

Qty. Description

1 NBE 40-200/219 AASF2AESBQQEOW1



Note! Product picture may differ from actual product

Product No.: [98979881](#)

Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is close-coupled to a fan-cooled asynchronous motor.

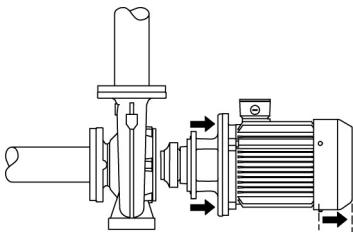
The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



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.

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.

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.

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)

Qty.	Description																																
1	<p>This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p>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 is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.</p> <p>Motor</p> <p>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 IE3 in accordance with IEC 60034-30-1. 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:</p> <ul style="list-style-type: none"> - pump start/stop input (potential-free contact) - remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA - 10 V voltage supply for setpoint potentiometer, I_{max} = 5 mA - one analog sensor input, 0-10 V, 0(4)-20 mA - 24 V voltage supply for sensor, I_{max} = 40 mA - one digital input - two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready" - RS-485 GENIbus connection - interface for Grundfos CIM fieldbus module. <p>Further product details</p> <p>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.</p> <p>Technical data</p> <p>Controls:</p> <table border="0"> <tr> <td>Frequency converter:</td> <td>Built-in</td> </tr> <tr> <td>Pressure sensor:</td> <td>N</td> </tr> </table> <p>Liquid:</p> <table border="0"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>-25 .. 120 °C</td> </tr> <tr> <td>Selected liquid temperature:</td> <td>20 °C</td> </tr> <tr> <td>Density:</td> <td>998.2 kg/m³</td> </tr> </table> <p>Technical:</p> <table border="0"> <tr> <td>Pump speed on which pump data are based:</td> <td>2940 rpm</td> </tr> <tr> <td>Rated flow:</td> <td>60.32 m³/h</td> </tr> <tr> <td>Rated head:</td> <td>52.21 m</td> </tr> <tr> <td>Actual impeller diameter:</td> <td>219 mm</td> </tr> <tr> <td>Nominal impeller diameter:</td> <td>200</td> </tr> <tr> <td>Shaft seal arrangement:</td> <td>Single</td> </tr> <tr> <td>Code for shaft seal:</td> <td>BQQE</td> </tr> <tr> <td>Curve tolerance:</td> <td>ISO9906:2012 3B</td> </tr> <tr> <td>Bearing design:</td> <td>Standard</td> </tr> </table> <p>Materials:</p> <table border="0"> <tr> <td>Pump housing:</td> <td>Cast iron EN-GJL-250</td> </tr> </table>	Frequency converter:	Built-in	Pressure sensor:	N	Pumped liquid:	Water	Liquid temperature range:	-25 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	2940 rpm	Rated flow:	60.32 m ³ /h	Rated head:	52.21 m	Actual impeller diameter:	219 mm	Nominal impeller diameter:	200	Shaft seal arrangement:	Single	Code for shaft seal:	BQQE	Curve tolerance:	ISO9906:2012 3B	Bearing design:	Standard	Pump housing:	Cast iron EN-GJL-250
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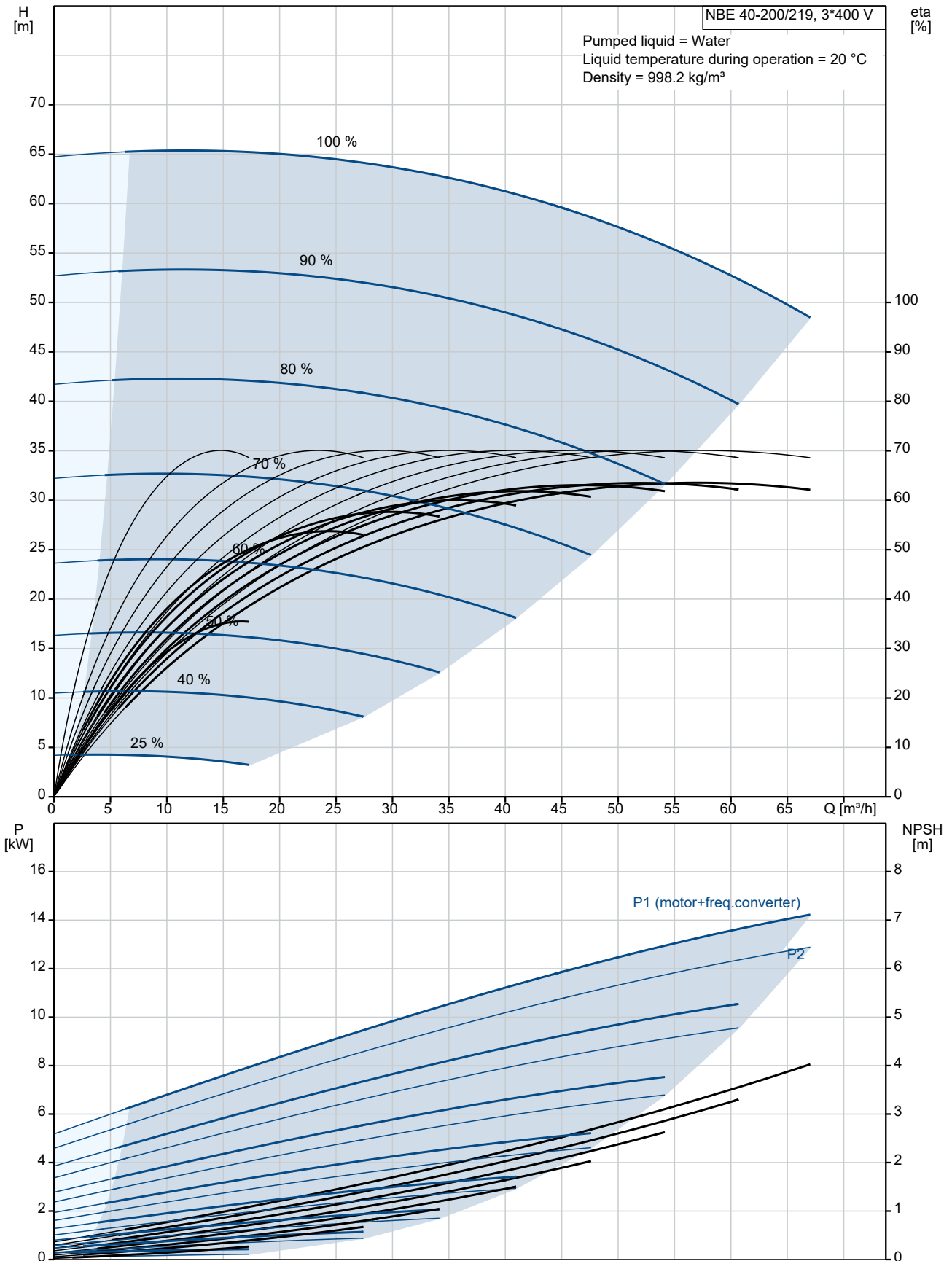
Qty.	Description
1	<p>ASTM class 35</p> <p>Wear ring: Brass</p> <p>Impeller: Cast iron</p> <p>EN-GJL-200</p> <p>ASTM class 30</p> <p>Internal pump house coating: CED</p> <p>Shaft: Stainless steel</p> <p>EN 1.4301</p> <p>AISI 304</p> <p>Installation:</p> <p>Range of ambient temperature: -20 .. 40 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Pipe connection standard: EN 1092-2</p> <p>Size of inlet connection: DN 65</p> <p>Size of outlet connection: DN 40</p> <p>Pressure rating for connection: PN 16</p> <p>Bearing lubrication: Grease</p> <p>Pump housing with feet: No</p> <p>Support block (Yes/No): Y</p> <p>Electrical data:</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 15 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-480 V</p> <p>Rated current: 30.0-26.0 A</p> <p>Cos phi - power factor: 0.91-0.86</p> <p>Rated speed: 480-3540 rpm</p> <p>Efficiency: IE3 91,9%</p> <p>Motor efficiency at full load: 91.9 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 85901265</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.65</p> <p>Net weight: 191 kg</p> <p>Gross weight: 212 kg</p> <p>Shipping volume: 0.509 m³</p> <p>Danish VVS No.: 386101207</p> <p>Country of origin: HU</p> <p>Custom tariff no.: 84137051</p>



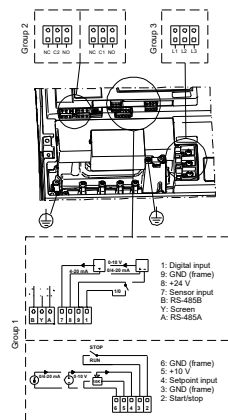
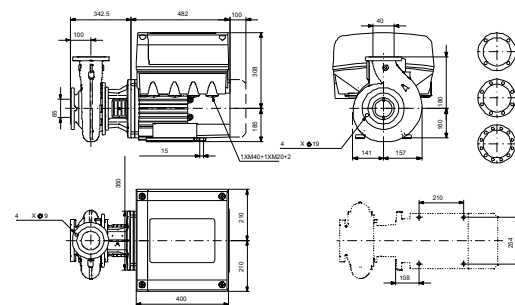
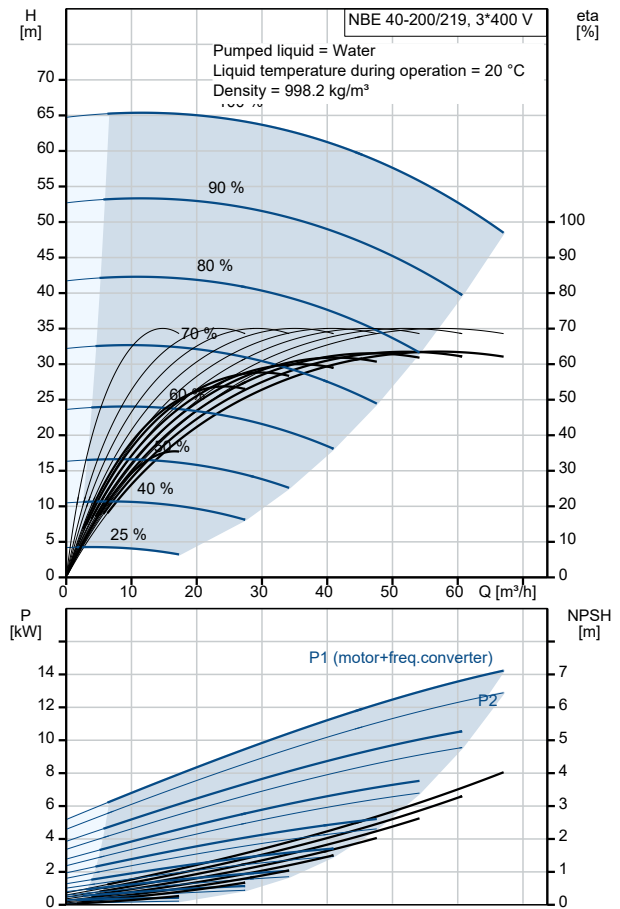
Company name: Pump Sales Direct
Created by:
Phone:

Date: 15/08/2022

98979881 NBE 40-200/219 AASF2AESBQQEOW1 50 Hz



Description	Value
General information:	
Product name:	NBE 40-200/219 AASF2AESBQQEOW1
Product No:	98979881
EAN number:	5712604620182
Technical:	
Pump speed on which pump data are based:	2940 rpm
Rated flow:	60.32 m ³ /h
Rated head:	52.21 m
Actual impeller diameter:	219 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:	
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
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 .. 40 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 65
Size of outlet connection:	DN 40
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:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
IE Efficiency class:	IE3
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	30.0-26.0 A
Cos phi - power factor:	0.91-0.86
Rated speed:	480-3540 rpm
Efficiency:	IE3 91,9%
Motor efficiency at full load:	91.9 %
Number of poles:	2





Company name: Pump Sales Direct

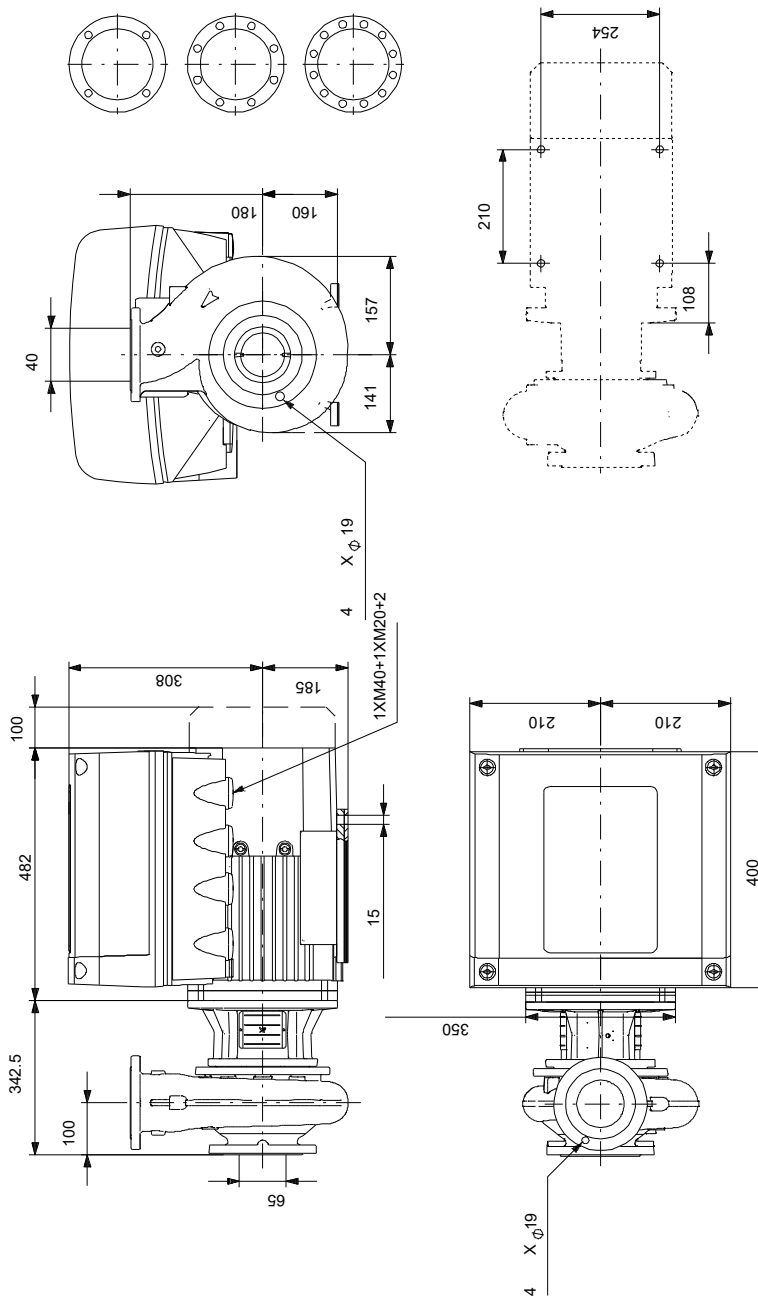
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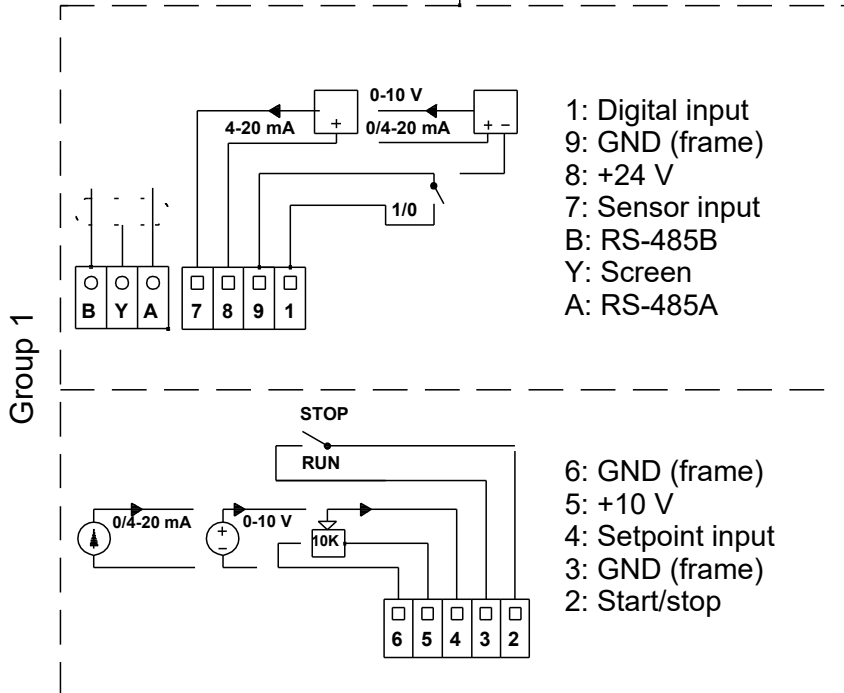
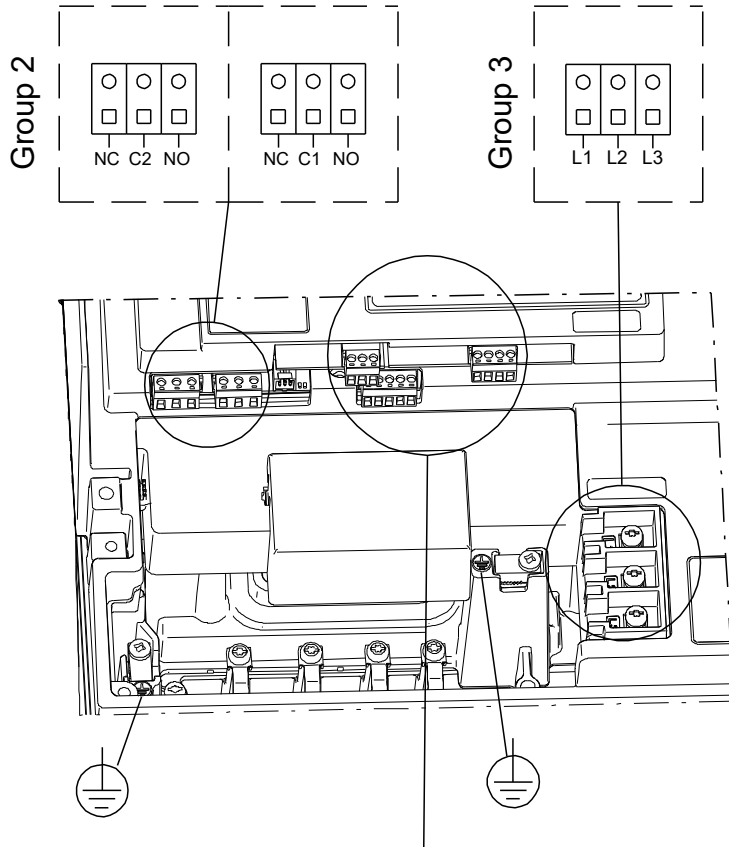
Description	Value
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	YES
Motor No:	85901265
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.65
Net weight:	191 kg
Gross weight:	212 kg
Shipping volume:	0.509 m ³
Danish VVS No.:	386101207
Country of origin:	HU
Custom tariff no.:	84137051

98979881 NBE 40-200/219 AASF2AESBQQEOW1 50 Hz



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

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Note! All units are in [mm] unless others are stated.



Company name: Pump Sales Direct
 Created by:
 Phone:

Date: 15/08/2022

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		NBE 40-200/219	1	98979881	Price on request