

## NK125-200/176-150 EUPA2F2AE-SBAQE

Grundfos Pump 98760187



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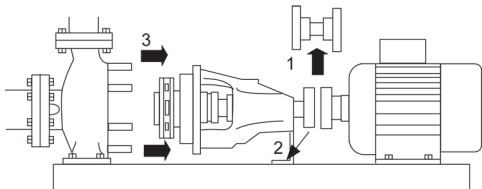
Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/NKBASIS/98760187/NK-125-200-176-150-EUP-A2-F-A-E-BAQE.html>

[info@lenntech.com](mailto:info@lenntech.com)

tel. +31-15-261.09.00

fax. +31-15-261.62.89

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|          | 1    | <p><b>NK 125-200/176-150 EUP A2-F-A-E-BAQE</b></p>  <p>Product No.: <a href="#">98760187</a></p> <p>Non-self-priming, single-stage, centrifugal volute 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><b>Further product details</b></p> <p>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.</p> <p>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 make service on the pump without dismantling the pump housing and motor from the base frame. 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>  <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. An integral part of the process is a pretreatment. The entire process consists of these elements:</p> <ol style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Zinc phosphating.</li> <li>3) Cathodic electro-deposition.</li> <li>4) Curing to a dry film thickness 18-22 my m.</li> </ol> <p>The colour code for the finished product is NCS 9000/RAL 9005.</p> <p><b>Pump</b></p> <p>The pump housing has both a priming and a drain hole closed by plugs.</p> <p>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 or cast iron.</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>Primary seal:</p> <ul style="list-style-type: none"> <li>- Rotating seal ring material: Carbon graphite, metal-impregnated</li> <li>- Stationary seat material: Silicon carbide (SiC)</li> </ul> |

This material pairing has a very good corrosion resistance and is especially suitable for water up to +120 °C. However, seal life will be reduced at temperatures above +90 °C. The material pairing is not recommended for liquids containing particles as this will result in heavy wear on the SiC face.

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 32 mm where the coupling is mounted.

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



## Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards and mounting designation B3 (IM 1001). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

## Technical data

### Liquid:

Pumped liquid: Water  
Liquid temperature range: 0 .. 120 °C  
Liquid temperature during operation: 20 °C  
Density: 998.2 kg/m<sup>3</sup>

### Technical:

Speed for pump data: 970 rpm  
Rated flow: 137 m<sup>3</sup>/h  
Rated head: 2.9 m  
Actual impeller diameter: 176-150 EUP mm  
Impeller nom: 200 mm  
Primary shaft seal: BAQE  
Secondary shaft seal: NONE  
Curve tolerance: ISO9906:2012 3B

### Materials:

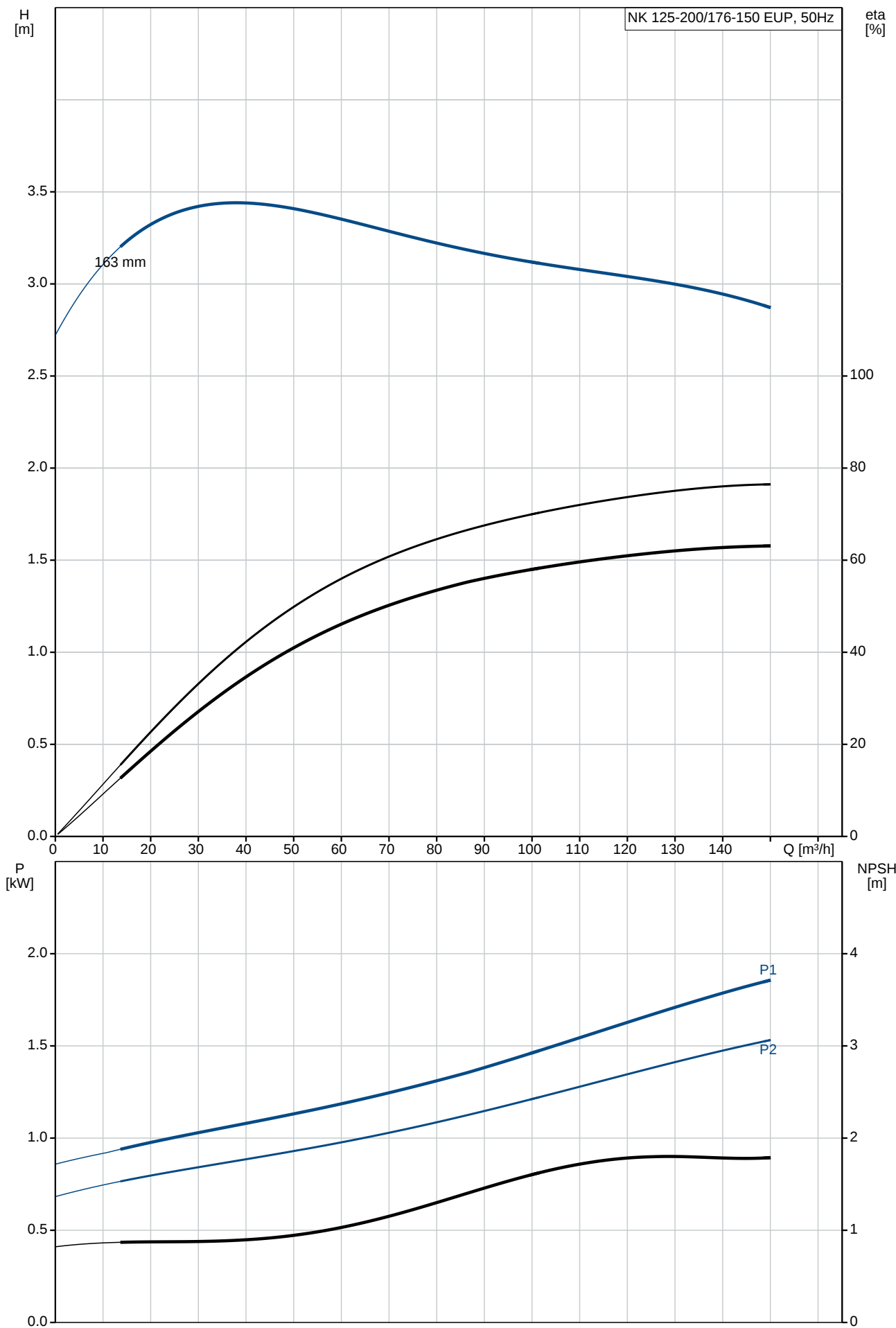
Pump housing: Cast iron  
EN-GJL-250  
ASTM A48-40 B  
Impeller: Cast iron  
EN-GJL-200  
ASTM A48-30 B  
Rubber: EPDM  
Wear ring mat.: High alloy brass(CuZn34Mn3Al2)

### Installation:

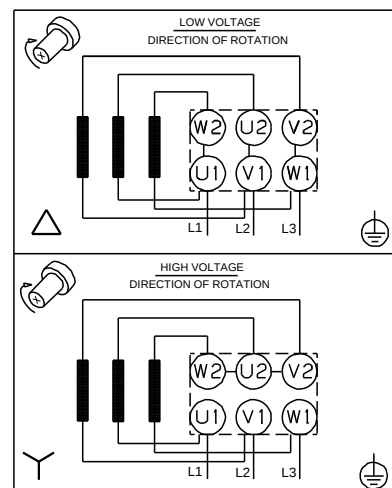
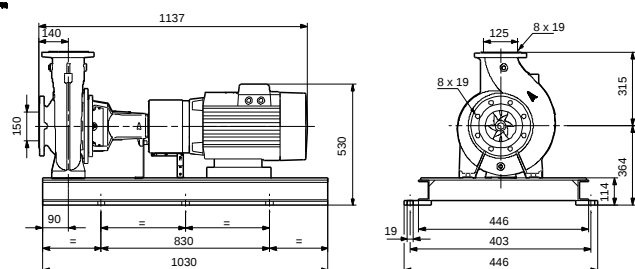
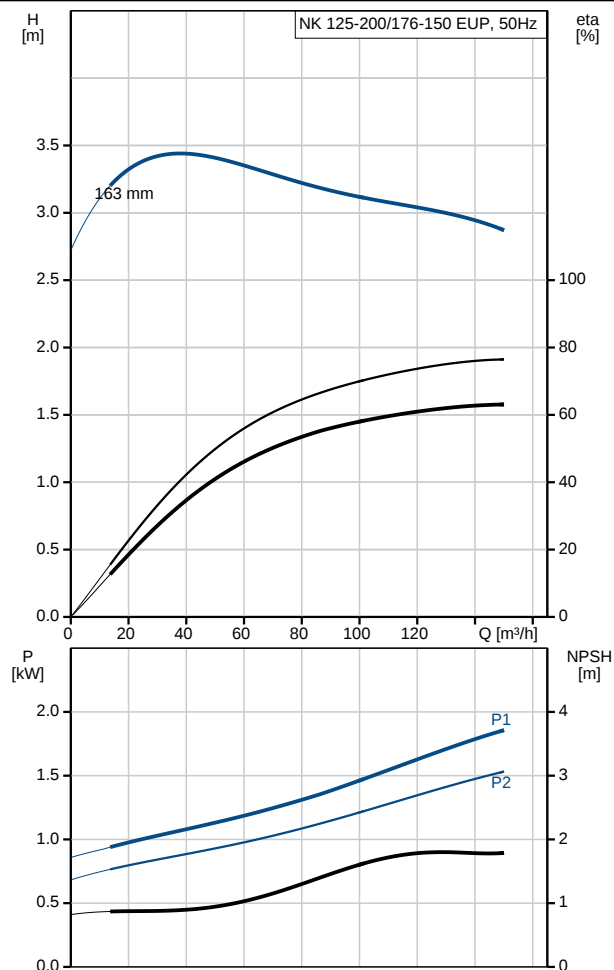
Maximum ambient temperature: 55 °C  
Maximum operating pressure: 16 bar  
Flange standard: EN 1092-2  
Pump inlet: DN 150  
Pump outlet: DN 125  
Pressure rating: PN 16  
Coupling type: Spacer

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Base frame: C - Channel</p> <p><b>Electrical data:</b></p> <p>Motor type: SIEMENS</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 1.5 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 220-240D/380-420Y V</p> <p>Rated current: 6,60-5,90/3,80-3,40 A</p> <p>Starting current: 560-560 %</p> <p>Cos phi - power factor: 0,73</p> <p>Rated speed: 970 rpm</p> <p>Efficiency: IE3 82,5%</p> <p>Motor efficiency at full load: 82.5-82.5 %</p> <p>Motor efficiency at 3/4 load: 83.0-83.0 %</p> <p>Motor efficiency at 1/2 load: 81.4-81.4 %</p> <p>Number of poles: 6</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Lubricant type: Grease</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>ErP status: EuP Standalone/Prod.</p> <p>Net weight: 213 kg</p> <p>Gross weight: 322 kg</p> <p>Shipping volume: 1.11 m³</p> |

98760187 NK 125-200/176-150 EUP 50 Hz

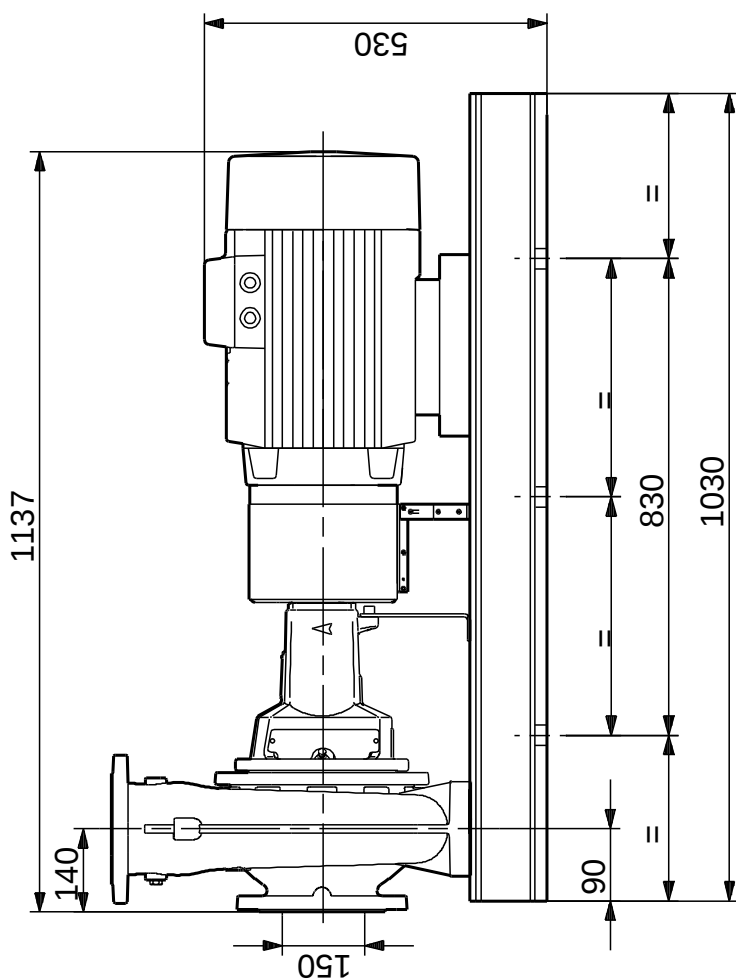
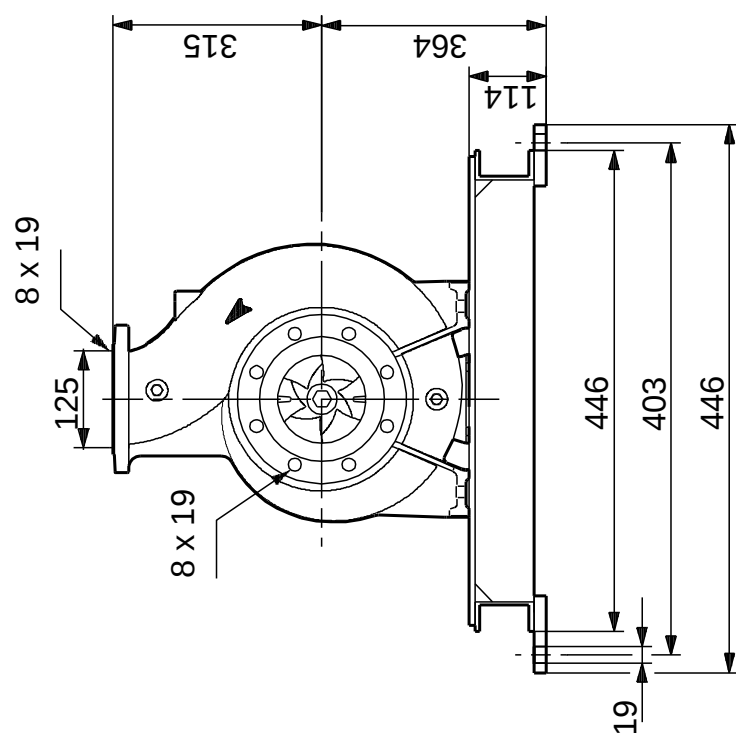


| Description                          | Value                   |
|--------------------------------------|-------------------------|
| <b>General information:</b>          |                         |
| Product name:                        | NK 125-200/176-150 EUP  |
| Product No:                          | A2-F-A-E-BAQE           |
| EAN number:                          | 98760187                |
|                                      | 5712600991729           |
| <b>Technical:</b>                    |                         |
| Speed for pump data:                 | 970 rpm                 |
| Rated flow:                          | 137 m³/h                |
| Rated head:                          | 2.9 m                   |
| Actual impeller diameter:            | 176-150 EUP mm          |
| Impeller nom:                        | 200 mm                  |
| Primary shaft seal:                  | BAQE                    |
| Secondary shaft seal:                | NONE                    |
| Shaft diameter:                      | 32 mm                   |
| Curve tolerance:                     | ISO9906:2012 3B         |
| Pump version:                        | A2                      |
| <b>Materials:</b>                    |                         |
| Pump housing:                        | Cast iron               |
|                                      | EN-GJL-250              |
|                                      | ASTM A48-40 B           |
| Impeller:                            | Cast iron               |
|                                      | EN-GJL-200              |
|                                      | ASTM A48-30 B           |
| Material code:                       | A                       |
| Rubber:                              | EPDM                    |
| Code for rubber:                     | E                       |
| Wear ring mat.:                      | High alloy              |
|                                      | brass(CuZn34Mn3Al2      |
| <b>Installation:</b>                 |                         |
| Maximum ambient temperature:         | 55 °C                   |
| Maximum operating pressure:          | 16 bar                  |
| Flange standard:                     | EN 1092-2               |
| Connect code:                        | F                       |
| Pump inlet:                          | DN 150                  |
| Pump outlet:                         | DN 125                  |
| Pressure rating:                     | PN 16                   |
| Coupling type:                       | Spacer                  |
| Wear ring(s):                        | neckring(s)             |
| Base frame:                          | C - Channel             |
| <b>Liquid:</b>                       |                         |
| Pumped liquid:                       | Water                   |
| Liquid temperature range:            | 0 .. 120 °C             |
| Liquid temperature during operation: | 20 °C                   |
| Density:                             | 998.2 kg/m³             |
| <b>Electrical data:</b>              |                         |
| Motor type:                          | SIEMENS                 |
| IE Efficiency class:                 | IE3                     |
| Rated power - P2:                    | 1.5 kW                  |
| Mains frequency:                     | 50 Hz                   |
| Rated voltage:                       | 3 x 220-240D/380-420Y V |
| Rated current:                       | 6,60-5,90/3,80-3,40 A   |
| Starting current:                    | 560-560 %               |
| Cos phi - power factor:              | 0,73                    |
| Rated speed:                         | 970 rpm                 |
| Efficiency:                          | IE3 82,5%               |
| Motor efficiency at full load:       | 82.5-82.5 %             |
| Motor efficiency at 3/4 load:        | 83.0-83.0 %             |
| Motor efficiency at 1/2 load:        | 81.4-81.4 %             |
| Number of poles:                     | 6                       |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting         |
| Insulation class (IEC 85):           | F                       |
| Motor protec:                        | NONE                    |
| Motor No:                            | 98957420                |
| Lubricant type:                      | Grease                  |

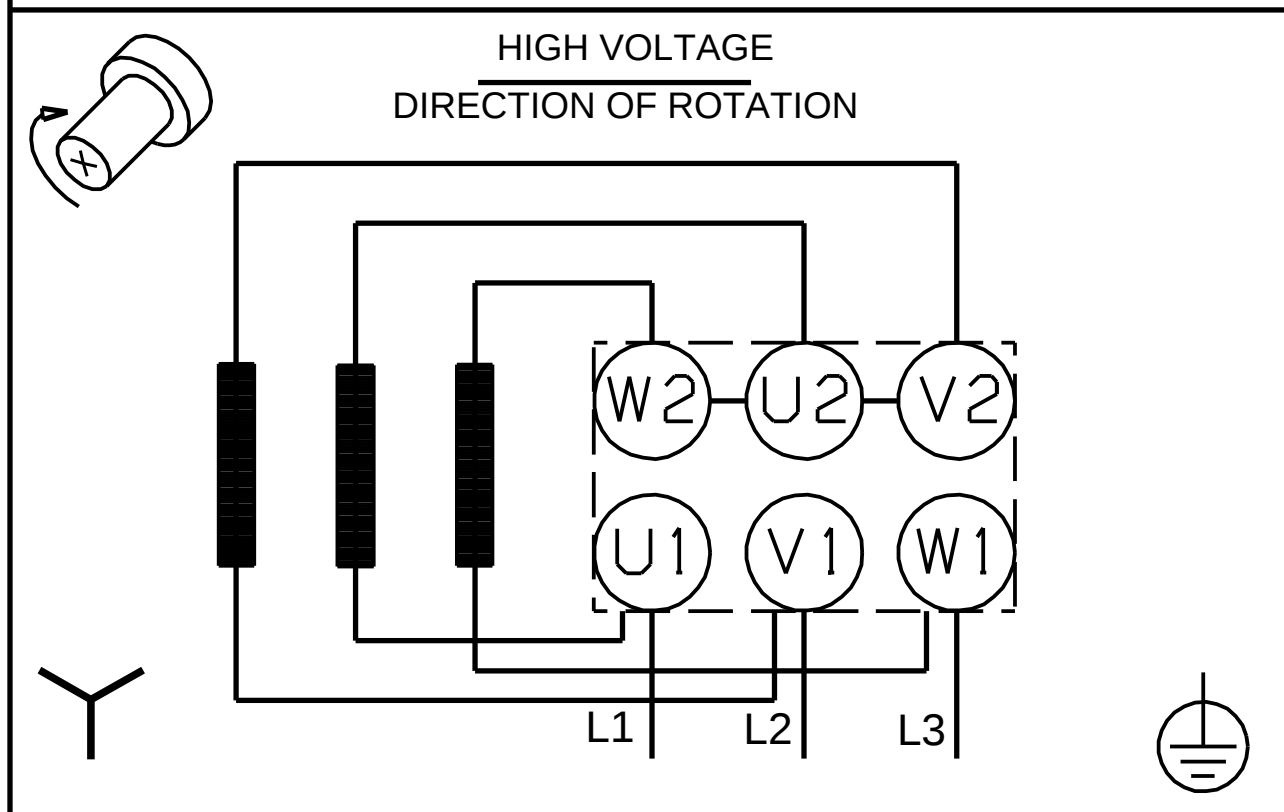
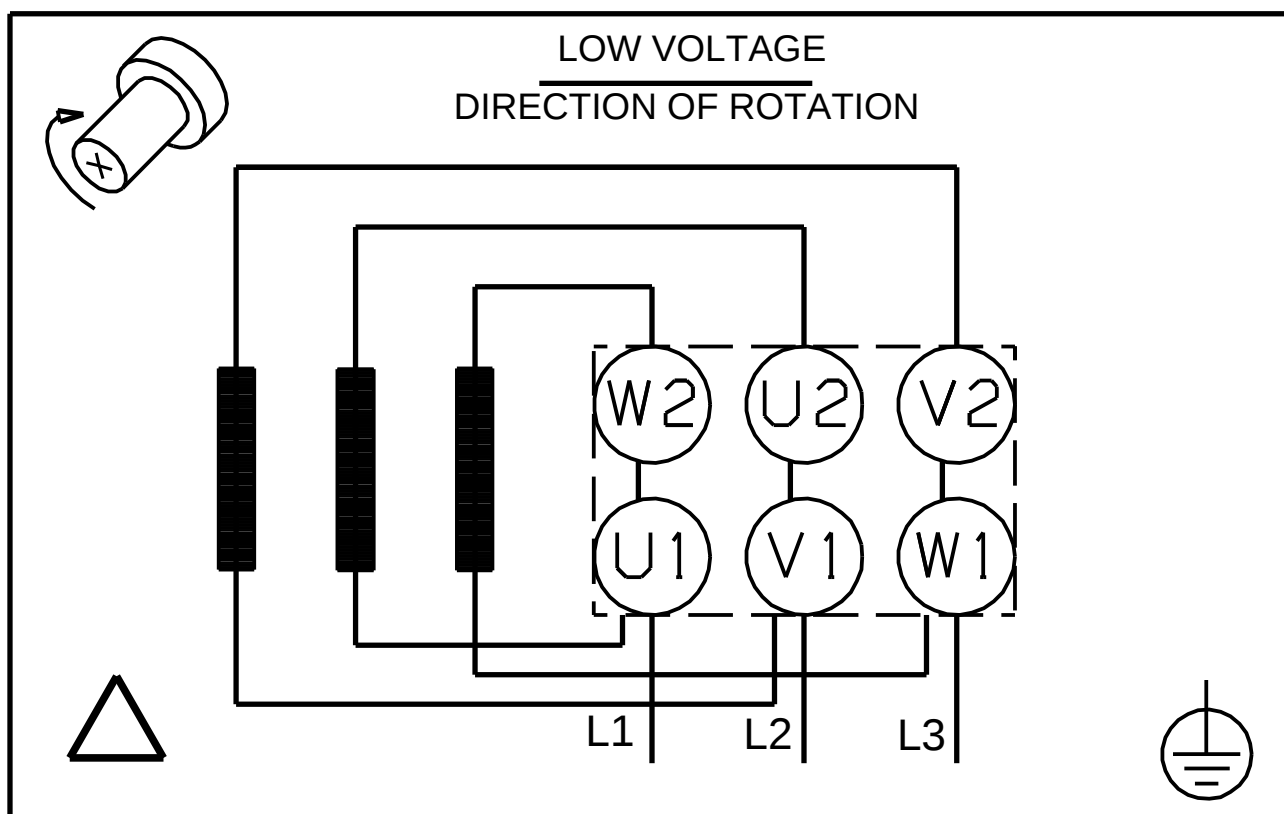


| Description                      | Value                |
|----------------------------------|----------------------|
| <b>Others:</b>                   |                      |
| Minimum efficiency index, MEI ≥: | 0.70                 |
| ErP status:                      | EuP Standalone/Prod. |
| Net weight:                      | 213 kg               |
| Gross weight:                    | 322 kg               |
| Shipping volume:                 | 1.11 m <sup>3</sup>  |

# 98760187 NK 125-200/176-150 EUP 50 Hz



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



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

*Disclaimer: The information about the Grundfos pump in this document may be outdated.  
Data may be subject to alterations without further notice.  
Please contact us to verify the data above is still accurate/up-to-date.*

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[info@lenntech.com](mailto:info@lenntech.com)

[www.lenntech.com](http://www.lenntech.com)

tel. +31-15-261.09.00

fax. +31-15-261.62.89