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ens clearance between the motor stool/motor flange and the foundation.	
Motor	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.								
quick-rising ten	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.							
		s for these connections:						
	licated digital inpute	ut 0 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V						
	• • • • • • • • • • • • • • • • • • • •	entiometer and sensor						
	• • • •	nput or open-collector output						
	s Digital Sensor i							
	Itage supply for se	• •						
	• • • •	potential-free contacts)						
	s connection	u /						
- interface	e for Grundfos Cll	M fieldbus module.						
high-quality dip a thin, well-con	trolled layer on th	e surface.						
a thin, well-con	trolled layer on th	e surface.						
a thin, well-con	trolled layer on th	e surface.						
a thin, well-con <b>Technical da</b> Controls:	trolled layer on th ata	ie surface.						
a thin, well-con	trolled layer on th <b>ata</b> verter:	Built-in						
a thin, well-con Technical da Controls: Frequency con	trolled layer on th <b>ata</b> verter:	Built-in						
a thin, well-con <b>Technical da</b> Controls: Frequency con Pressure senso Liquid: Pumped liquid:	trolled layer on th <b>ata</b> verter: or:	Built-in						
a thin, well-con <b>Technical da</b> Controls: Frequency con Pressure senso Liquid: Pumped liquid: Liquid tempera	trolled layer on th ata verter: or: ture range:	Built-in N						
a thin, well-con <b>Technical da</b> Controls: Frequency con Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid	trolled layer on th ata verter: or: ture range:	Built-in N Water -25 120 °C 20 °C						
a thin, well-con <b>Technical da</b> Controls: Frequency con Pressure senso Liquid: Pumped liquid: Liquid tempera	trolled layer on th ata verter: or: ture range:	Built-in N Water -25 120 °C						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical:	trolled layer on th ata verter: br: ture range: temperature:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup>						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or	trolled layer on th ata verter: or: ture range:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow:	trolled layer on th ata verter: br: ture range: temperature:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head:	trolled layer on th ata verter: or: ture range: temperature: n which pump dat	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller	trolled layer on th ata verter: or: ture range: temperature: n which pump dat diameter:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impellor	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> a are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arran	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> a are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal array Code for shaft seal	trolled layer on th ata verter: or: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arran Code for shaft seal arran	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal array Code for shaft seal	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e:	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arran Code for shaft seal Bearing design Materials:	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arran Code for shaft seal Bearing design	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard Cast iron EN-GJL-250						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arrar Code for shaft seal arrar Curve tolerance Bearing design Materials: Pump housing:	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard Cast iron EN-GJL-250 ASTM class 35						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arrar Code for shaft s Curve tolerance Bearing design Materials: Pump housing: Wear ring:	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard Cast iron EN-GJL-250 ASTM class 35 Brass						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arrar Code for shaft seal arrar Curve tolerance Bearing design Materials: Pump housing:	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron						
a thin, well-con <b>Technical da</b> Controls: Frequency com Pressure senso Liquid: Pumped liquid: Liquid tempera Selected liquid Density: Technical: Pump speed or Rated flow: Rated head: Actual impeller Nominal impeller Shaft seal arrar Code for shaft s Curve tolerance Bearing design Materials: Pump housing: Wear ring:	trolled layer on th ata verter: br: ture range: temperature: n which pump dat diameter: er diameter: ngement: seal: e: :	Built-in N Water -25 120 °C 20 °C 998.2 kg/m <sup>3</sup> ta are based: 2901 rpm 88.33 m <sup>3</sup> /h 29.72 m 162 mm 200 Single BQQE ISO9906:2012 3B Standard Cast iron EN-GJL-250 ASTM class 35 Brass						

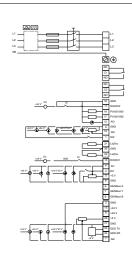
Qty.	Description	
1	Shaft:	Stainless steel EN 1.4301 AISI 304
	Installation: Range of ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Electrical data:	-20 50 °C 16 bar EN 1092-2 DN 80 DN 65 PN 16 Grease No Y
	IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 35): Motor No: Bearing insulation type N-end:	IE5 11 kW 50 Hz 3 x 380-500 V 20.3-16.0 A 0.93-0.90 360-4000 rpm 93.1% 93.1% 2 IP55 F 99306732 STEEL BEARING
	Others: Minimum efficiency index, MEI ≥ Net weight: Gross weight: Shipping volume: Danish VVS No.: Country of origin: Custom tariff no.:	: 0.70 125 kg 146 kg 0.509 m <sup>3</sup> 386103201 HU 84137051



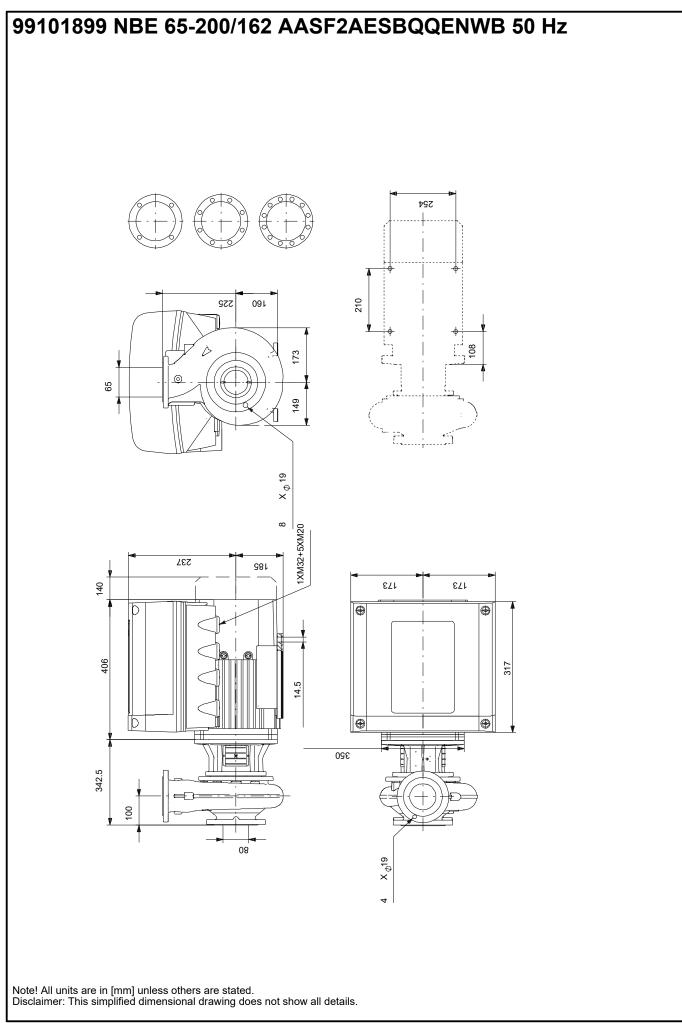
Description	Value	
General information:	NPE 65 200/462	
Product name:	NBE 65-200/162 AASF2AESBQQENWB	
Product No:	99101899	
EAN number:	5712606791095	
Technical:		
Pump speed on which pump data are based:	2901 rpm	
Rated flow:	88.33 m³/h	
Rated head:	29.72 m	
Actual impeller diameter:	162 mm	
Nominal impeller diameter:	200	
Shaft seal arrangement:	Single	
Shaft diameter:	24 mm	
Code for shaft seal:	BQQE	
Curve tolerance:	ISO9906:2012 3B	
Pump version:	AS	
Bearing design:	Standard	
Materials:	Costiron	
Pump housing:	Cast iron EN-GJL-250	
Pump housing:	ASTM class 35	
Pump housing: Wear ring:	ASTM class 35 Brass	
Impeller:	Cast iron	
Impeller:	EN-GJL-200	
Impeller:	ASTM class 30	
Internal pump house coating:	CED	
Material code:	A	
Code for rubber:	E	
Shaft:	- Stainless steel	
Shaft:	EN 1.4301	
Shaft:	AISI 304	
Installation:		
Range of ambient temperature:	-20 50 °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 (Yes/No):	Y	
Connect code:	F2	
Liquid: Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	-23 120 °C	
Density:	998.2 kg/m <sup>3</sup>	
Electrical data:		
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	
	F	
Insulation class (IEC 85):		
Insulation class (IEC 85): Built-in motor protection: Motor No:	ELEC 99306732	

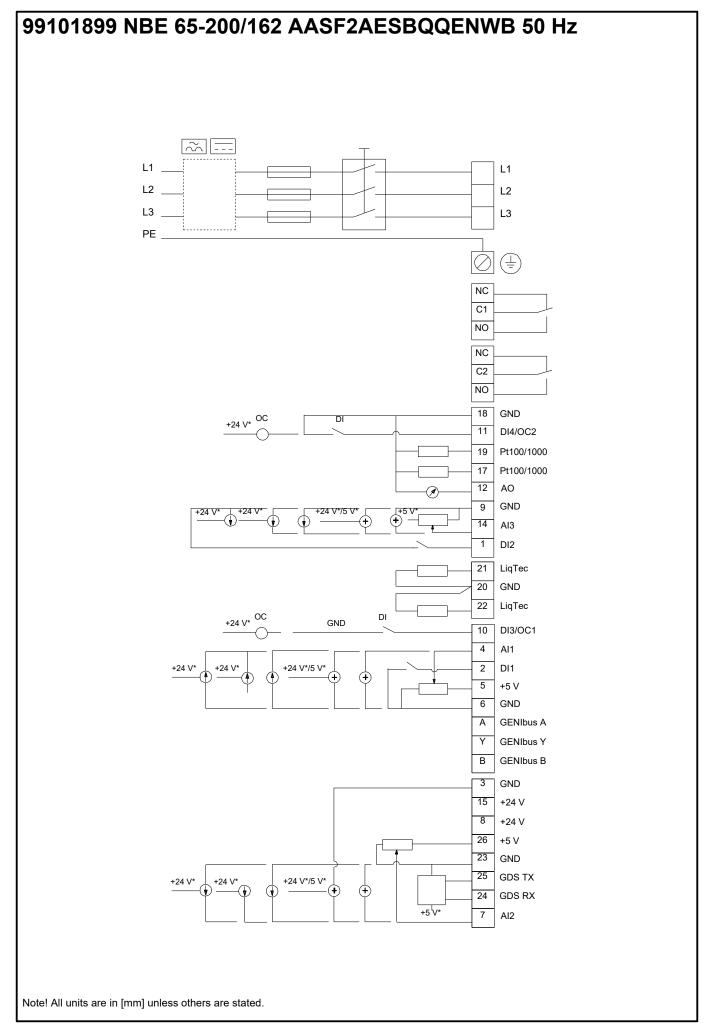






Description	Value		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Control panel:	HMI300 - Advanced		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	125 kg		
Gross weight:	146 kg		
Shipping volume:	0.509 m³		
Danish VVS No.:	386103201		
Country of origin:	HU		
Custom tariff no.:	84137051		





Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		NBE 65-200/162	1	99101899	Price or		
					reques		