Company name:
Created by:
Phone:

Date: 23/10/2024

Qty.	Description
1	**NKE 65-200/217 AIA1F2AVSBQQVRW1**

Note! Product picture may differ from actual product

Product No.: On request

Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-out design enabling removal of the motor, coupling, bearing bracket and impeller without disturbing the pump housing or pipework.

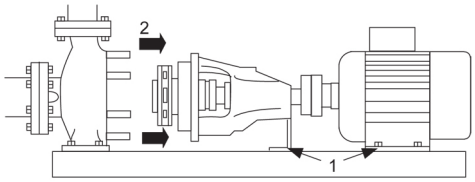
The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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.

Pump and motor are mounted on a common steel base frame in accordance with ISO 3661. The back pull-out design makes it possible to service the pump when the pump housing is still connected to the inlet and discharge pipes.

1) Remove the bolts in the bearing bracket support foot and motor foot.
2) Remove the bearing bracket and the motor from the pump housing.



Pump

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: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.

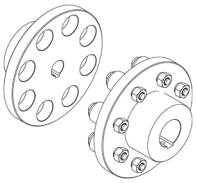
The shaft is made of stainless steel and has a diameter of 24 mm where the coupling is mounted.

The pump uses a standard coupling between the pump and motor shaft.

GRUNDFOS

Company name:
Created by:
Phone:

Date: 23/10/2024

Qty.	Description
1	

The language on the pump nameplate is English.

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 IE4 in accordance with IEC 60034-30-1.

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.

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.

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.

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:	99616823
Frequency converter:	Built-in
Type of frequency converter:	CUE 3X380-500V IP55 RUG 30KW
Appr. for VFD:	CE, CULUS, C-TICK
Pressure sensor:	N
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 90 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Technical:	
Pump speed on which pump data are based:	2955 rpm
Rated flow:	117.9 m³/h
Pump with motor (Yes/No):	Y
Rated head:	60.64 m
Actual impeller diameter:	217 mm
Nominal impeller diameter:	200
Code for shaft seal:	BQQV
Mechanical seal type:	Single
Curve tolerance:	ISO9906:2012 3B
Bearing design:	Standard
Materials:	
Pump housing:	Cast iron EN-GJL-250

GRUNDFOS

Company name:
Created by:
Phone:

Date: 23/10/2024

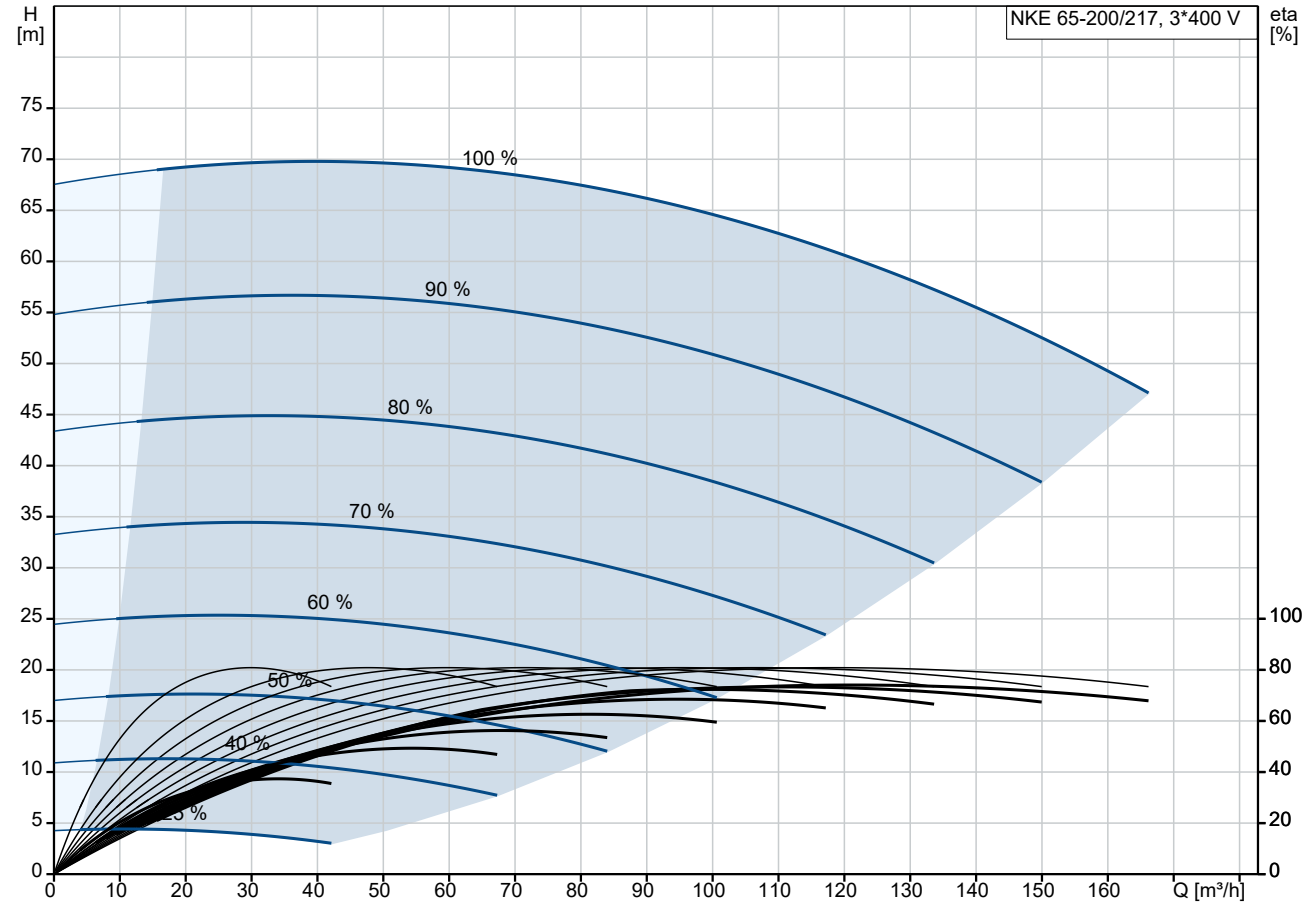
Qty.	Description	
1		ASTM class 35
	Wear ring:	Brass
	Impeller:	Cast iron
		EN-GJL-200
		ASTM class 30
	Internal pump house coating:	CED
	Shaft:	Stainless steel
		EN 1.4301
		AISI 304
	Installation:	
	Range of ambient temperature:	-10 .. 50 °C
	Maximum operating pressure:	16 bar
	Pipe connection standard:	EN 1092-2
	Type of inlet connection:	DIN
	Type of outlet connection:	DIN
	Size of inlet connection:	DN 80
	Size of outlet connection:	DN 65
	Pressure rating for connection:	PN 16
	Coupling type:	Flexible w/o spacer
	Base frame design:	EN/ISO
	Code for base frame:	8 ST
	Grouting (Yes/No):	N
	Electrical data:	
	Motor type:	SIEMENS
	Rated power - P2:	30 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 380-420D/660-725Y V
	Rated current:	54/31.5 A
	Starting current:	790 %
	Cos phi - power factor:	0.85
	Rated speed:	2955 rpm
	IE efficiency:	IE4 94,5%
	IE Efficiency class:	IE4
	Motor efficiency at full load:	94.5 %
	Motor efficiency at 3/4 load:	94.8 %
	Motor efficiency at 1/2 load:	94.4 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	92779349
	Bearing insulation type N-end:	COATED RING
	Others:	
	Minimum efficiency index, MEI ≥:	0.70
	Net weight:	478 kg
	Gross weight:	533 kg
	Shipping volume:	1.68 m³
	Country of origin:	HU
	Custom tariff no.:	84137059
	Language on pump nameplate:	GB

GRUNDFOS

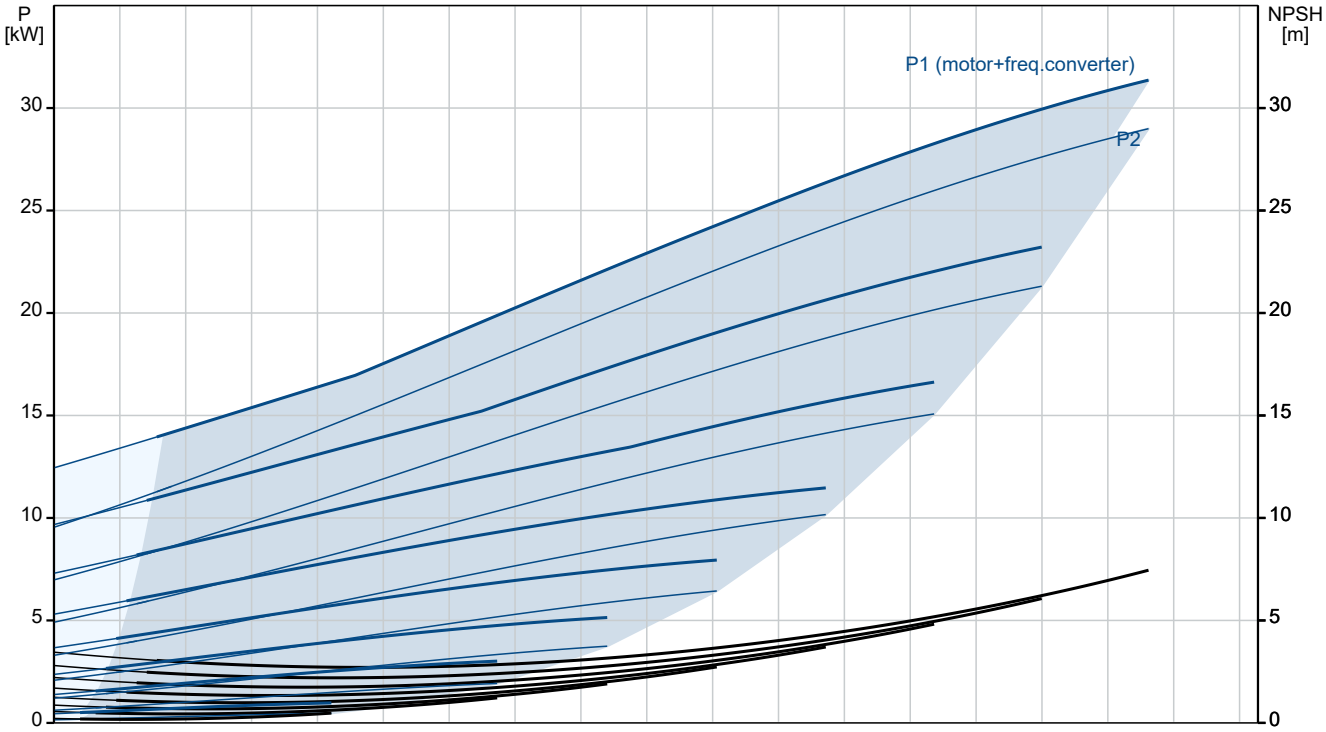
Company name:
Created by:
Phone:

Date: 23/10/2024

On request NKE 65-200/217 AIA1F2AVSBQQVRW1 50 Hz



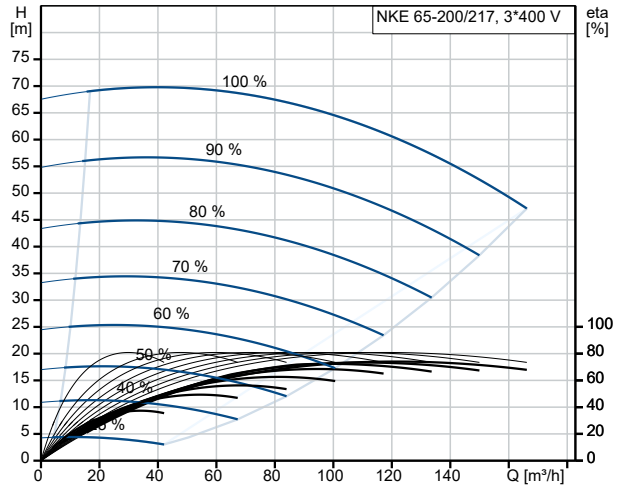
Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



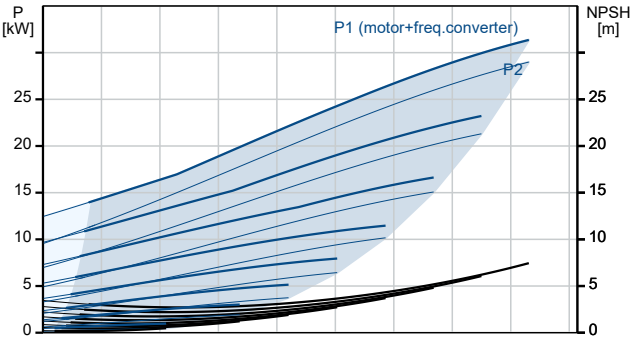
Company name:
Created by:
Phone:

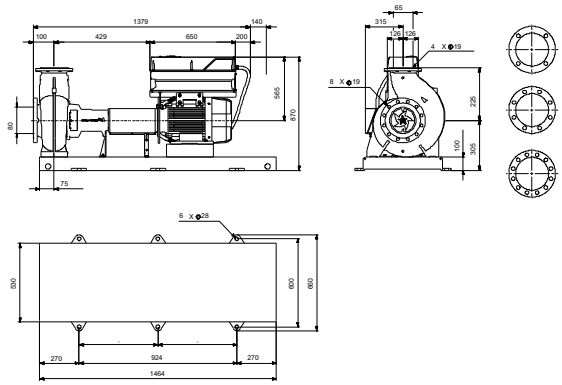
Date: 23/10/2024

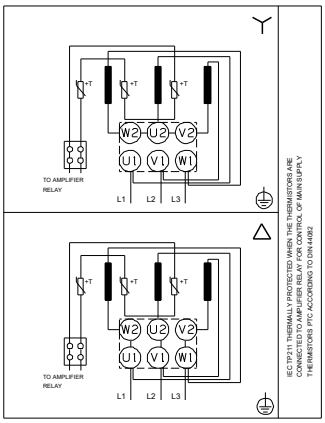
Description	Value
General information:	
Product name:	NKE 65-200/217 AIA1F2AVSBQQVRW1
Product No:	On request
EAN number:	On request
Technical:	
Pump speed on which pump data are based:	2955 rpm
Rated flow:	117.9 m³/h
Pump with motor (Yes/No):	Y
Rated head:	60.64 m
Actual impeller diameter:	217 mm
Nominal impeller diameter:	200
Shaft diameter:	24 mm
Code for shaft seal:	BQQV
Mechanical seal type:	Single
Curve tolerance:	ISO9906:2012 3B
Pump version:	A1
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:	V
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Installation:	
Range of ambient temperature:	-10 .. 50 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 80
Size of outlet connection:	DN 65
Pressure rating for connection:	PN 16
Coupling type:	Flexible w/o spacer
Base frame design:	EN/ISO
Code for base frame:	8 ST
Grouting (Yes/No):	N
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 90 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	SIEMENS
Rated power - P2:	30 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	54/31.5 A



Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³







GRUNDFOS

Company name:
Created by:
Phone:

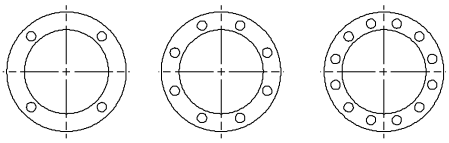
Date: 23/10/2024

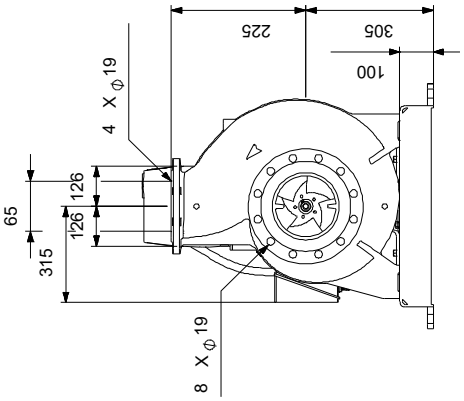
Description	Value
Starting current:	790 %
Cos phi - power factor:	0.85
Rated speed:	2955 rpm
IE efficiency:	IE4 94,5%
IE Efficiency class:	IE4
Motor efficiency at full load:	94.5 %
Motor efficiency at 3/4 load:	94.8 %
Motor efficiency at 1/2 load:	94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	92779349
Bearing insulation type N-end:	COATED RING
Controls:	
VFD product number:	99616823
Frequency converter:	Built-in
Type of frequency converter:	CUE 3X380-500V IP55 RUG 30KW
Appr. for VFD:	CE, CULUS, C-TICK
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	478 kg
Gross weight:	533 kg
Shipping volume:	1.68 m^3
Country of origin:	HU
Custom tariff no.:	84137059
Language on pump nameplate:	GB

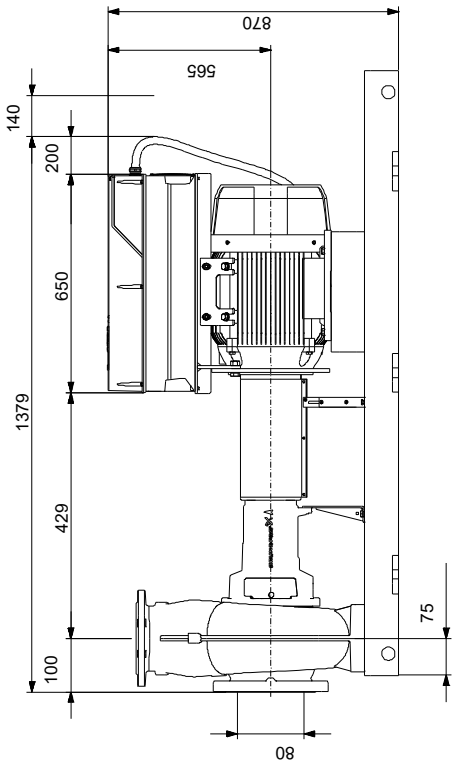
Company name:
Created by:
Phone:

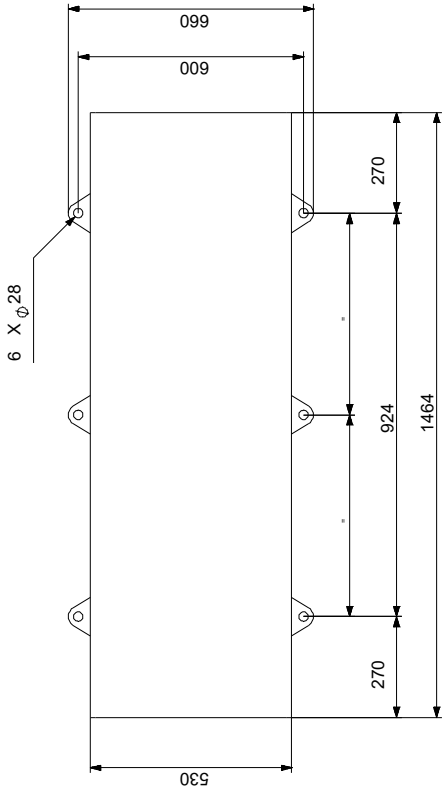
Date: 23/10/2024

On request NKE 65-200/217 AIA1F2AVSBQQVRW1 50 Hz







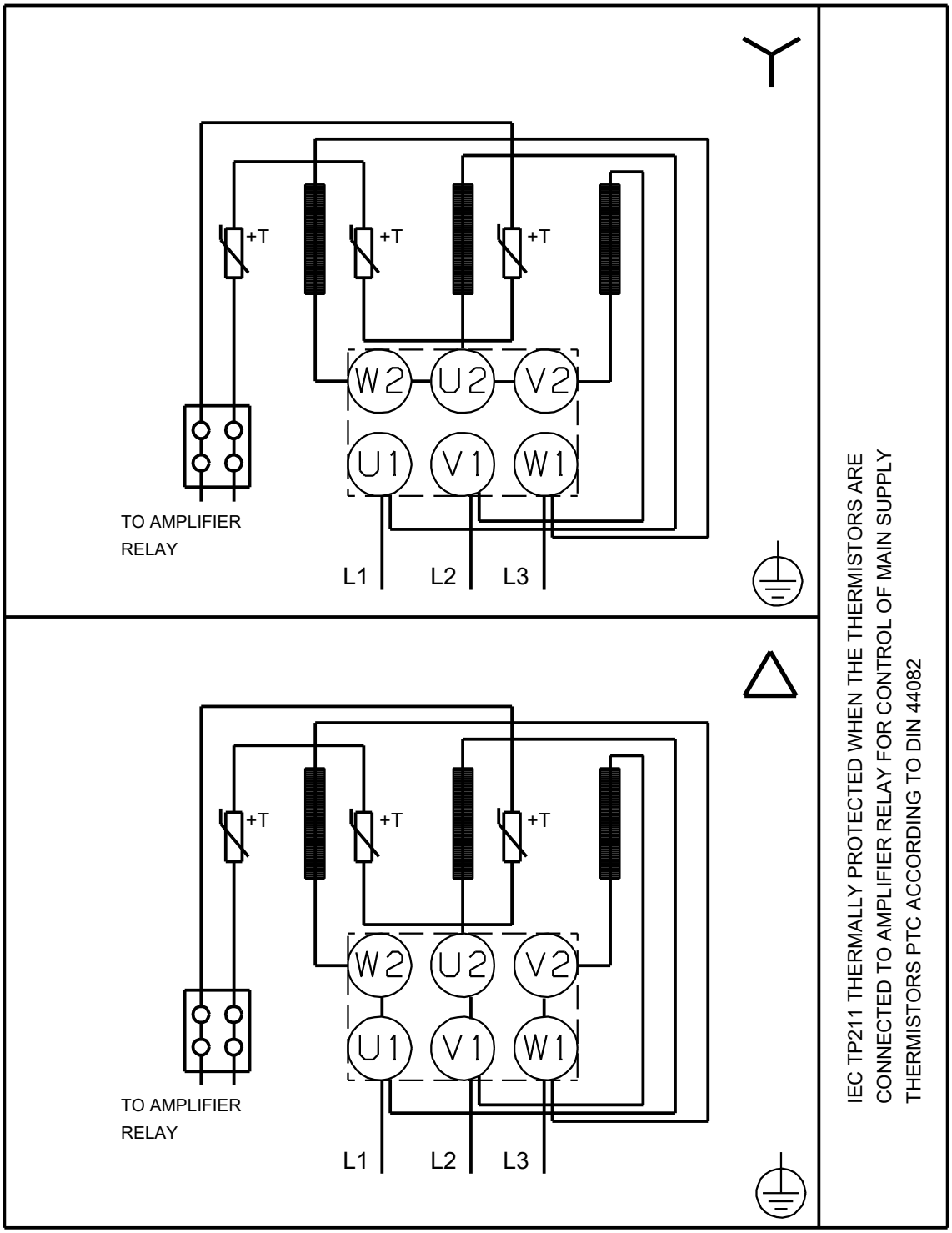


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 23/10/2024

On request NKE 65-200/217 AIA1F2AVSBQQVRW1 50 Hz



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

GRUNDFOS

Company name:
Created by:
Phone:

Date: 23/10/2024

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		NKE 65-200/217 AIA1F2AVSBQQVRW1	1	On request	