

Date: 03/11/2020

Qty. | Description

1 NBE 65-125/130 AF2ABQQE



Note! Product picture may differ from actual product

Product No.: 99104682

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, permanent-magnet synchronous 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.

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

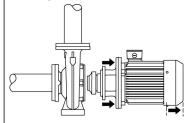
An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control.

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 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 yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

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 or cast iron.



Date: 03/11/2020

Qty. | Description

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.

Primary seal:

- 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

Technical data

Controls:

Frequency converter: Built-in

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: 1450 rpm

Rated flow: 56 m³/h
Rated head: 3.9 m
Actual impeller diameter: 130 mm
Nominal impeller diameter: 125
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35



Date: 03/11/2020

Qty. | Description

Wear ring: Brass Impeller: Cast iron

EN-GJL-200 ASTM class 30

Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

Maximum ambient temperature: 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** Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: Ν

Electrical data:

IE Efficiency class: IE5
Rated power - P2: 0.75 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-500 V
Rated current: 1.70-1.50 A
Cos phi - power factor: 0.83-0.71
Rated speed: 180-2000 rpm

Efficiency: 86.7%

Motor efficiency at full load: 86.7 %

Number of poles: 4

Enclosure class (IEC 34-5): IP55

Insulation class (IEC 85): F

Motor No: 99305833

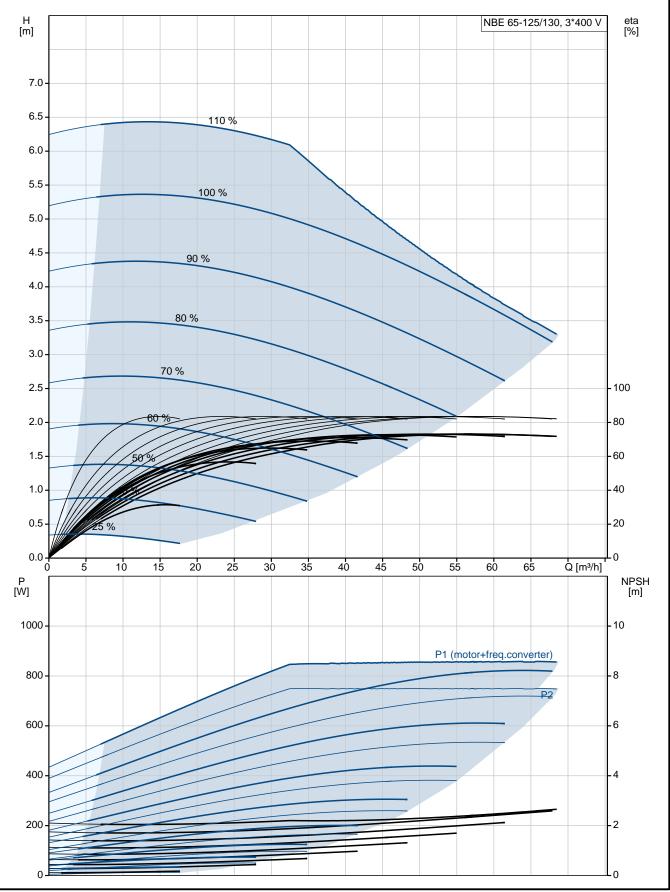
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 46 kg
Gross weight: 56 kg
Shipping volume: 0.134 m³
Country of origin: HU
Custom tariff no.: 84137051



Date: 03/11/2020

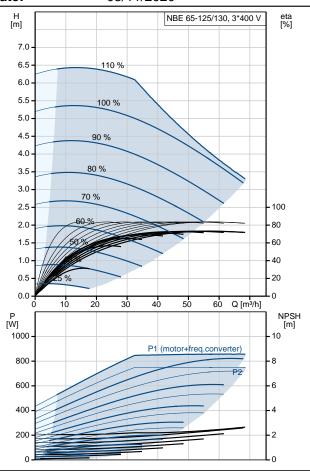
99104682 NBE 65-125/130 AF2ABQQE 50 Hz

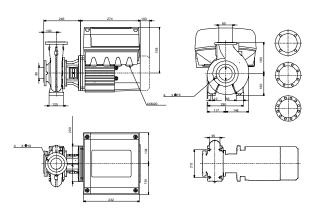


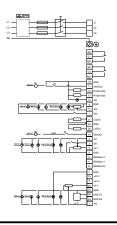


Date: 03/11/2020

Description Value General information: NBE 65-125/130 AF2ABQQE Product name: AF2ABQQE Product No: 99104682 EAN number: 5712606839728 Price: GBP 2489 GBP 2489 Technical: 1450 rpm Pump speed on which pump data are based: 1450 rpm Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: War manual design: Pump housing: Cast iron Pump housing: A STM class 35 Wear ring: Brass Impeller: Cast iron Impeller: A STM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: A STM class 30		
General information: NBE 65-125/130 AF2ABQQE Product name: AF2ABQQE Product No: 99104682 EAN number: 5712606839728 Price: GBP 2489 Technical:	Description	Value
Product No: 99104682 EAN number: 5712606839728 Price: GBP 2489 Technical: Pump speed on which pump data are based: 3.9 m Actual impeller diameter: 130 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump housing: Cast iron Pump housing: Cast iron Pump housing: Price Standard Materials: Pump housing: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Shaft: Stainless steel Shaft: ASI No ASI		
EAN number: 5712606839728 Price: GBP 2489 Technical: Pump speed on which pump data are based: 56 m³/h Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 130 mm Nominal impeller diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: BN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 86 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: N Connect code: F2 Liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: EE Installed current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated outlange: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.86-7% Motor efficiency at full load: 86.7 %	Product name:	
Price: GBP 2489 Technical: Technical: Pump speed on which pump data are based: 1450 rpm Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 35 Wear ring: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: International code: Maximum ambient temper	Product No:	99104682
Technical: Pump speed on which pump data are based: 1450 rpm Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Variant Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: ASTM class 30 Shaft: ASTM class 30 Shaft: ASTM class 30 Shaft: ASTM class 30 Shaft: ASTM class 40	EAN number:	5712606839728
Pump speed on which pump data are based: Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 130 mm Nominal impeller diameter: 225 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: Cast iron Pimpeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-1,4301 Shaft: Stainless steel Shaft: Stainless steel Shaft: BN 1,4301 Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Price:	GBP 2489
based: 1450 lpln Rated flow: 56 m³/h Rated head: 3.9 m Actual impeller diameter: 125 Shaft seal arrangement: Single Shaft seal arrangement: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Wand materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Wear ring: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Shaft: Stainless steel Shaft: ASTM class 30 Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 50 °C Maximum ambient te	Technical:	
Rated head: 3.9 m Actual impeller diameter: 130 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Wear rimg Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 35 Wear ring: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: Stainless steel Shaft: A IST A301 Shaft: A IST A301 Shaft: A IST A301 Shaft: A IST A301 Material code: A Code for rubber: E		1450 rpm
Actual impeller diameter: 130 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Wearing Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: AsTM class 30 Shaft: Stain	Rated flow:	56 m³/h
Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Verm pousing: Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Installation: Maximum ambient temperature: 50 °C Maximum ambient temperature: 50 °C Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar	Rated head:	3.9 m
Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Standard Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Pipe connection standard: EN 1092-2 Pres		130 mm
Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: *** Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-250 Impeller: ASTM class 35 Wear ring: ASTM class 30 Shaft: Stainless steel Shaft: ASTM class 30 Shaft: AISI 304 Material code: A Code for rubber: E Installation: E Maximum ambient temperature: 50 °C Maximum ambient temperature: 50 °C Maximum ambient temperature: 50 °C	Nominal impeller diameter:	125
Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: 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: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Waximum ambient temperature: Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 65 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: N Connect code: F2	Shaft seal arrangement:	Single
Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: 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: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: E Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: N Connect code: F2	Shaft diameter:	24 mm
Pump version: A Bearing design: Standard Materials: Pump housing: EN-GJL-250 Pump housing: Brass Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 35 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.85.7% Motor efficiency at full load: 86.7 %	Code for shaft seal:	BQQE
Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		ISO9906:2012 3B2
Materials: 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: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: N Connect code: F2 Liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C <td><u> </u></td> <td></td>	<u> </u>	
Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 85 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		Standard
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: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Pump housing: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		Cast iron
Wear ring:BrassImpeller:Cast ironImpeller:EN-GJL-200Impeller:ASTM class 30Shaft:Stainless steelShaft:EN 1.4301Shaft:AISI 304Material code:ACode for rubber:EInstallation:EMaximum ambient temperature:50 °CMaximum operating pressure:16 barPipe connection standard:EN 1092-2Size of inlet connection:DN 80Size of outlet connection:DN 65Pipe connection standard:EN 1092-2Pressure rating for connection:PN 16Pump housing with feet:YesSupport block:NConnect code:F2Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IE5IE Efficiency class:IE5Rated power - P2:0.75 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:1.70-1.50 ACos phi - power factor:0.83-0.71Rated speed:180-2000 rpmEfficiency:86.7%Motor efficiency at full load:86.7%		EN-GJL-250
Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Material code: A Code for rubber: E Installation: E Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: N Connect code: F2 Liquid: Water Liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE5 Rated power - P2: 0.75 kW	Pump housing:	ASTM class 35
Impeller:	Wear ring:	Brass
Impeller: Shaft: Stainless steel Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: Rated power - P2: NATION OF SHAW Mains frequency: Shaft of Water Liquid temperature: 1.70-1.50 A Cos phi - power factor: Rated speed: Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Impeller:	Cast iron
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 85 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Impeller:	EN-GJL-200
Shaft: EN 1.4301 Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Impeller:	ASTM class 30
Shaft: AISI 304 Material code: A Code for rubber: E Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Shaft:	Stainless steel
Material code: Code for rubber: Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: Pipe connection standard: Size of outlet connection: DN 80 Size of outlet connection: PN 16 Pipe connection standard: Pipe connection standard: Pipe connection standard: PN 16 Pump housing with feet: Yes Support block: Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pessure rating for connection: PN 16 Pumped liquid: Liquid temperature range: Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: O.75 kW Mains frequency: So Hz Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: Rated speed: Hill load: 86.7% Motor efficiency at full load: 86.7%	Shaft:	EN 1.4301
Code for rubber: Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 80 Size of outlet connection: Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: Connect code: F2 Liquid: Pumped liquid: Uater Liquid temperature range: Selected liquid temperature: Density: Pest 120 °C Selected liquid temperature: Density: Pest 20 °C Density: Pest 30 °C Selected liquid temperature: Density: Selectrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: Rated speed: H80-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7%	Shaft:	AISI 304
Installation: Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Material code:	A
Maximum ambient temperature: 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 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Code for rubber:	E
Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 80 Size of outlet connection: DN 65 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes Support block: 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: Rated power - P2: Nated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: Efficiency at full load: 86.7 % Motor efficiency at full load:	Installation:	
Pipe connection standard: EN 1092-2 Size of inlet connection: DN 80 Size of outlet connection: DN 65 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		50 °C
Size of inlet connection: Size of outlet connection: DN 65 Pipe connection standard: Pressure rating for connection: Pump housing with feet: Support block: Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pessure rating for connection: PN 16 Pows N Connect code: F2 Liquid: Pumped liquid: Usater Liquid temperature range: -25 120 °C Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	. •	16 bar
Size of outlet connection: Pipe connection standard: Pressure rating for connection: Pump housing with feet: Support block: Connect code: F2 Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: Density: Pessor Selectrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: DN 65 EN 1092-2 EN 1092-2 PN 16 Water Vater Vater Vater P2 Vater Vater 120 °C 20	Pipe connection standard:	EN 1092-2
Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Pump housing with feet: Yes 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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Pressure rating for connection: Pump housing with feet: Support block: N Connect code: F2 Liquid: Pumped liquid: Uquid temperature range: Liquid temperature: Density: Density	Size of outlet connection:	DN 65
Pump housing with feet: Support block: Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pest 120 °C Selected liquid temperature: Density: Pest 120 °C Selected liquid temperature: Density: Selectrical data: IE Efficiency class: Rated power - P2: Nains frequency: Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: Efficiency: 86.7% Motor efficiency at full load: Rated voltage: 86.7 %	·	EN 1092-2
Support block: Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pumped liquid temperature: 20 °C Selected liquid temperature: 1E Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: Rated speed: Efficiency at full load: 86.7 %		PN 16
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: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		Yes
Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: 1.70-1.50 A Cos phi - power factor: Rated speed: Efficiency at full load: 86.7 %		N
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		F2
Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	•	
Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		Water
Density: 998.2 kg/m³ Electrical data: IE Efficiency class: IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Liquid temperature range:	
Electrical data: IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Selected liquid temperature:	
IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		998.2 kg/m³
Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Rated voltage: 3 x 380-500 V Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Rated current: 1.70-1.50 A Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Cos phi - power factor: 0.83-0.71 Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		
Rated speed: 180-2000 rpm Efficiency: 86.7% Motor efficiency at full load: 86.7 %		1.70-1.50 A
Efficiency: 86.7% Motor efficiency at full load: 86.7 %	Cos phi - power factor:	
Motor efficiency at full load: 86.7 %	Rated speed:	180-2000 rpm
	Efficiency:	86.7%
Number of poles: 4	Motor efficiency at full load:	86.7 %
	Number of poles:	4









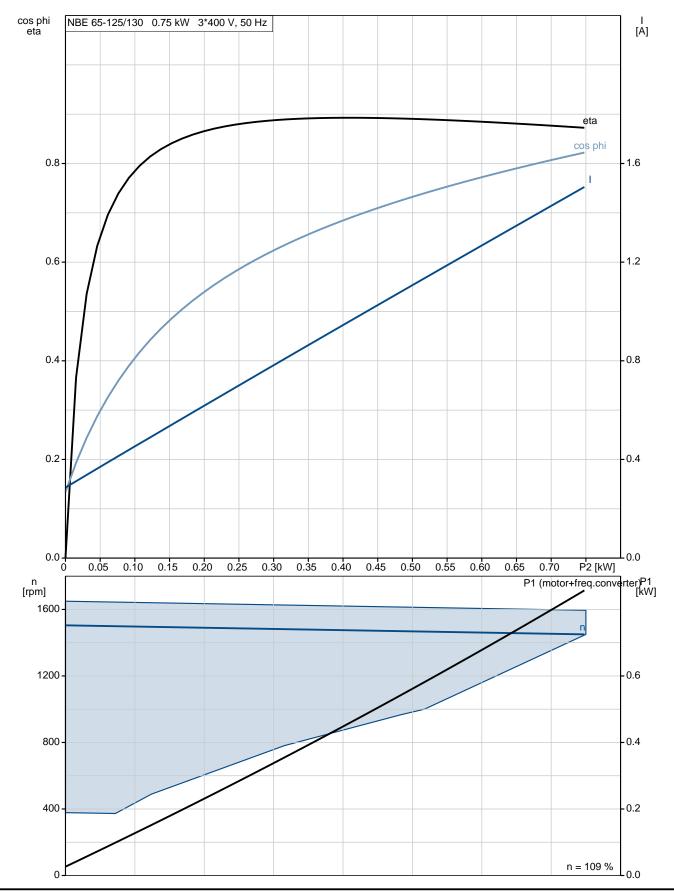
Date: 03/11/2020

Description	Value
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	ELEC
Motor No:	99305833
Mount. design. acc. IEC 34-7:	IM V1/B5
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	46 kg
Gross weight:	56 kg
Shipping volume:	0.134 m³
Country of origin:	HU
Custom tariff no.:	84137051



Date: 03/11/2020

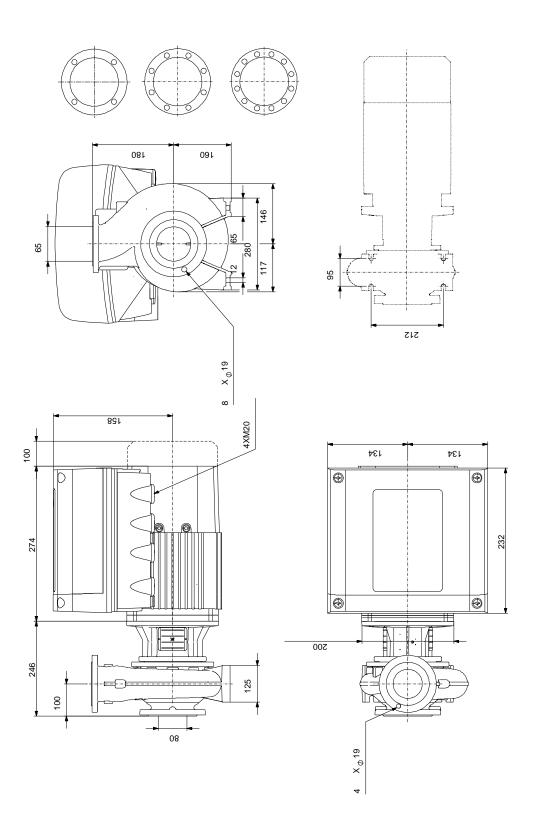
99104682 NBE 65-125/130 AF2ABQQE 50 Hz





Date: 03/11/2020

99104682 NBE 65-125/130 AF2ABQQE 50 Hz

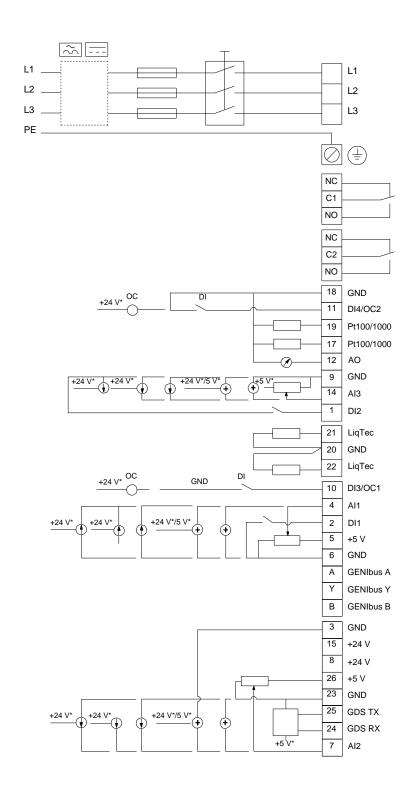


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 03/11/2020

99104682 NBE 65-125/130 AF2ABQQE 50 Hz



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