

Qty. Description

1 NK 125-315/338 AA2F2AESBQQETW3



Note! Product picture may differ from actual product

Product No.: [98972372](#)

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.

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.

Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

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.

This saves realignment of pump and motor after service.

- 1) Remove coupling.
- 2) Remove the bolts in the bearing bracket support foot.
- 3) Remove the bearing bracket 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.

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Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

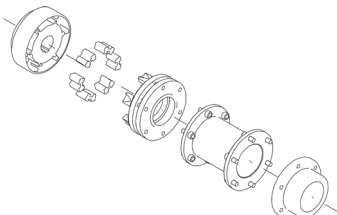
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The shaft is made of stainless steel and has a diameter of 42 mm where the coupling is mounted.

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

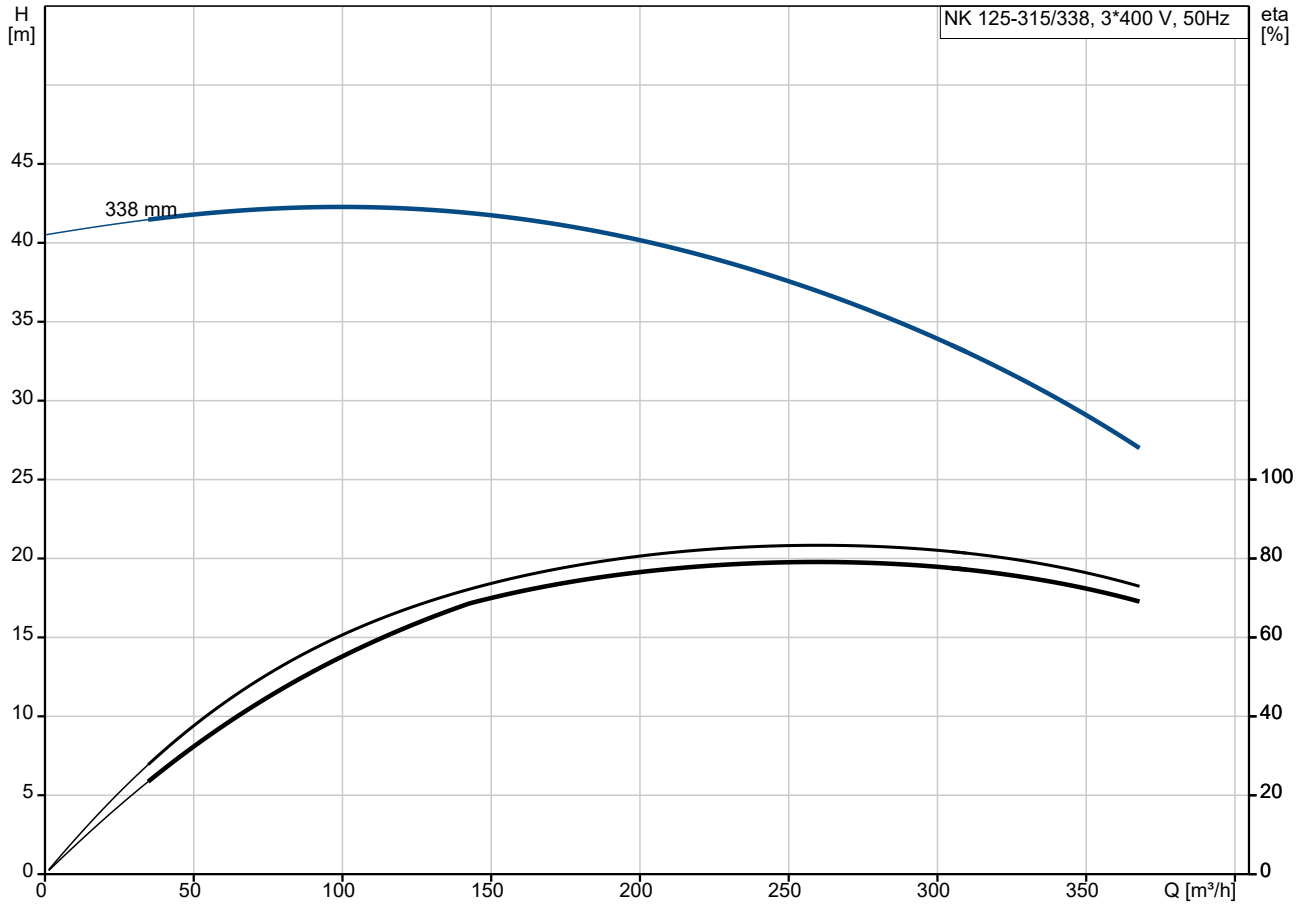


Qty.	Description																																														
1	<p data-bbox="201 338 284 371">Motor</p> <p data-bbox="201 376 1481 427">The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p data-bbox="201 432 1018 465">The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.</p> <p data-bbox="201 468 1481 519">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> <p data-bbox="201 521 1481 600">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 data-bbox="201 604 1481 656">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.</p> <p data-bbox="201 723 512 757">Further product details</p> <p data-bbox="201 761 1481 840">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 data-bbox="201 907 400 940">Technical data</p> <p data-bbox="201 969 300 1003">Controls:</p> <table data-bbox="201 1005 638 1057"> <tr> <td data-bbox="201 1005 432 1039">Frequency converter:</td> <td data-bbox="568 1005 638 1039">NONE</td> </tr> <tr> <td data-bbox="201 1041 384 1075">Pressure sensor:</td> <td data-bbox="568 1041 587 1075">N</td> </tr> </table> <p data-bbox="201 1088 272 1122">Liquid:</p> <table data-bbox="201 1124 702 1238"> <tr> <td data-bbox="201 1124 363 1158">Pumped liquid:</td> <td data-bbox="568 1124 638 1158">Water</td> </tr> <tr> <td data-bbox="201 1160 480 1193">Liquid temperature range:</td> <td data-bbox="568 1160 702 1193">-25 .. 120 °C</td> </tr> <tr> <td data-bbox="201 1196 504 1229">Selected liquid temperature:</td> <td data-bbox="568 1196 630 1229">20 °C</td> </tr> <tr> <td data-bbox="201 1232 288 1265">Density:</td> <td data-bbox="568 1232 694 1265">998.2 kg/m³</td> </tr> </table> <p data-bbox="201 1267 316 1301">Technical:</p> <table data-bbox="201 1303 818 1592"> <tr> <td data-bbox="201 1303 687 1337">Pump speed on which pump data are based:</td> <td data-bbox="719 1303 818 1337">1478 rpm</td> </tr> <tr> <td data-bbox="201 1339 320 1373">Rated flow:</td> <td data-bbox="568 1339 683 1373">265.4 m³/h</td> </tr> <tr> <td data-bbox="201 1375 496 1408">Pump with motor (Yes/No):</td> <td data-bbox="568 1375 587 1408">Y</td> </tr> <tr> <td data-bbox="201 1411 336 1444">Rated head:</td> <td data-bbox="568 1411 655 1444">36.16 m</td> </tr> <tr> <td data-bbox="201 1447 472 1480">Actual impeller diameter:</td> <td data-bbox="568 1447 655 1480">338 mm</td> </tr> <tr> <td data-bbox="201 1482 488 1516">Nominal impeller diameter:</td> <td data-bbox="568 1482 608 1516">315</td> </tr> <tr> <td data-bbox="201 1518 416 1552">Code for shaft seal:</td> <td data-bbox="568 1518 638 1552">BQQE</td> </tr> <tr> <td data-bbox="201 1554 440 1588">Mechanical seal type:</td> <td data-bbox="568 1554 630 1588">Single</td> </tr> <tr> <td data-bbox="201 1590 384 1624">Curve tolerance:</td> <td data-bbox="568 1590 759 1624">ISO9906:2012 3B</td> </tr> <tr> <td data-bbox="201 1626 368 1659">Bearing design:</td> <td data-bbox="568 1626 663 1659">Standard</td> </tr> </table> <p data-bbox="201 1626 304 1659">Materials:</p> <table data-bbox="201 1662 730 1977"> <tr> <td data-bbox="201 1662 363 1695">Pump housing:</td> <td data-bbox="568 1662 730 1740">Cast iron EN-GJL-250 ASTM class 35</td> </tr> <tr> <td data-bbox="201 1742 312 1776">Wear ring:</td> <td data-bbox="568 1742 630 1776">Brass</td> </tr> <tr> <td data-bbox="201 1778 296 1812">Impeller:</td> <td data-bbox="568 1778 730 1856">Cast iron EN-GJL-200 ASTM class 30</td> </tr> <tr> <td data-bbox="201 1859 512 1892">Internal pump house coating:</td> <td data-bbox="568 1859 619 1892">CED</td> </tr> <tr> <td data-bbox="201 1895 264 1928">Shaft:</td> <td data-bbox="568 1895 722 1973">Stainless steel EN 1.4301 AISI 304</td> </tr> </table> <p data-bbox="201 2009 328 2042">Installation:</p> <table data-bbox="201 2045 638 2096"> <tr> <td data-bbox="201 2045 320 2078">t max amb:</td> <td data-bbox="568 2045 630 2078">55 °C</td> </tr> <tr> <td data-bbox="201 2080 520 2114">Maximum operating pressure:</td> <td data-bbox="568 2080 638 2114">16 bar</td> </tr> </table>	Frequency converter:	NONE	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:	1478 rpm	Rated flow:	265.4 m ³ /h	Pump with motor (Yes/No):	Y	Rated head:	36.16 m	Actual impeller diameter:	338 mm	Nominal impeller diameter:	315	Code for shaft seal:	BQQE	Mechanical seal type:	Single	Curve tolerance:	ISO9906:2012 3B	Bearing design:	Standard	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	t max amb:	55 °C	Maximum operating pressure:	16 bar
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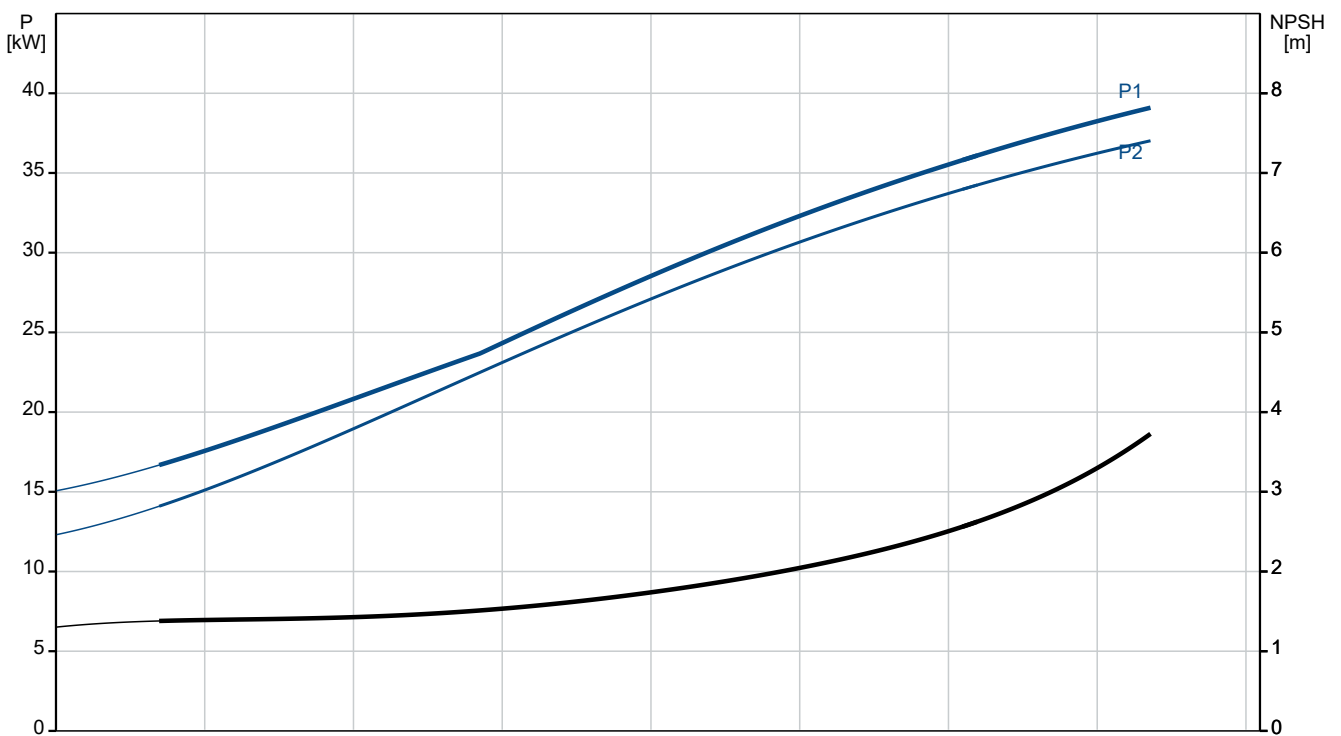
Qty. Description

1	<p>Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DN 150 Size of outlet connection: DN 125 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 9 Grouting (Yes/No): N</p> <p>Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 80/46.5 A Starting current: 660-660 % Cos phi - power factor: 0.86 Rated speed: 1478 rpm Efficiency: IE3 94,2% Motor efficiency at full load: 94.2-94.2 % Motor efficiency at 3/4 load: 94.9-94.9 % Motor efficiency at 1/2 load: 95-95 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98957821 Bearing insulation type N-end: STEEL BEARING</p> <p>Others: Minimum efficiency index, MEI ≥: 0.63 Net weight: 712 kg Gross weight: 779 kg Shipping volume: 1.49 m³</p>
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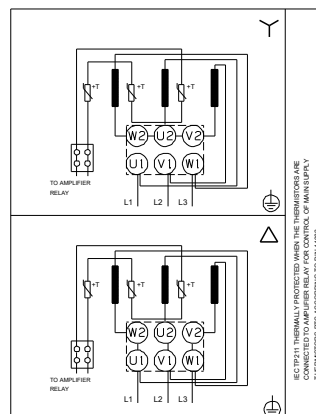
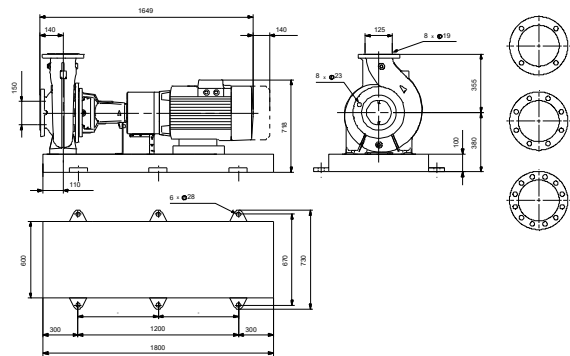
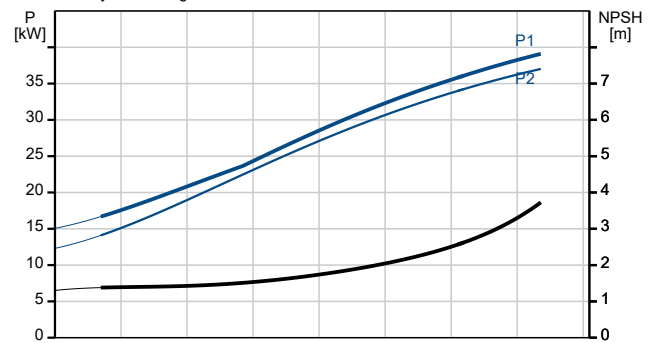
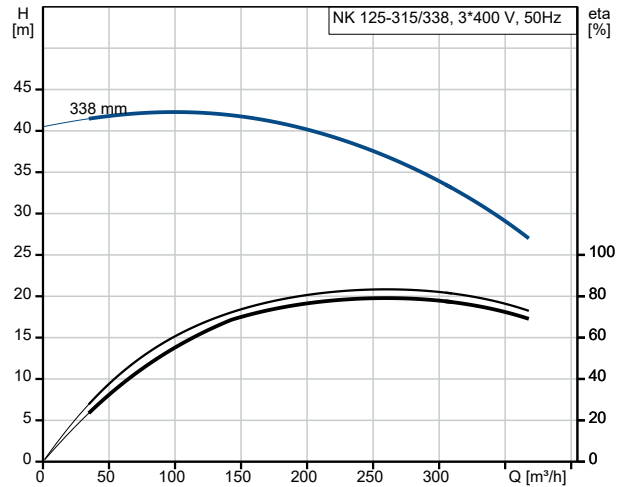
98972372 NK 125-315/338 AA2F2AESBQQETW3 50 Hz



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



Description	Value
General information:	
Product name:	NK 125-315/338 AA2F2AESBQQETW3
Product No:	98972372
EAN number:	5712604483978
Technical:	
Pump speed on which pump data are based:	1478 rpm
Rated flow:	265.4 m ³ /h
Pump with motor (Yes/No):	Y
Rated head:	36.16 m
Actual impeller diameter:	338 mm
Nominal impeller diameter:	315
Shaft diameter:	42 mm
Code for shaft seal:	BQQE
Mechanical seal type:	Single
Curve tolerance:	ISO9906:2012 B3
Pump version:	A2
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:	
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 150
Size of outlet connection:	DN 125
Pressure rating for connection:	PN 16
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Code for base frame:	9
Grouting (Yes/No):	N
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	80/46.5 A





Company name:

Created by:

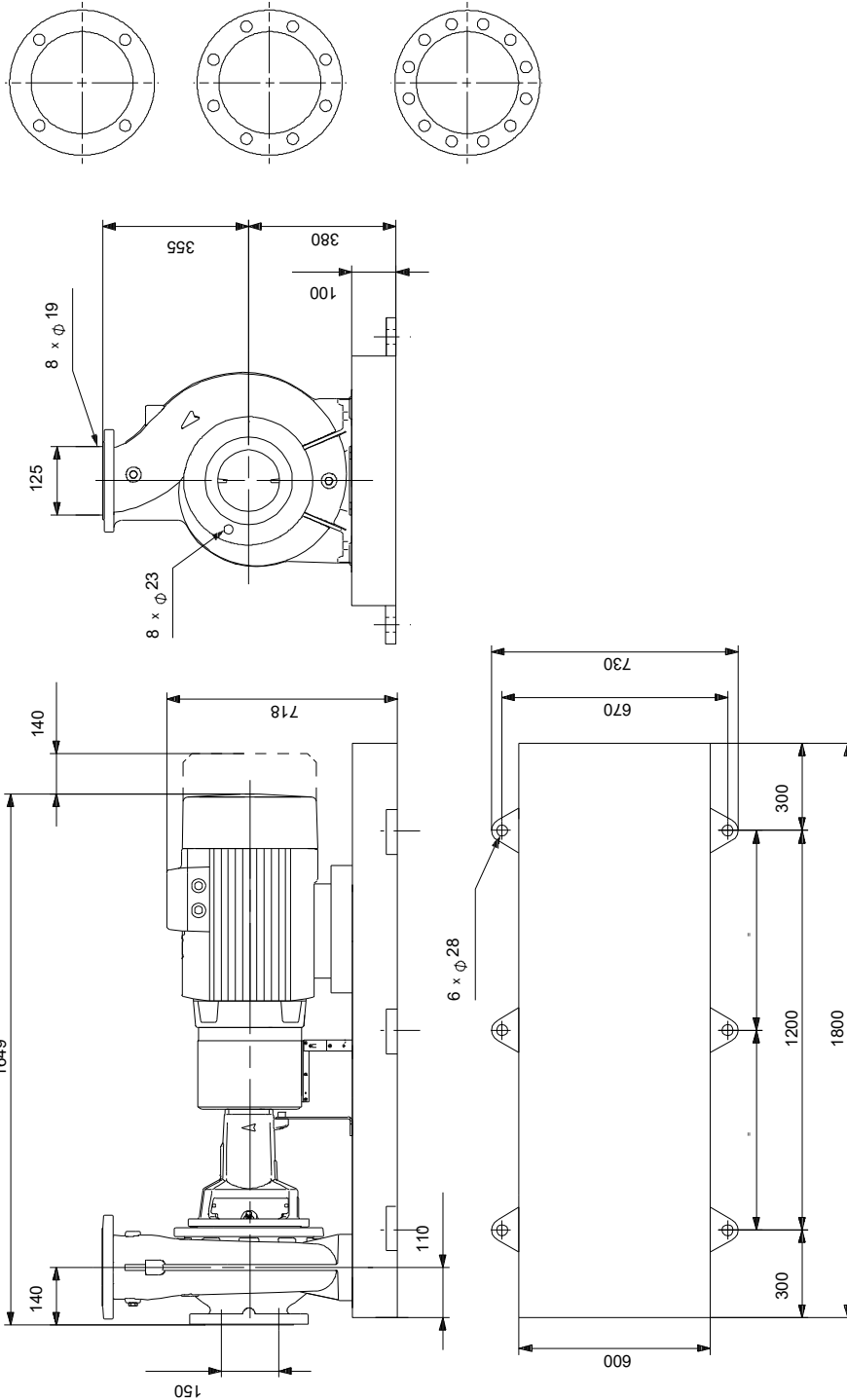
Phone:

Date:

28/12/2022

Description	Value
Starting current:	660-660 %
Cos phi - power factor:	0.86
Rated speed:	1478 rpm
Efficiency:	IE3 94,2%
Motor efficiency at full load:	94.2-94.2 %
Motor efficiency at 3/4 load:	94.9-94.9 %
Motor efficiency at 1/2 load:	95-95 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	98957821
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.63
Net weight:	712 kg
Gross weight:	779 kg
Shipping volume:	1.49 m ³

98972372 NK 125-315/338 AA2F2AESBQQETW3 50 Hz



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

98972372 NK 125-315/338 AA2F2AESBQQETW3 50 Hz



IEC TP211 THERMALLY PROTECTED WHEN THE THERMISTORS ARE
CONNECTED TO AMPLIFIER RELAY FOR CONTROL OF MAIN SUPPLY
THERMISTORS PTC ACCORDING TO DIN 44082

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
		NK 125-315/338	1	98972372	Price on request