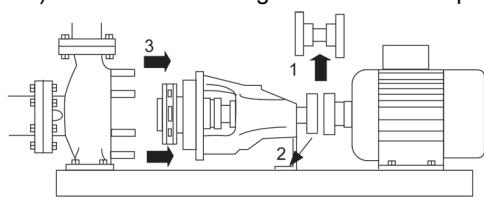
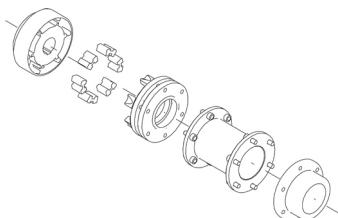


Qty.	Description
1	<p><b>NK 65-250/270 AA2F2AESBQQEVW1</b></p>  <p><b>Note!</b> Product picture may differ from actual product</p> <p>Product No.: <a href="#">98972832</a></p> <p>Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according 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 coupling, bearing bracket and impeller without disturbing the motor, pump housing or pipework.</p> <p>The unbalanced rubber bellows seal is according to DIN EN 12756.</p> <p>The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.</p> <p>Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.</p> <p>The back pull-out design together with a spacer coupling makes it possible to service the pump without dismantling the pump housing and motor from the base frame.</p> <p>This saves realignment of pump and motor after service.</p> <ol style="list-style-type: none"> <li>1) Remove coupling.</li> <li>2) Remove the bolts in the bearing bracket support foot.</li> <li>3) Remove the bearing bracket from the pump housing.</li> </ol>  <h3>Pump</h3> <p>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.</p> <p>Wear rings used in pump housing and for impeller are made of bronze/brass.</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>{IMG Filename: GRALON_NB-NK-G_SHAFTSEAL_Bxxx.gif }</p> <p>Seal faces:</p> <ul style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> <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 shaft is made of stainless steel and has a diameter of 32 mm where the coupling is mounted.</p> <p>The pump uses a spacer coupling between the pump and motor shaft.</p>



The base frame is prepared for grouting. Grouting improves the contact of the base frame with the foundation and stiffens the base frame construction. This changes the vibration level.

Grouting is mandatory for all base frame types for all 2-pole pumps equal to and above 55 kW to fulfill the max vibration level requirements stated in standards. For other pump motor combinations grouting of the base frame is optional.

## 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 IE3 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.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

## 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:

Frequency converter:                           NONE  
Pressure sensor:                                   N

### Liquid:

Pumped liquid:                                   Water  
Liquid temperature range:                   -25 .. 120 °C  
Selected liquid temperature:               20 °C  
Density:   998.2 kg/m<sup>3</sup>

### Technical:

Pump speed on which pump data are based:   2975 rpm  
Rated flow:                                       160.8 m<sup>3</sup>/h  
Pump with motor (Yes/No):                   Y  
Rated head:                                       89.45 m  
Actual impeller diameter:                   270 mm  
Nominal impeller diameter:                   250  
Code for shaft seal:                           BQQE  
Mechanical seal type:                           Single  
Curve tolerance:                               ISO9906:2012 3B  
Bearing design:                                   Standard

### Materials:

Pump housing:                                   Cast iron



Company name:

Created by:

Phone:

Date:

16/06/2022

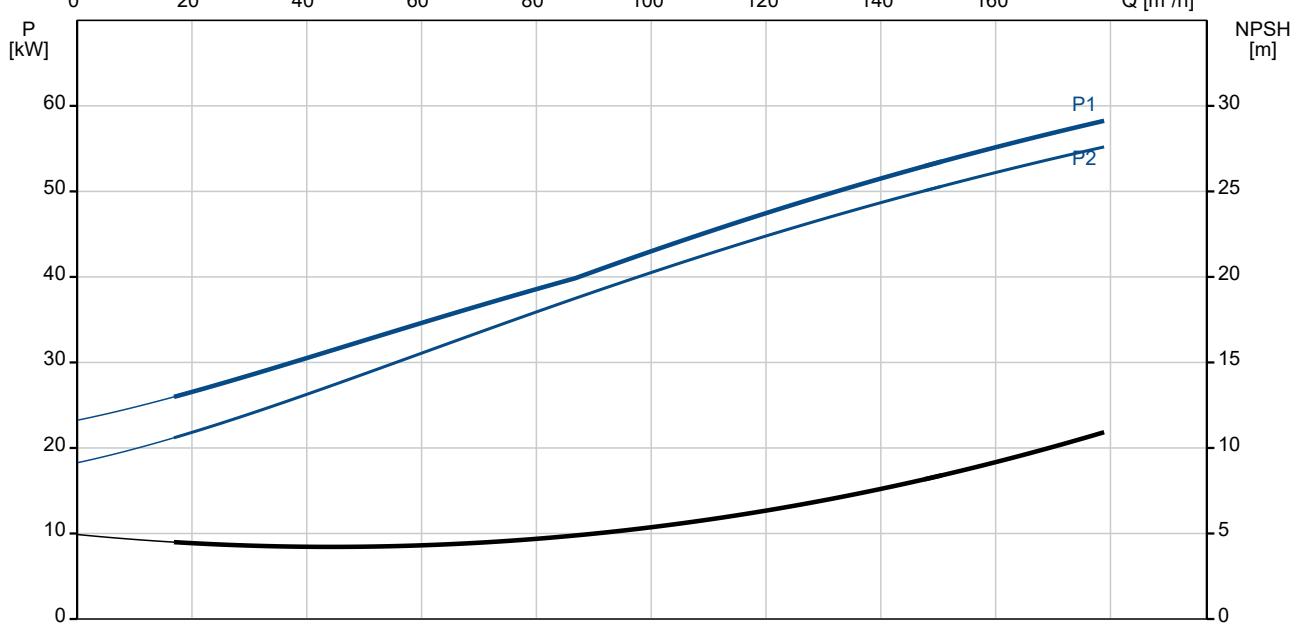
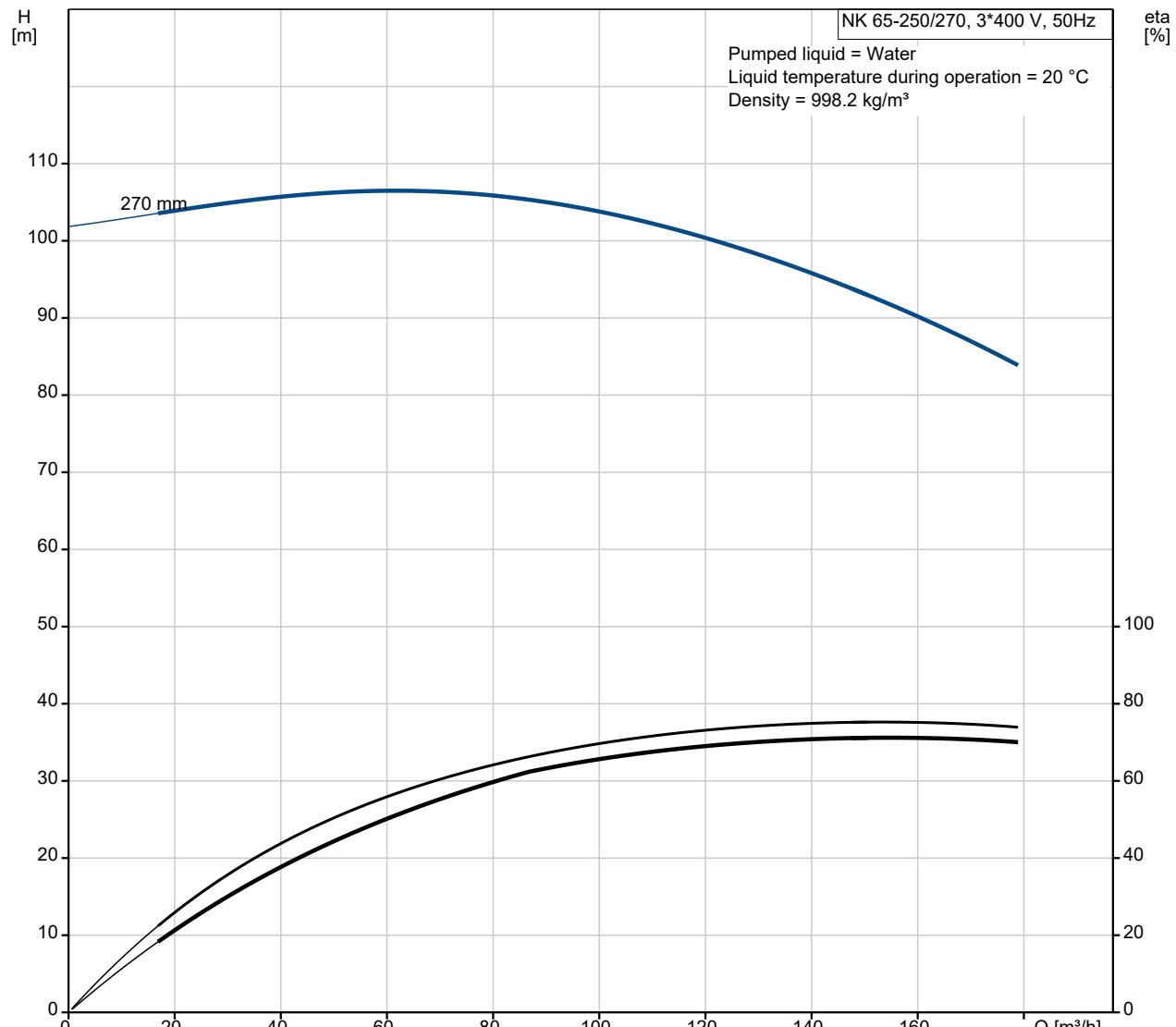
Qty.	Description
	EN-GJL-250 ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
	EN-GJL-200 ASTM class 30
Internal pump house coating:	CED
Shaft:	Stainless steel EN 1.4301 AISI 304
Installation:	
t max amb:	55 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	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/spacer
Base frame design:	EN/ISO
Code for base frame:	10
Grouting (Yes/No):	Y
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	128/74 A
Starting current:	680-680 %
Cos phi - power factor:	0.89
Rated speed:	2975 rpm
Efficiency:	IE3 94,7%
Motor efficiency at full load:	94.7-94.7 %
Motor efficiency at 3/4 load:	94.8-94.8 %
Motor efficiency at 1/2 load:	94.1-94.1 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	98943376
Bearing insulation type N-end:	STEEL BEARING
Others:	
Minimum efficiency index, MEI ≥:	0.51
Net weight:	941 kg
Gross weight:	980 kg
Shipping volume:	2.13 m <sup>3</sup>
Country of origin:	HU
Custom tariff no.:	84137059



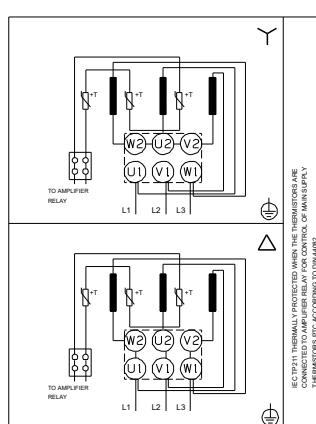
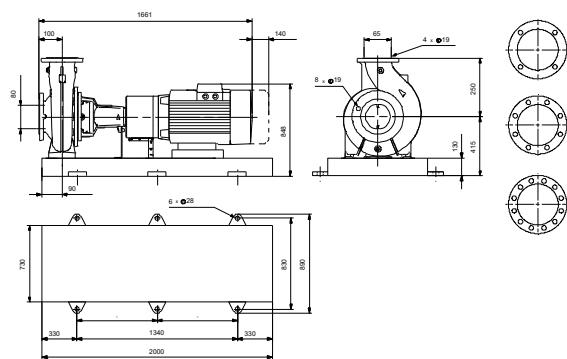
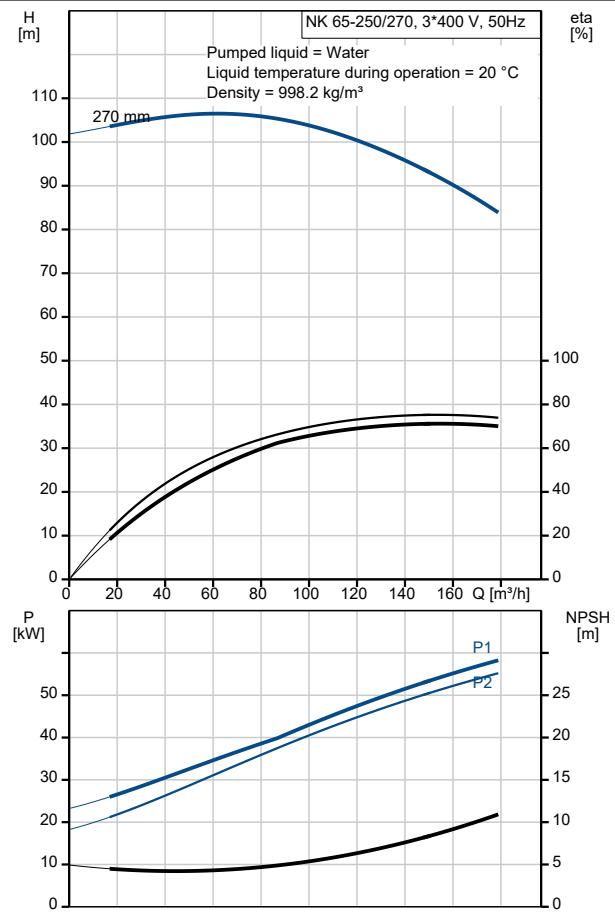
Company name:  
Created by:  
Phone:

Date: 16/06/2022

## 98972832 NK 65-250/270 AA2F2AESBQQEVW1 50 Hz



Description	Value
<b>General information:</b>	
Product name:	NK 65-250/270
Product No:	AA2F2AESBQQEVW1
EAN number:	98972832
<b>Technical:</b>	
Pump speed on which pump data are based:	2975 rpm
Rated flow:	160.8 m <sup>3</sup> /h
Pump with motor (Yes/No):	Y
Rated head:	89.45 m
Actual impeller diameter:	270 mm
Nominal impeller diameter:	250
Shaft diameter:	32 mm
Code for shaft seal:	BQQE
Mechanical seal type:	Single
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
Bearing design:	Standard
<b>Materials:</b>	
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
<b>Installation:</b>	
t max amb:	55 °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/spacer
Base frame design:	EN/ISO
Code for base frame:	10
Grouting (Yes/No):	Y
Connect code:	F
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	128/74 A



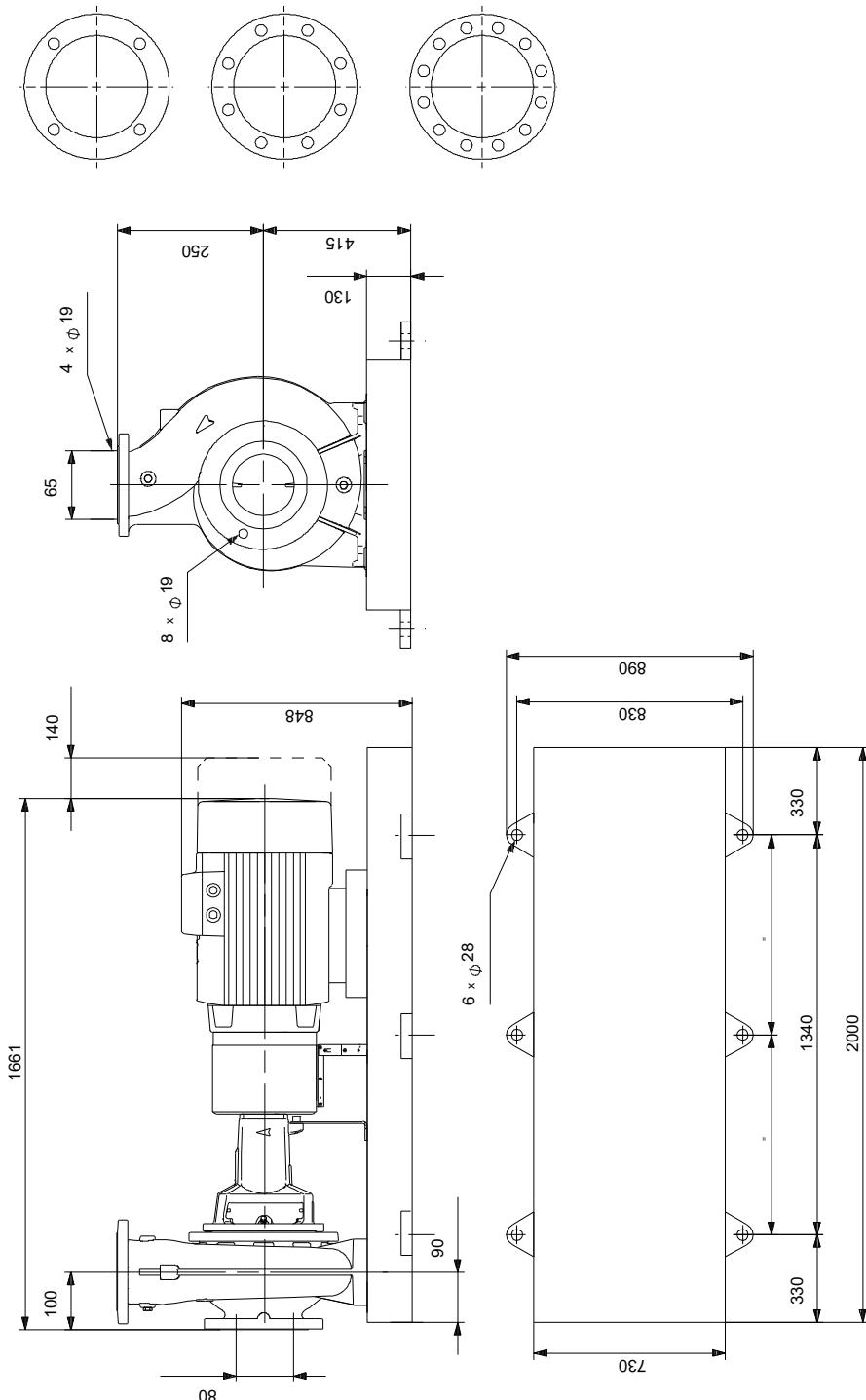


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Created by:  
Phone:

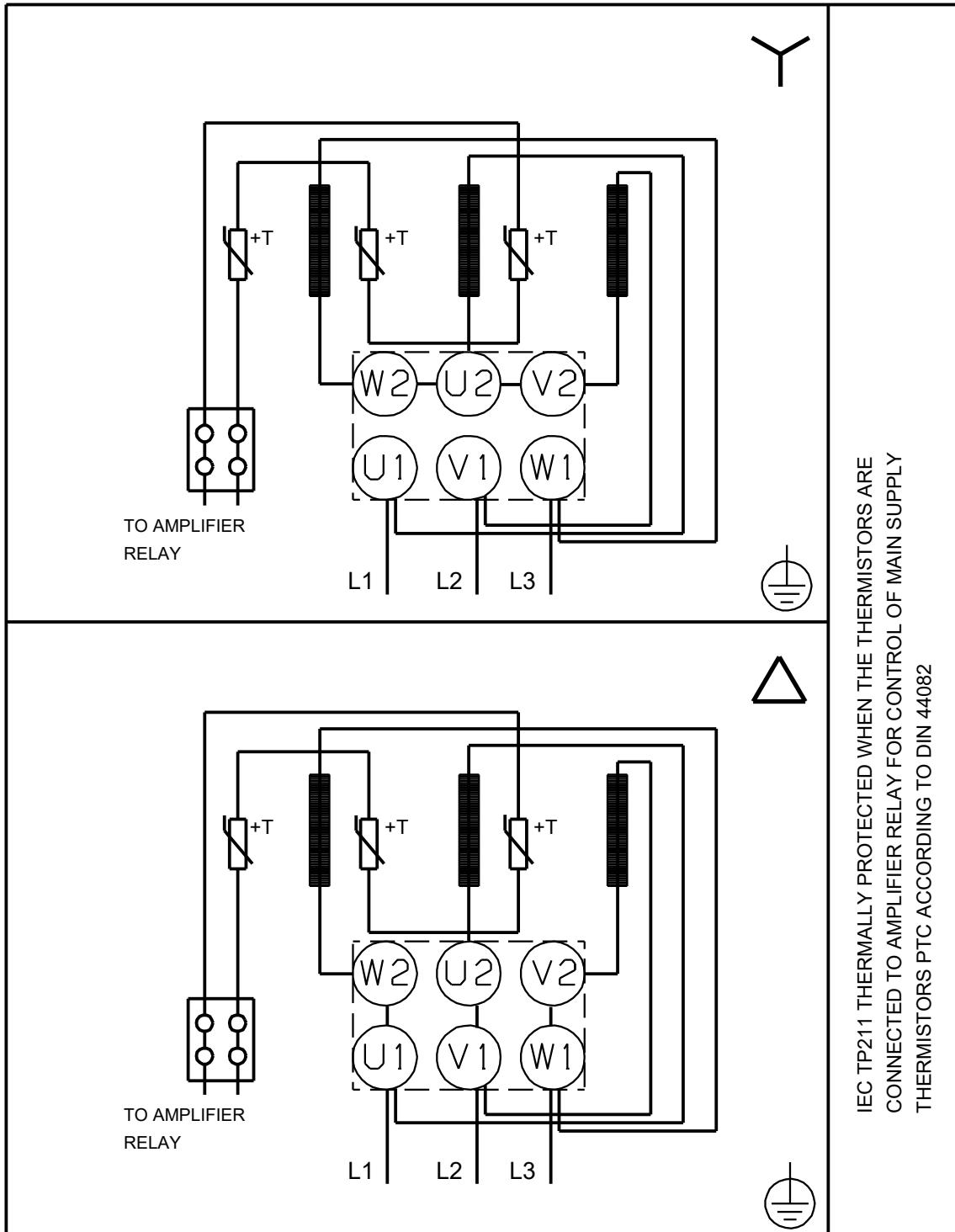
Date: 16/06/2022

Description	Value
Starting current:	680-680 %
Cos phi - power factor:	0.89
Rated speed:	2975 rpm
Efficiency:	IE3 94,7%
Motor efficiency at full load:	94.7-94.7 %
Motor efficiency at 3/4 load:	94.8-94.8 %
Motor efficiency at 1/2 load:	94.1-94.1 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No.:	98943376
Bearing insulation type N-end:	STEEL BEARING
<b>Controls:</b>	
Frequency converter:	NONE
Pressure sensor:	N
<b>Others:</b>	
Minimum efficiency index, MEI ≥:	0.51
Net weight:	941 kg
Gross weight:	980 kg
Shipping volume:	2.13 m <sup>3</sup>
Country of origin:	HU
Custom tariff no.:	84137059

## 98972832 NK 65-250/270 AA2F2AESBQQEVW1 50 Hz



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

**98972832 NK 65-250/270 AA2F2AESBQQEVW1 50 Hz**

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



Company name:

Created by:

Phone:

Date:

16/06/2022

**Order Data:**

Product name: NK 65-250/270

Amount: 1

Product No: 98972832

Total: Price on request