

Qty. Description

1 NB 40-160/134 AAF2AESBQQEDW3



Note! Product picture may differ from actual product

Product No.: [98987648](#)

Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

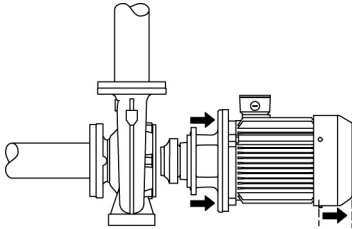
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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

The pump is close-coupled to a fan-cooled asynchronous motor.

The 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.

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



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.

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.

Wear rings used in pump housing and for impeller are made of bronze/brass.

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber.

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: EPDM (ethylene-propylene rubber)

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

The pump housing has feet.

| Qty. | Description |
|------|--|
| 1 | <p data-bbox="201 338 268 365">Motor</p> <p data-bbox="201 371 1394 423">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="201 430 995 456">The motor efficiency is classified as IE2 in accordance with IEC 60034-30.</p> <p data-bbox="201 463 1434 535">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).</p> <p data-bbox="201 607 512 633">Further product details</p> <p data-bbox="201 640 1453 714">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="201 786 400 813">Technical data</p> <p data-bbox="201 853 300 880">Controls:</p> <p data-bbox="201 887 638 913">Frequency converter: NONE</p> <p data-bbox="201 920 584 947">Pressure sensor: N</p> <p data-bbox="201 976 272 1003">Liquid:</p> <p data-bbox="201 1010 632 1037">Pumped liquid: Water</p> <p data-bbox="201 1043 703 1070">Liquid temperature range: -25 .. 120 °C</p> <p data-bbox="201 1077 632 1104">Selected liquid temperature: 20 °C</p> <p data-bbox="201 1111 695 1137">Density: 998.2 kg/m³</p> <p data-bbox="201 1167 312 1193">Technical:</p> <p data-bbox="201 1200 815 1227">Pump speed on which pump data are based: 1400 rpm</p> <p data-bbox="201 1234 679 1261">Rated flow: 15.06 m³/h</p> <p data-bbox="201 1267 655 1294">Rated head: 4.941 m</p> <p data-bbox="201 1301 655 1328">Actual impeller diameter: 134 mm</p> <p data-bbox="201 1335 608 1361">Nominal impeller diameter: 160</p> <p data-bbox="201 1368 632 1395">Shaft seal arrangement: Single</p> <p data-bbox="201 1402 632 1429">Code for shaft seal: BQQE</p> <p data-bbox="201 1435 775 1462">Curve tolerance: ISO9906:2012 3B2</p> <p data-bbox="201 1469 663 1496">Bearing design: Standard</p> <p data-bbox="201 1525 312 1552">Materials:</p> <p data-bbox="201 1559 727 1608">Pump housing: Cast iron EN-GJL-250 ASTM class 35</p> <p data-bbox="201 1615 632 1641">Wear ring: Brass</p> <p data-bbox="201 1648 727 1697">Impeller: Cast iron EN-GJL-200 ASTM class 30</p> <p data-bbox="201 1704 616 1731">Internal pump house coating: CED</p> <p data-bbox="201 1738 727 1832">Shaft: Stainless steel EN 1.4301 AISI 304</p> <p data-bbox="201 1861 328 1888">Installation:</p> <p data-bbox="201 1895 632 1921">t max amb: 40 °C</p> <p data-bbox="201 1928 632 1955">Maximum operating pressure: 16 bar</p> <p data-bbox="201 1962 679 1989">Pipe connection standard: EN 1092-2</p> <p data-bbox="201 1995 632 2022">Size of inlet connection: DN 65</p> <p data-bbox="201 2029 632 2056">Size of outlet connection: DN 40</p> <p data-bbox="201 2063 632 2089">Pressure rating for connection: PN 16</p> <p data-bbox="201 2096 647 2123">Bearing lubrication: Grease</p> |

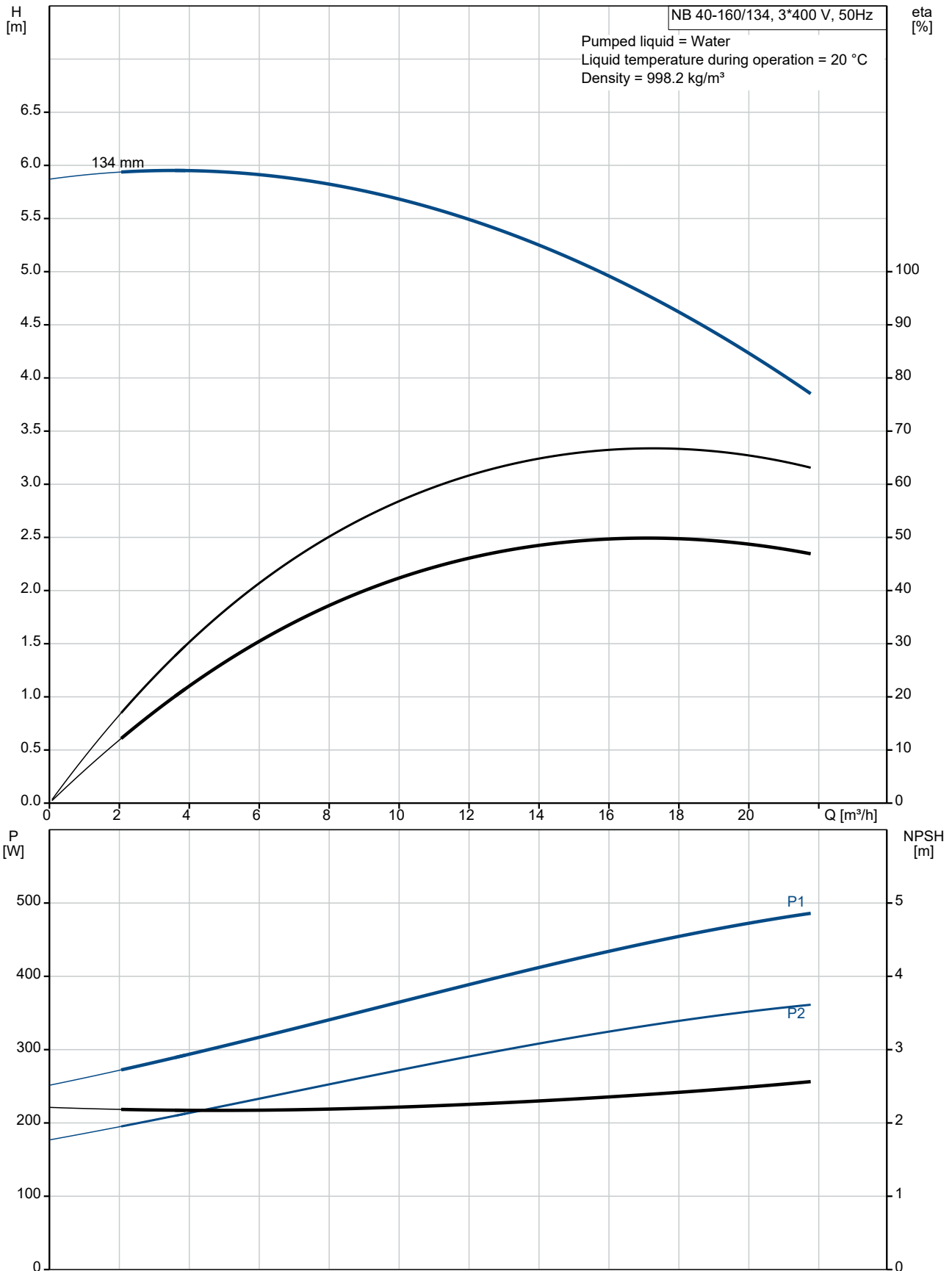
| Qty. | Description |
|------|--|
| 1 | <p>Pump housing with feet: Yes Support block (Yes/No): N</p> <p>Electrical data: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm Efficiency: IE2 72,8% - IE2 73,1% Motor efficiency at full load: 72.8-73.1 % Motor efficiency at 3/4 load: 75.6 % Motor efficiency at 1/2 load: 73.8 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 99957665 Bearing insulation type N-end: STEEL BEARING</p> <p>Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 33 kg Gross weight: 43 kg Shipping volume: 0.134 m³ Danish VVS No.: 386061161 Country of origin: HU Custom tariff no.: 84137051</p> |



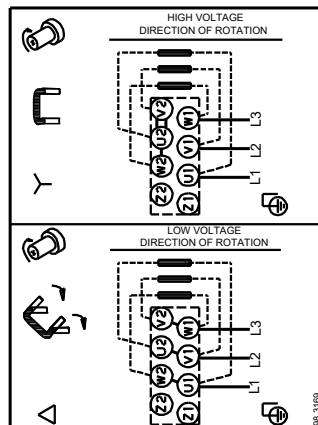
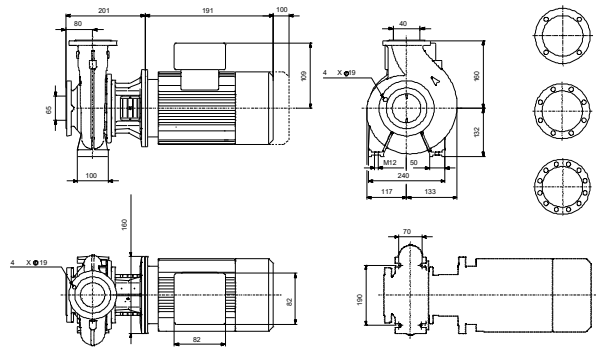
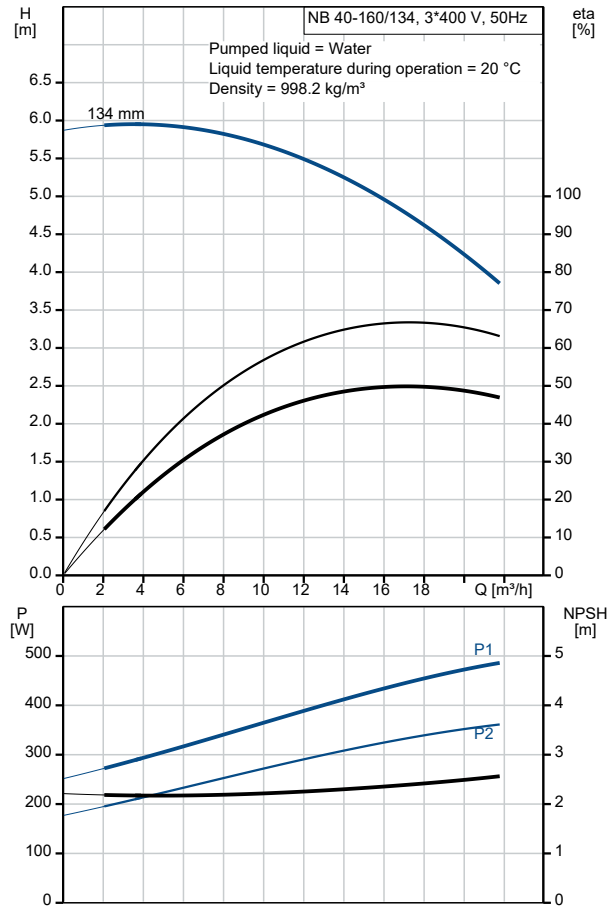
Company name: Pump Sales Direct
Created by:
Phone:

Date: 15/08/2022

98987648 NB 40-160/134 AAF2AESBQQEDW3 50 Hz



| Description | Value |
|--|---------------------------------|
| General information: | |
| Product name: | NB 40-160/134 AAF2AESBQQEDW3 |
| Product No: | 98987648 |
| EAN number: | 5712604746004 |
| Technical: | |
| Pump speed on which pump data are based: | 1400 rpm |
| Rated flow: | 15.06 m ³ /h |
| Rated head: | 4.941 m |
| Actual impeller diameter: | 134 mm |
| Nominal impeller diameter: | 160 |
| Shaft seal arrangement: | Single |
| Shaft diameter: | 24 mm |
| Code for shaft seal: | BQQE |
| Curve tolerance: | ISO9906:2012 3B2 |
| Pump version: | A |
| 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: | 40 °C |
| Maximum operating pressure: | 16 bar |
| Pipe connection standard: | EN 1092-2 |
| Size of inlet connection: | DN 65 |
| Size of outlet connection: | DN 40 |
| 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: | -25 .. 120 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m ³ |
| Electrical data: | |
| Motor type: | 71B |
| IE Efficiency class: | IE2 |
| Rated power - P2: | 0.37 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 220-240D/380-415Y V |
| Rated current: | 1,80-1,83/1,04-1,06 A |
| Starting current: | 390-430 % |
| Cos phi - power factor: | 0.78-0.69 |
| Rated speed: | 1390-1410 rpm |
| Efficiency: | IE2 72,8% - IE2 73,1% |





Company name: Pump Sales Direct

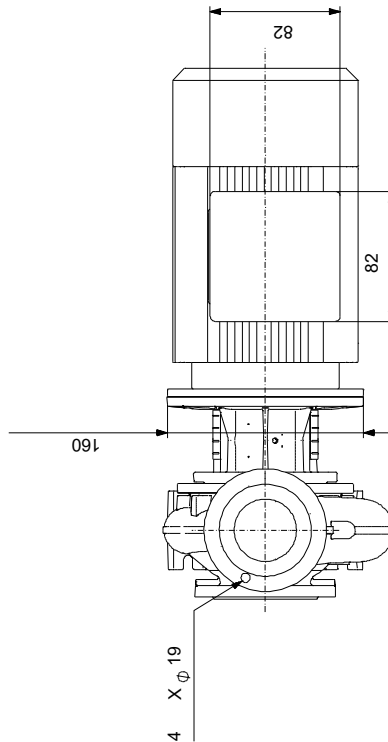
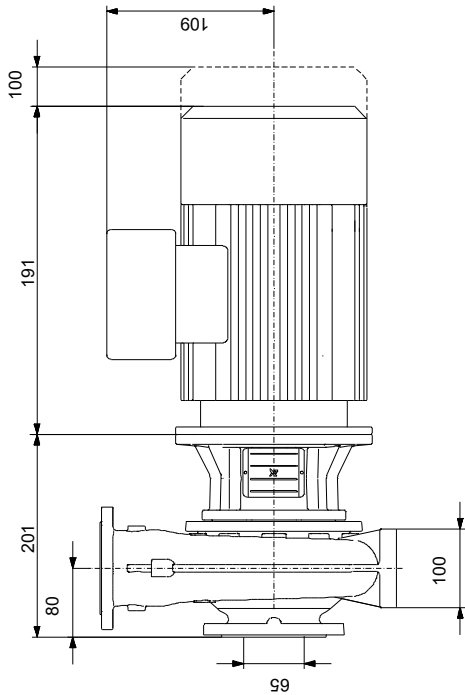
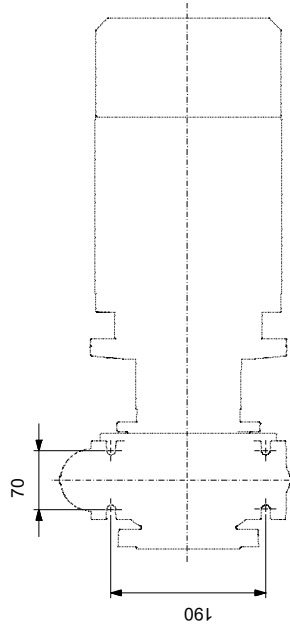
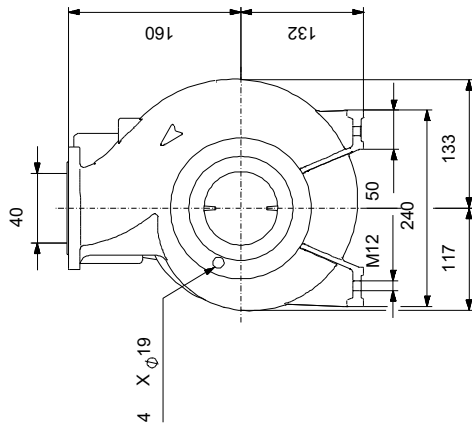
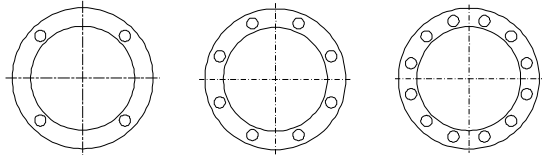
Created by:

Phone:

Date: 15/08/2022

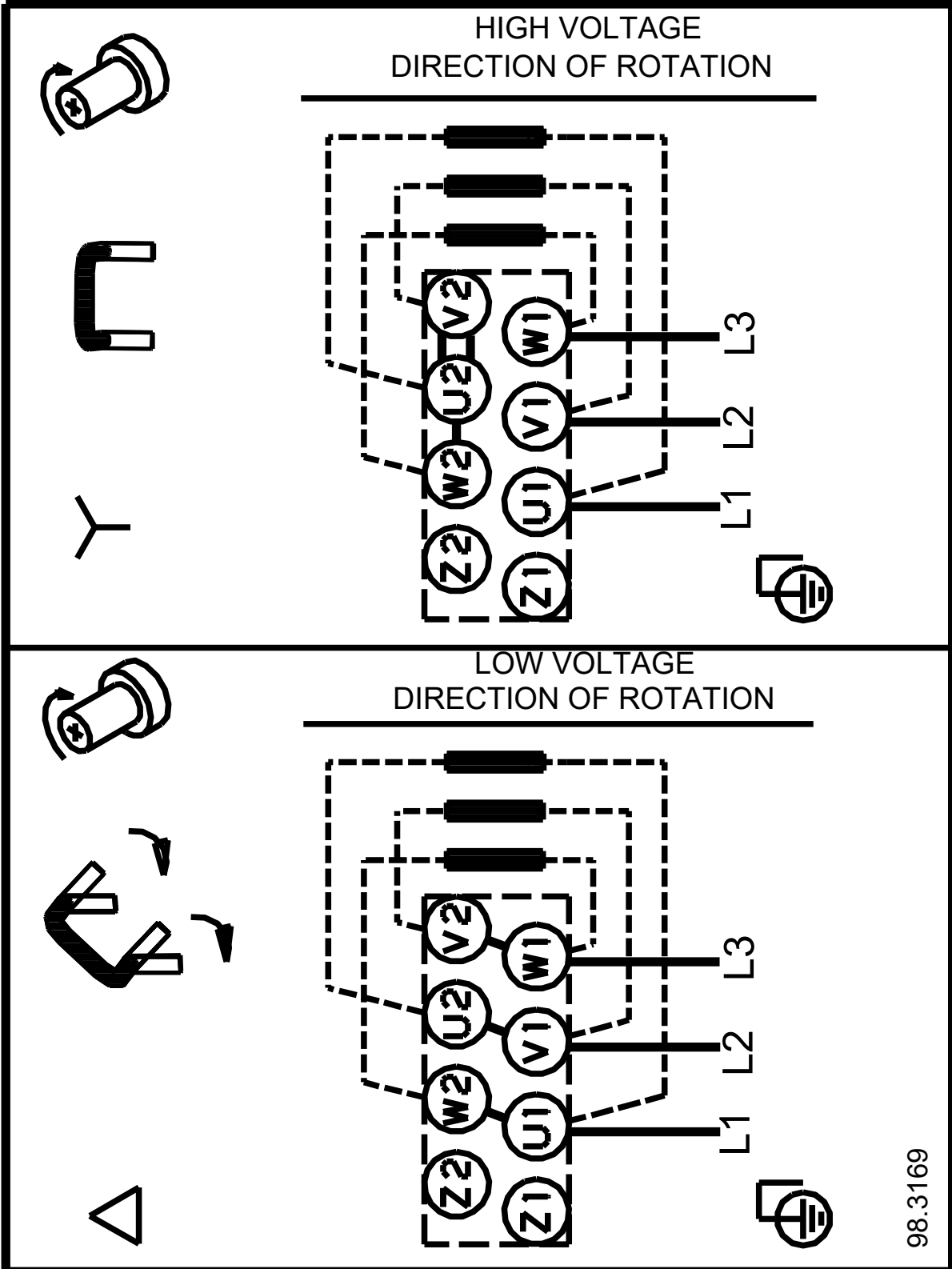
| Description | Value |
|----------------------------------|----------------------|
| Motor efficiency at full load: | 72.8-73.1 % |
| Motor efficiency at 3/4 load: | 75.6 % |
| Motor efficiency at 1/2 load: | 73.8 % |
| Number of poles: | 4 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Built-in motor protection: | NONE |
| Motor No: | 99957665 |
| Mount. design. acc. IEC 34-7: | IM V1/B5 |
| Bearing insulation type N-end: | STEEL BEARING |
| Controls: | |
| Frequency converter: | NONE |
| Pressure sensor: | N |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 33 kg |
| Gross weight: | 43 kg |
| Shipping volume: | 0.134 m ³ |
| Danish VVS No.: | 386061161 |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |

98987648 NB 40-160/134 AAF2AESBQQEDW3 50 Hz



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

98987648 NB 40-160/134 AAF2AESBQQEDW3 50 Hz



98.3169

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

