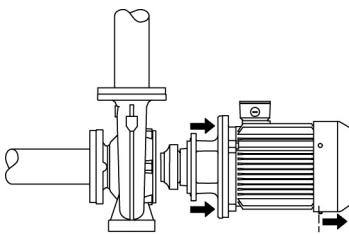


Qty.	Description
1	<p>NBE 150-250/230 BASF1AESBQQEPW3</p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: 99105340</p> <p>Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).</p> <p>Flanges are PN 10 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.</p> <p>The unbalanced rubber bellows seal is according to DIN EN 12756.</p> <p>The pump is close-coupled to a fan-cooled asynchronous motor.</p> <p>The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.</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>Pump</p> <p>Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool.</p> <p>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.</p> <p>Seal faces:</p> <ul style="list-style-type: none"> • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC) <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)</p> <p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p>The pump housing has feet.</p> <p>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.</p> <p>The motor efficiency is classified as IE4 in accordance with IEC 60034-30-1.</p> <p>The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p>



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Qty.	Description
1	<p>Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.</p> <p>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.</p> <p>The motor is equipped with bearing current protection. This protects the bearings from failure due to bearing currents, which can be caused e.g. by the high-frequency switching of a variable frequency drive.</p>

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:

VFD product number: 99616822
Frequency converter: Built-in
Type of frequency converter: CUE 3X380-500V IP55 RUG 22KW
Appr. for VFD: CE, CULUS, C-TICK
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: 1470 rpm
Rated flow: 339.7 m³/h
Rated head: 12.44 m
Actual impeller diameter: 230 mm
Nominal impeller diameter: 250
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
Internal pump house coating: CED
Shaft: Stainless steel
EN 1.4301
AISI 304

Installation:

Range of ambient temperature: -10 .. 50 °C
Maximum operating pressure: 10 bar
Pipe connection standard: EN 1092-2
Size of inlet connection: DN 200



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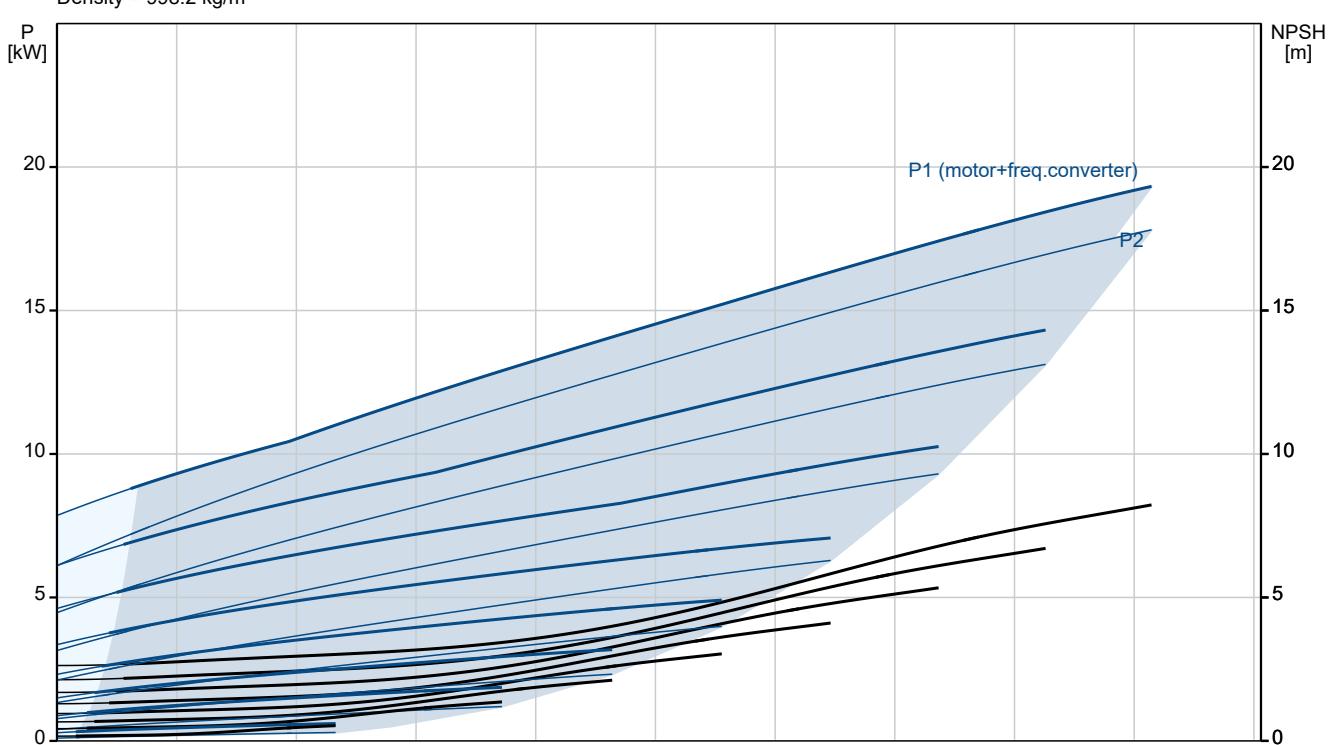
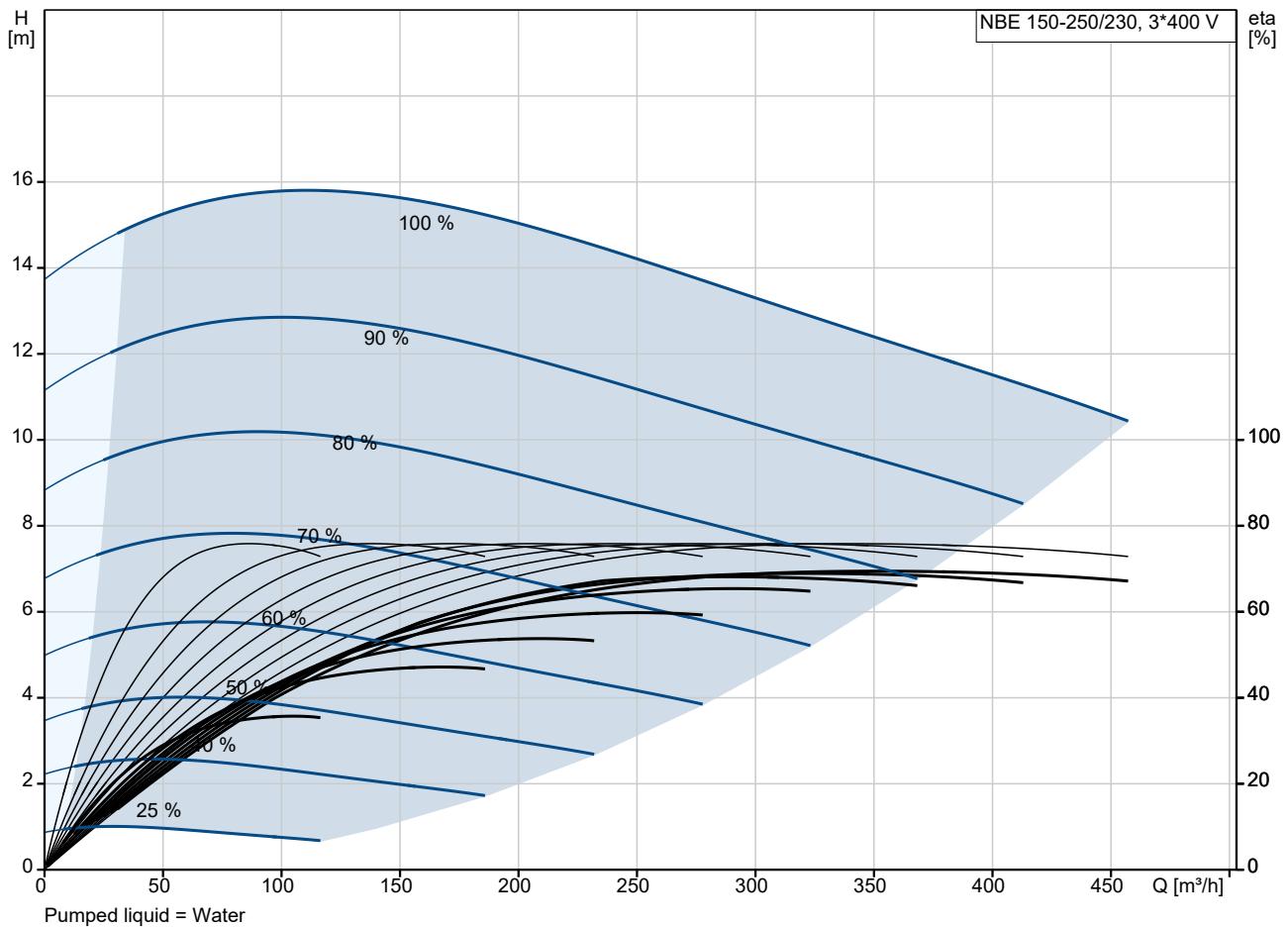
Qty.	Description
1	Size of outlet connection: DN 150 Pressure rating for connection: PN 10 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y
	Electrical data: IE Efficiency class: IE4 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 36,5-34,0/21,0-19,4 A Starting current: 820-820 % Cos phi - power factor: 0.81 Rated speed: 1470 rpm Efficiency: IE4 94,2% Motor efficiency at full load: 94.2-94.2 % Motor efficiency at 3/4 load: 94.7-94.7 % Motor efficiency at 1/2 load: 94.6-94.6 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 92582379 Bearing insulation type N-end: HYBRID BEARING
	Others: Minimum efficiency index, MEI \geq : 0.68 Net weight: 415 kg Gross weight: 496 kg Shipping volume: 1.6 m ³



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99105340 NBE 150-250/230 BASF1AESBQQEPW3 50 Hz





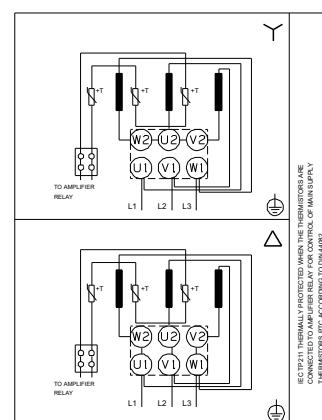
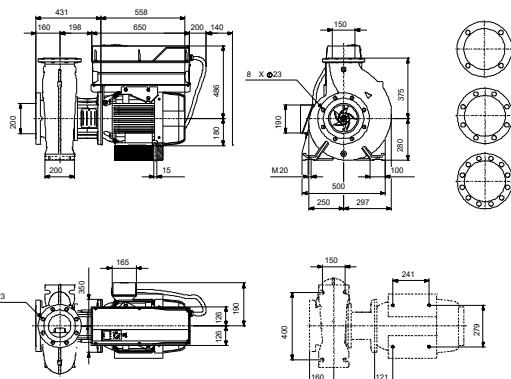
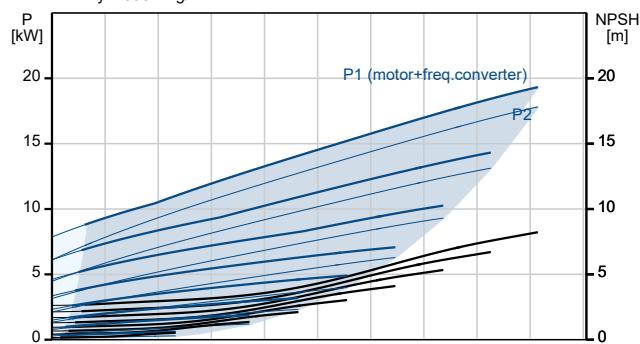
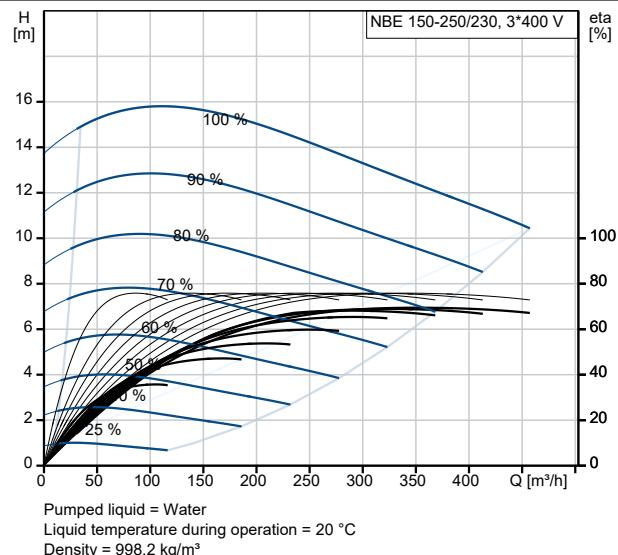
Company name:

Created by:

Phone:

Date: 28/12/2022

Description	Value
General information:	
Product name:	NBE 150-250/230 BASF1AESBQQEPW3
Product No:	99105340
EAN number:	5712606853311
Technical:	
Pump speed on which pump data are based:	1470 rpm
Rated flow:	339.7 m ³ /h
Rated head:	12.44 m
Actual impeller diameter:	230 mm
Nominal impeller diameter:	250
Shaft seal arrangement:	Single
Shaft diameter:	42 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:	-10 .. 50 °C
Maximum operating pressure:	10 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 200
Size of outlet connection:	DN 150
Pressure rating for connection:	PN 10
Bearing lubrication:	Grease
Pump housing with feet:	Yes
Support block (Yes/No):	Y
Connect code:	F1
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:	IE4
Rated power - P2:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	36,5-34,0/21,0-19,4 A
Starting current:	820-820 %
Cos phi - power factor:	0.81
Rated speed:	1470 rpm
Efficiency:	IE4 94,2%
Motor efficiency at full load:	94.2-94.2 %



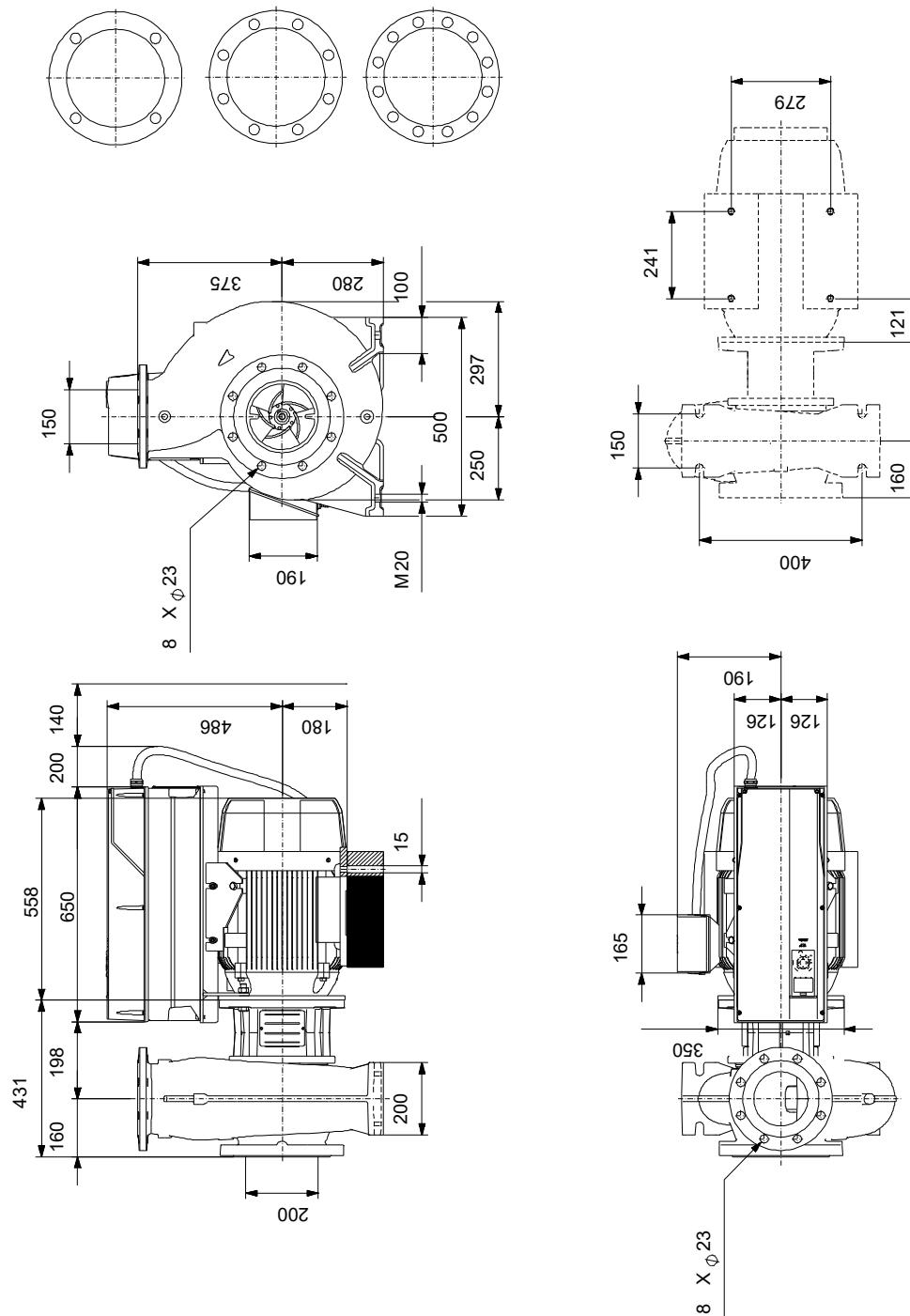


Company name:
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Phone:

Date: 28/12/2022

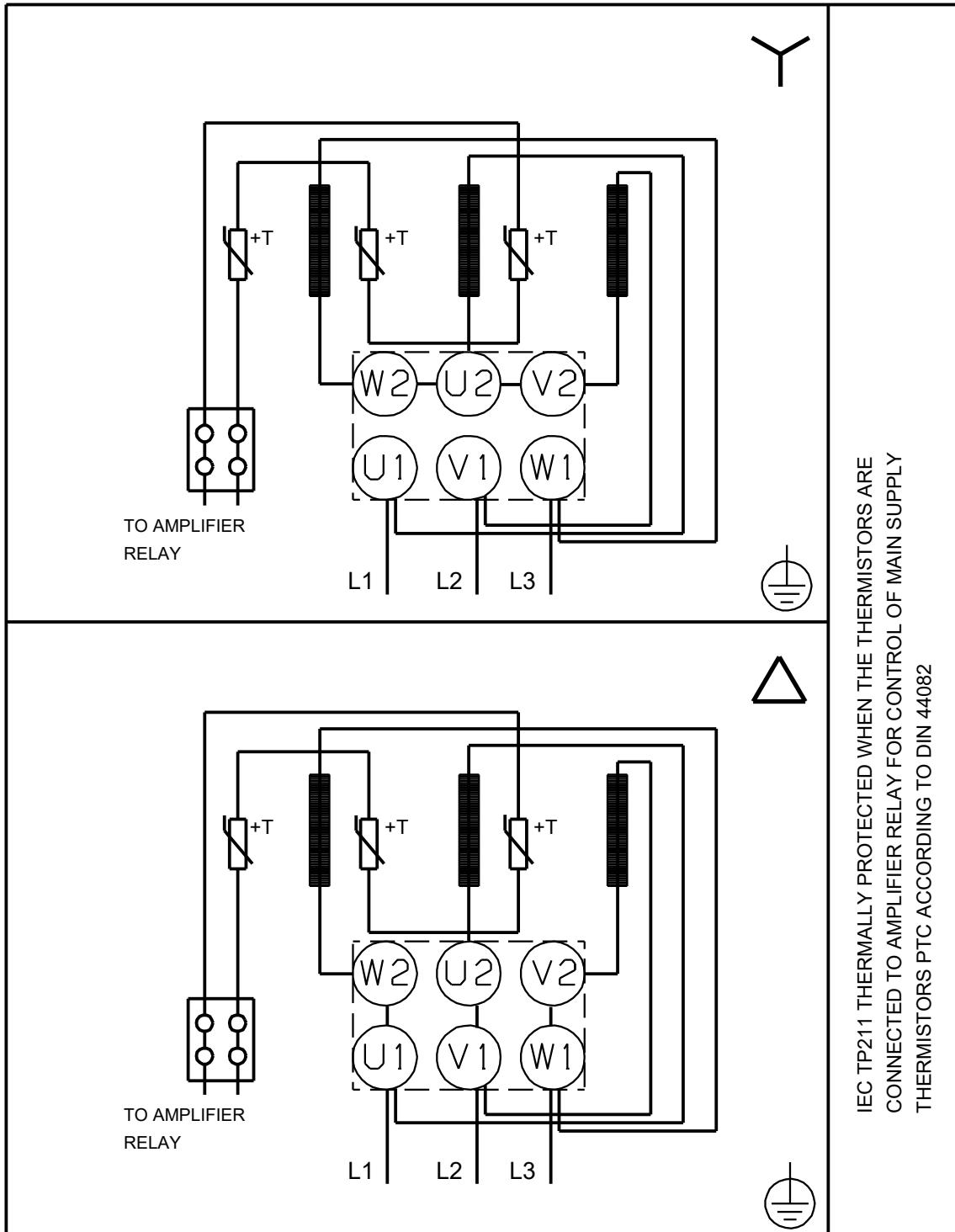
Description	Value
Motor efficiency at 3/4 load:	94.7-94.7 %
Motor efficiency at 1/2 load:	94.6-94.6 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	92582379
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	HYBRID BEARING
Controls:	
VFD product number:	99616822
Frequency converter:	Built-in
Type of frequency converter:	CUE 3X380-500V IP55 RUG 22KW
Appr. for VFD:	CE, CULUS, C-TICK
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.68
Net weight:	415 kg
Gross weight:	496 kg
Shipping volume:	1.6 m ³

99105340 NBE 150-250/230 BASF1AESBQQEPW3 50 Hz



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

99105340 NBE 150-250/230 BASF1AESBQQEPW3 50 Hz



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



Company name:
Created by:
Phone:

Date: 28/12/2022

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		NBE 150-250/230	1	99105340	Price on request