

Submittal Data

| | | |
|-----------------------|------------------|-------------|
| PROJECT: | UNIT TAG: | QUANTITY: |
| REPRESENTATIVE: _____ | TYPE OF SERVICE: | DATE: _____ |
| ENGINEER: | SUBMITTED BY: | DATE: |
| CONTRACTOR: | APPROVED BY: | DATE: |
| | ORDER NO.: | DATE: |

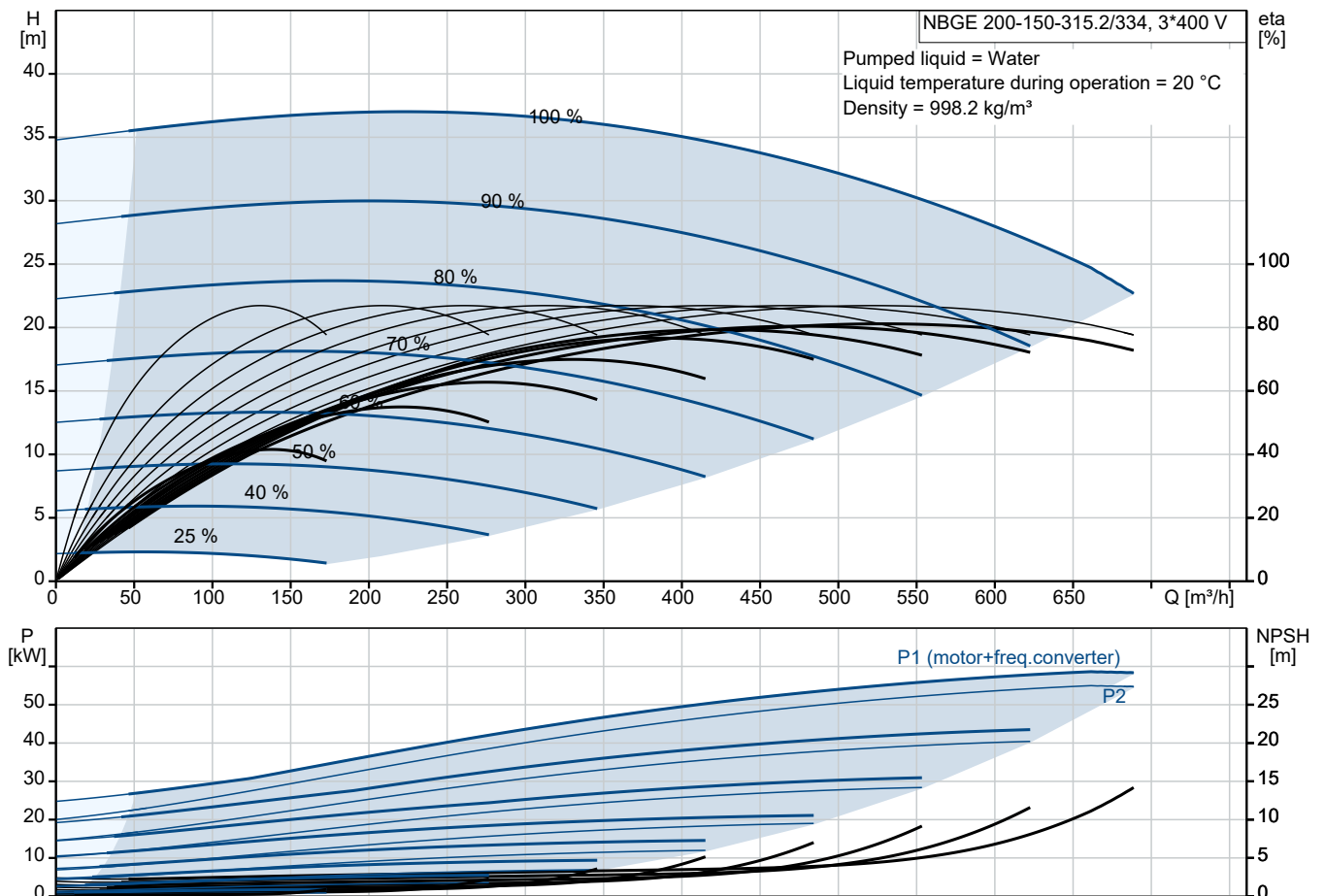


NBGE 200-150-315.2/334 AIAF2KVSBQQVUW3

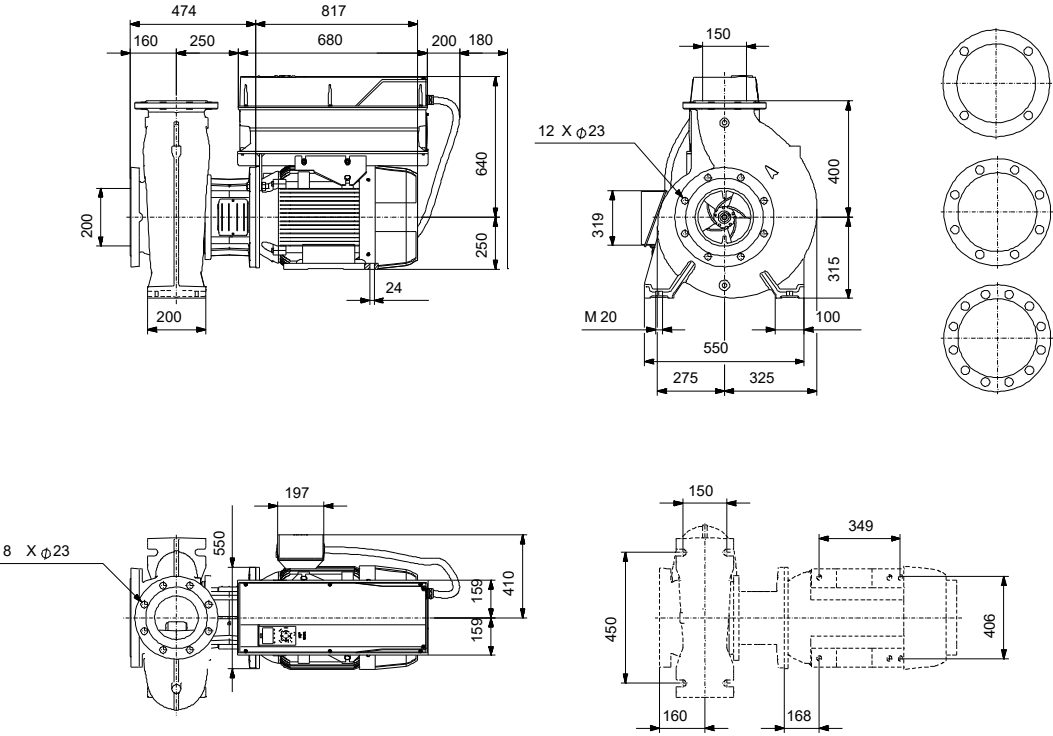
End-suction close-coupled pumps according to ISO 2858 with frequency-controlled motors.

Note! Product picture may differ from actual product

| Conditions of Service | Pump Data | Motor Data |
|-------------------------|--|------------------------------------|
| Liquid: Water | Liquid temperature range: -10 .. 90 °C | Rated voltage: 380-420D/660-725Y V |
| Temperature: 20 °C | Maximum ambient temperature: 50 °C | Mains frequency: 50 Hz |
| Specific Gravity: 1.000 | Shaft seal: BQQV | Enclosure class: IP55 |
| | Product number: On request | Insulation class: F |
| | | Motor protection: PTC |
| | | Eta 1/1: 95.7 % |



Submittal Data



- Materials:**
- Pump housing: Stainless steel
 - Pump housing: ASTM CF8M
 - Impeller: Stainless steel
 - Impeller: ASTM CF8M
 - Impeller: EN 1.4408
 - Material code: K
 - Code for rubber: V

Qty. Description

1 NBGE 200-150-315.2/334 AIAF2KVSBQQVUW3



Note! Product picture may differ from actual product

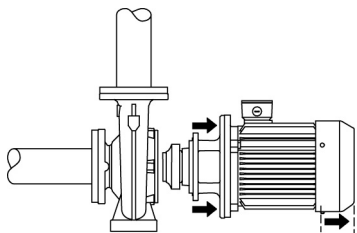
Product No.: On request

Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to ISO 2858 (16 bar). Flanges are PN 16 with dimensions according to EN 1092-1. 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 asynchronous motor.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



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.

The motor stool is made of cast iron (EN-GJL-250) and the pump cover is made of stainless steel (EN 1.4408). Coupling guards are fitted to the motor stool.

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 pump housing has feet.

The pump has loose flanges.

The loose flanges are made of cast iron (EN-GJS-500-7/ASTM 70-50-05).

The language on the pump nameplate is English.

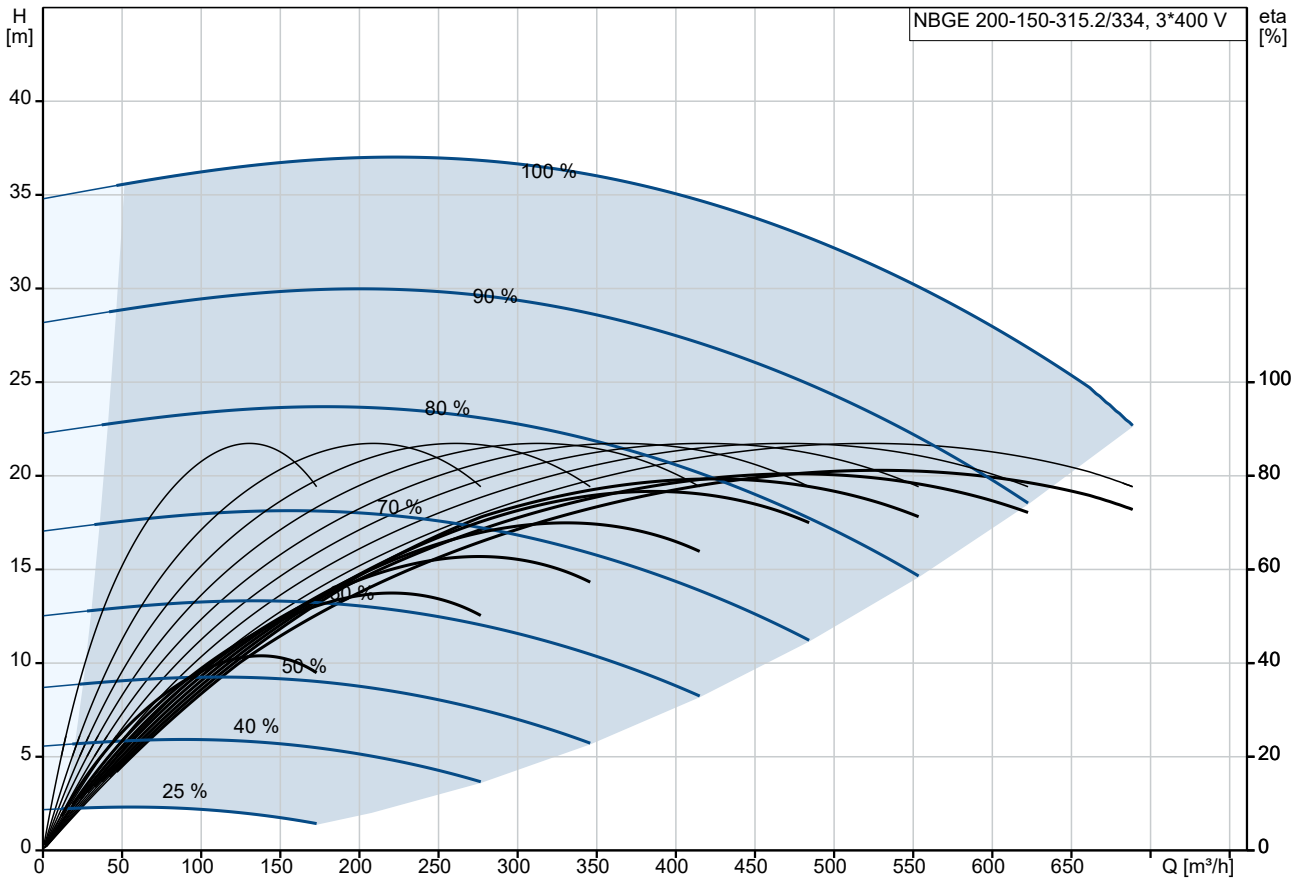
Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

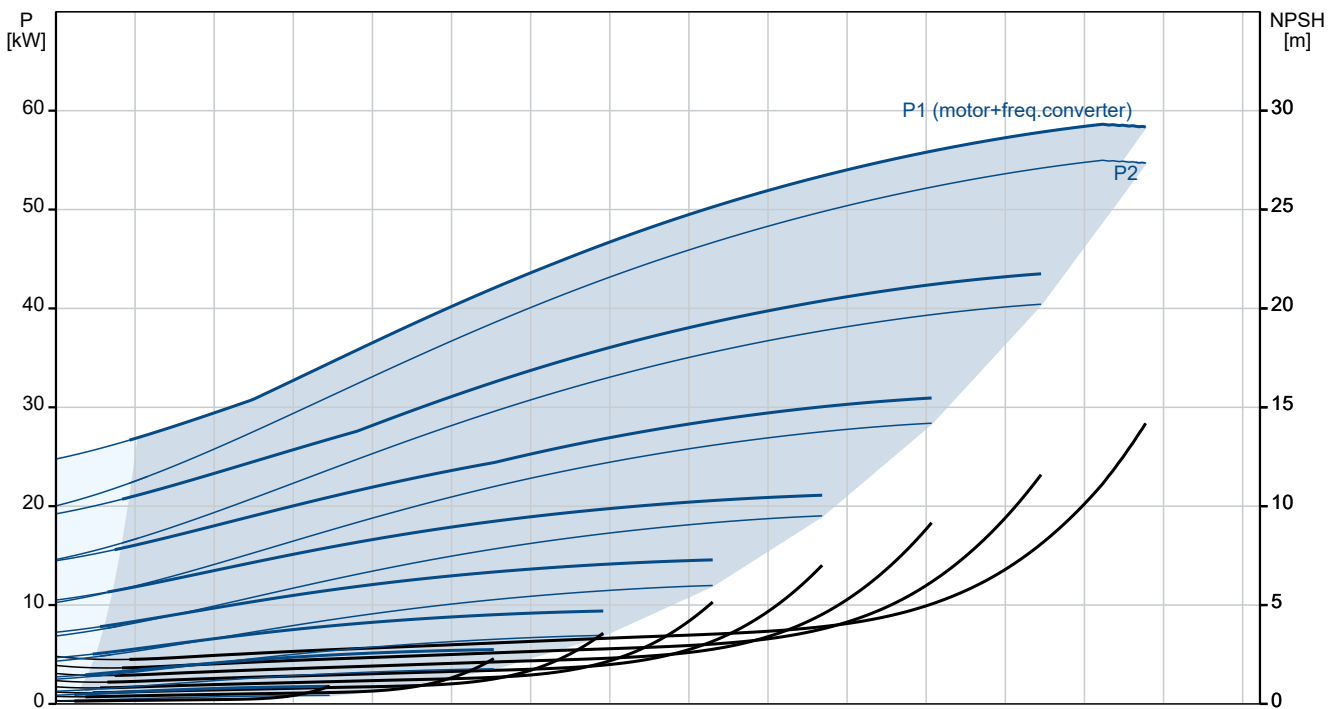
The motor efficiency is classified as IE4 in accordance with IEC 60034-30-1.

| Qty. | Description |
|------|--|
| 1 | <p>Pipe connection standard: EN 1092-1 Size of inlet connection: DN 200 Size of outlet connection: DN 150 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N</p> <p>Electrical data: Rated power - P2: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 96.0/56.0 A Starting current: 820 % Cos phi - power factor: 0.86 Rated speed: 1486 rpm IE efficiency: IE4 95,7% IE Efficiency class: IE4 Motor efficiency at full load: 95.7 % Motor efficiency at 3/4 load: 95.8 % Motor efficiency at 1/2 load: 95.4 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 92691612 Bearing insulation type N-end: COATED RING</p> <p>Others: Minimum efficiency index, MEI ≥: 0.67 Net weight: 811 kg Gross weight: 897 kg Shipping volume: 1.88 m³ Country of origin: HU Custom tariff no.: 84137051 Language on pump nameplate: GB</p> |

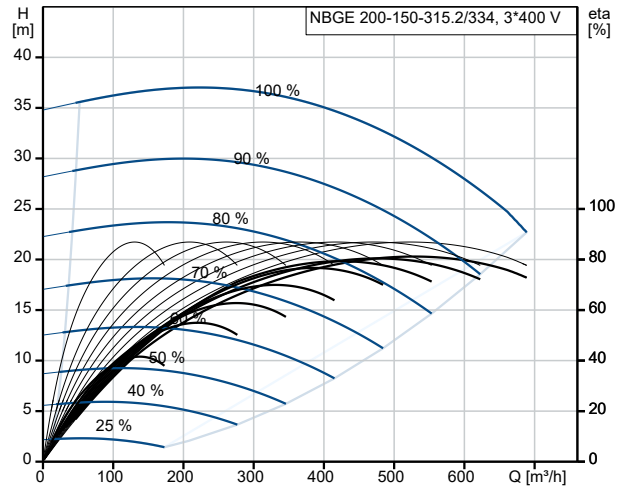
On request NBGE 200-150-315.2/334 AIAF2KVSBQQVUW3 50 Hz



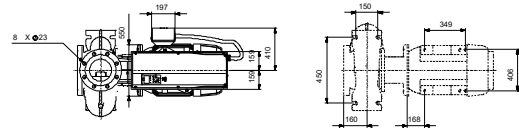
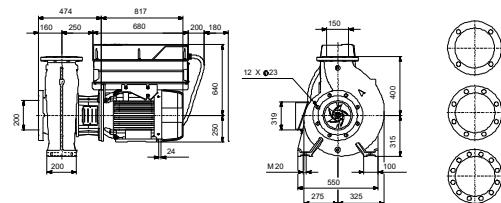
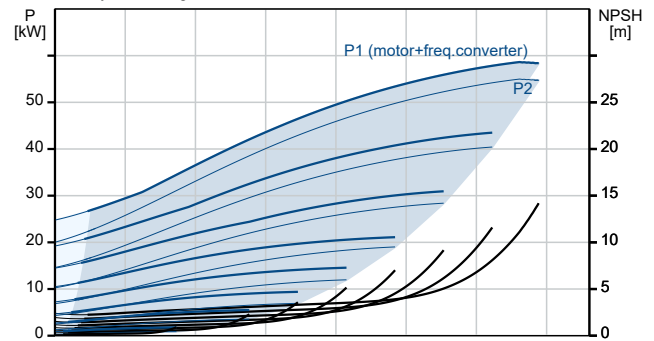
Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³



| Description | Value |
|--|---|
| General information: | |
| Product name: | NBGE 200-150-315.2/334 AIAF2KVSBBQQVUW3 |
| Product No: | On request |
| EAN number: | On request |
| Technical: | |
| Pump speed on which pump data are based: | 1486 rpm |
| Rated flow: | 533.6 m ³ /h |
| Rated head: | 30.88 m |
| Actual impeller diameter: | 334 mm |
| Nominal impeller diameter: | 315.2 |
| Type of impeller: | Standard |
| Shaft seal arrangement: | Single |
| Shaft diameter: | 48 mm |
| Code for shaft seal: | BQQV |
| Curve tolerance: | ISO9906:2012 3B |
| Pump version: | A |
| Bearing design: | Standard |
| Materials: | |
| Pump housing: | Stainless steel |
| Pump housing: | EN 1.4408 |
| Pump housing: | ASTM CF8M |
| Wear ring: | Stainless steel |
| Flange: | Cast iron |
| Flange: | EN-GJS-500-7 |
| Flange: | ASTM 70-50-05 |
| Impeller: | Stainless steel |
| Impeller: | EN 1.4408 |
| Impeller: | ASTM CF8M |
| Internal pump house coating: | No coating |
| Material code: | K |
| Code for rubber: | V |
| Shaft: | Stainless steel |
| Shaft: | EN 1.4401 |
| Shaft: | AISI 316 |
| Installation: | |
| Range of ambient temperature: | -10 .. 50 °C |
| Maximum operating pressure: | 16 bar |
| Pipe connection standard: | EN 1092-1 |
| Size of inlet connection: | DN 200 |
| Size of outlet connection: | DN 150 |
| Pressure rating for connection: | PN 16 |
| Bearing lubrication: | Grease |
| Pump housing with feet: | Yes |
| Support block (Yes/No): | N |
| Connect code: | F2 |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -10 .. 90 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m ³ |
| Electrical data: | |
| Rated power - P2: | 55 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-420D/660-725Y V |
| Rated current: | 96.0/56.0 A |
| Starting current: | 820 % |



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





Company name:

Created by:

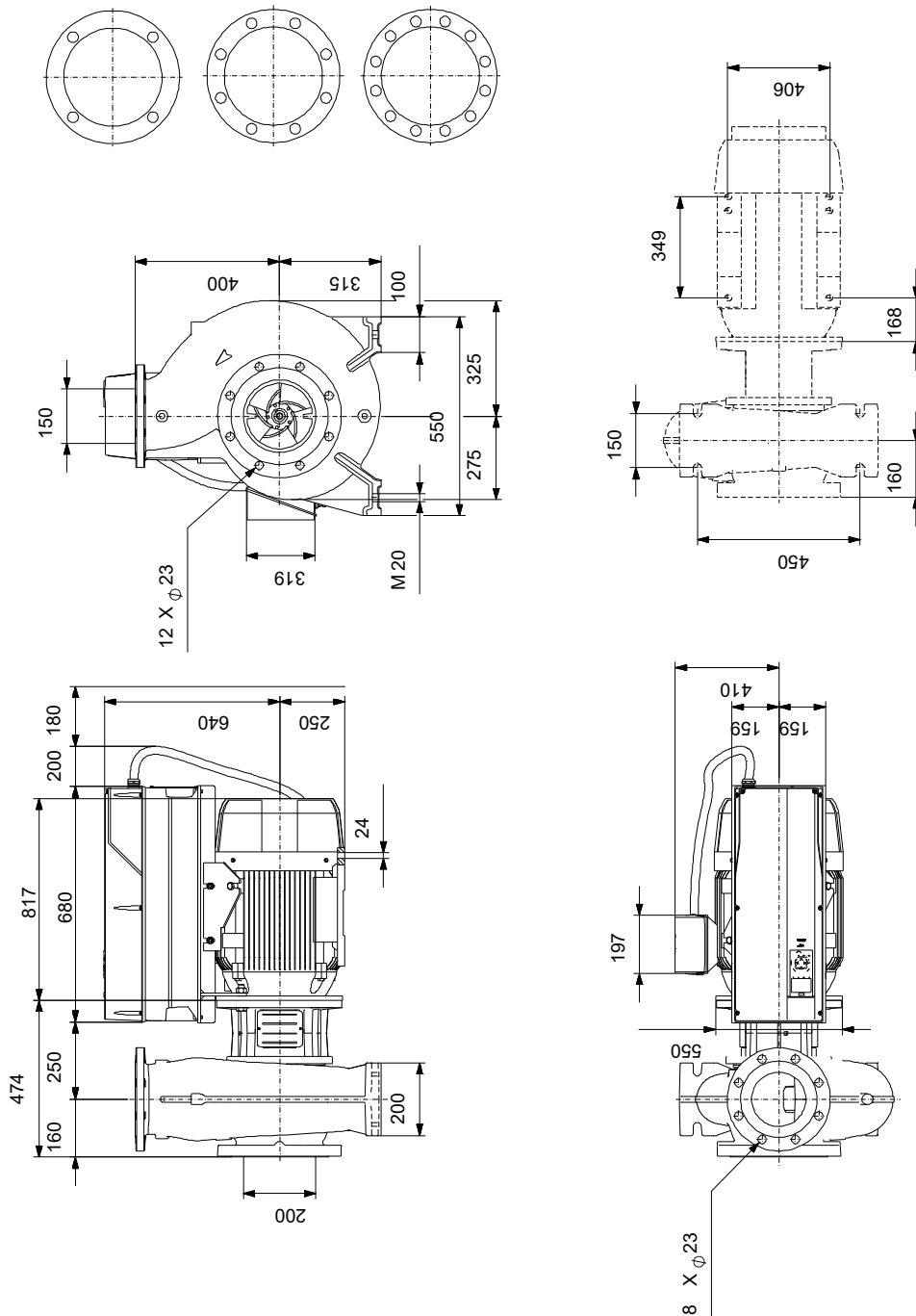
Phone:

Date:

24/10/2024

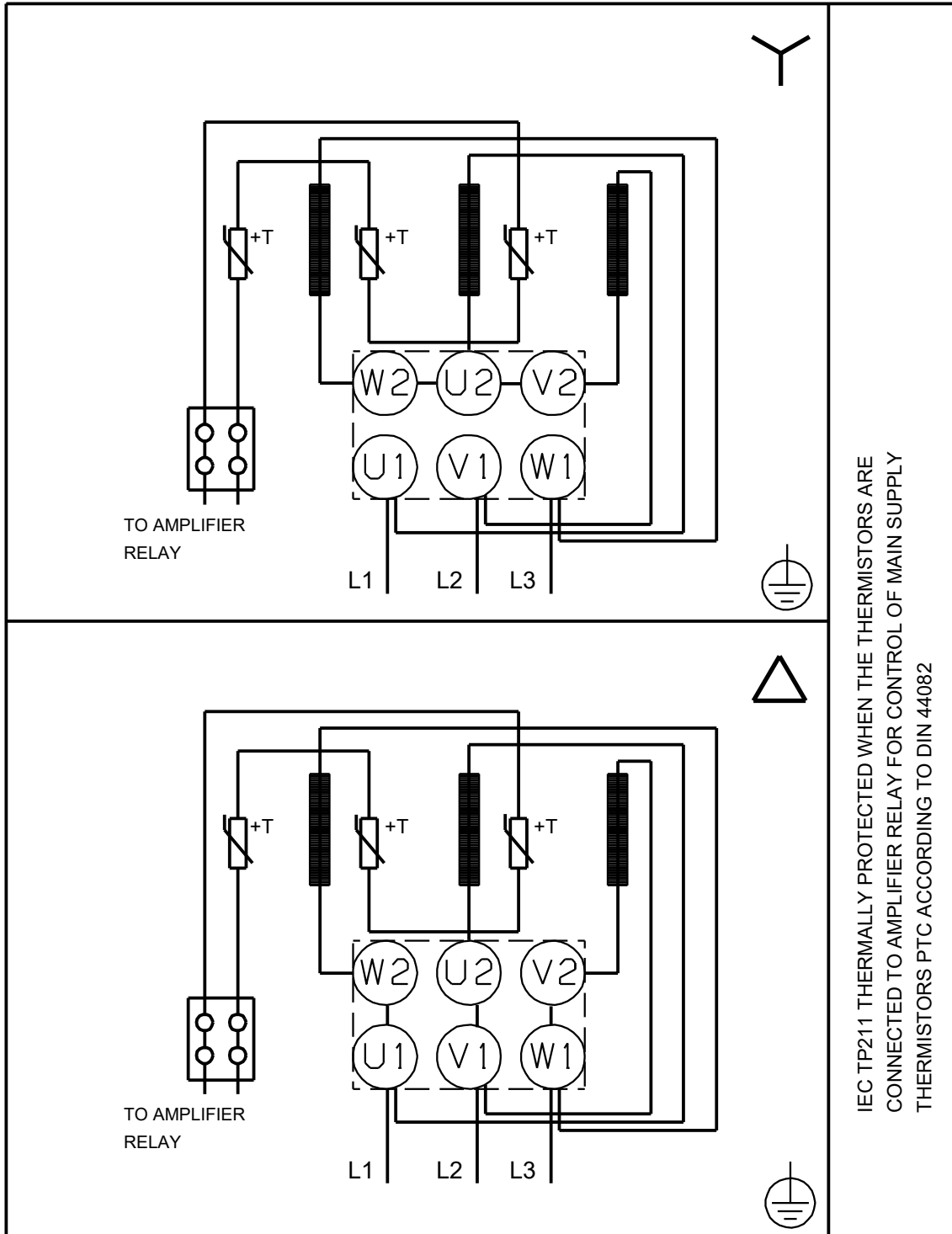
| Description | Value |
|----------------------------------|---------------------------------|
| Cos phi - power factor: | 0.86 |
| Rated speed: | 1486 rpm |
| IE efficiency: | IE4 95,7% |
| IE Efficiency class: | IE4 |
| Motor efficiency at full load: | 95.7 % |
| Motor efficiency at 3/4 load: | 95.8 % |
| Motor efficiency at 1/2 load: | 95.4 % |
| Number of poles: | 4 |
| Enclosure class (IEC 34-5): | IP55 |
| Insulation class (IEC 85): | F |
| Built-in motor protection: | PTC |
| Motor No: | 92691612 |
| Mount. design. acc. IEC 34-7: | IM B35 |
| Bearing insulation type N-end: | COATED RING |
| Controls: | |
| VFD product number: | 99616826 |
| Frequency converter: | Built-in |
| Type of frequency converter: | CUE 3X380-500V IP55 RUG 55KW |
| Appr. for VFD: | CE, CULUS, C-TICK |
| Pressure sensor: | N |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.67 |
| Net weight: | 811 kg |
| Gross weight: | 897 kg |
| Shipping volume: | 1.88 m ³ |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |
| Language on pump nameplate: | GB |

On request NBGE 200-150-315.2/334 AIAF2KVSBQQVUW3 50 Hz



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

On request NBGE 200-150-315.2/334 AIAF2KVSBBQQVUW3 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.

