

## TPD 32-250/2-A-F-A-BQQE 1X230 50HZ

Grundfos Pump 96384226



**Thank you for your interest in our products**

Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/TPD00/96384226/TPD-32-250-2-A-F-A-BQQE.html>

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

tel. +31-15-261.09.00

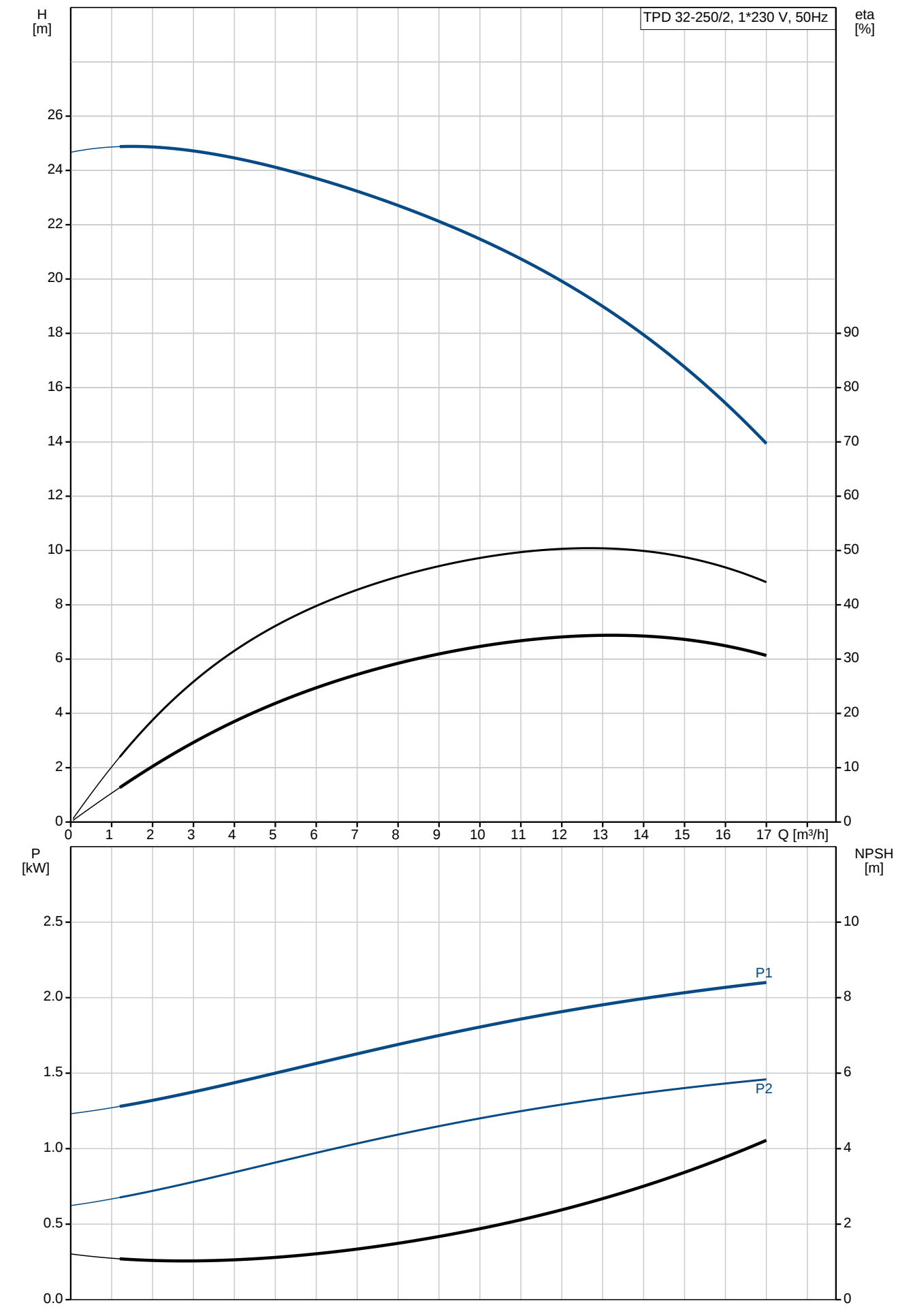
fax. +31-15-261.62.89

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>TPD 32-250/2 A-F-A-BQQE</b></p>  <p>Product No.: <a href="#">96384226</a></p> <p>Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.</p> <p>Each power head is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p>Each power head is fitted with a fan-cooled asynchronous motor of identical size.</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><b>Pump</b></p> <p>Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes:</p> <ol style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Pretreatment with zinc phosphate coating.</li> <li>3) Cathodic electrocoating (epoxy).</li> <li>4) Curing of paint film at 200-250 °C.</li> </ol>  <ol style="list-style-type: none"> <li>1: Pump housing</li> <li>2: Impeller</li> <li>3: Stub shaft</li> <li>4: Pump head/motor stool</li> <li>5: Wear rings</li> </ol> <p>The twin-head pump is designed with two parallel power-heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.</p> <p>The pump housing is provided with a replaceable bronze neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured to the shaft with a nut.</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: Silicon carbide (SiC)</li> <li>- Stationary seat material: Silicon carbide (SiC)</li> </ul> |

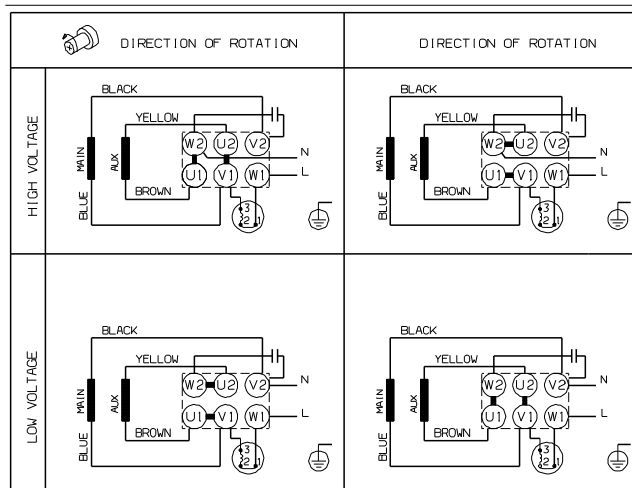
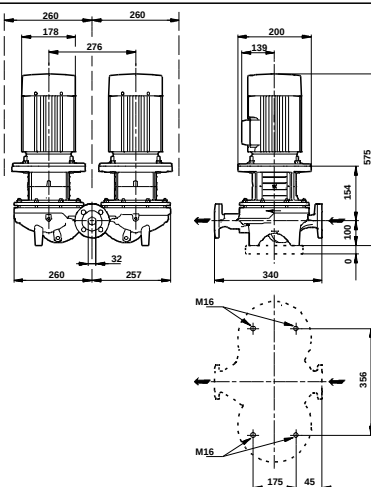
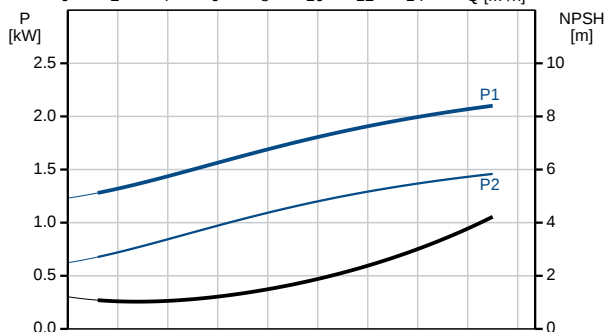
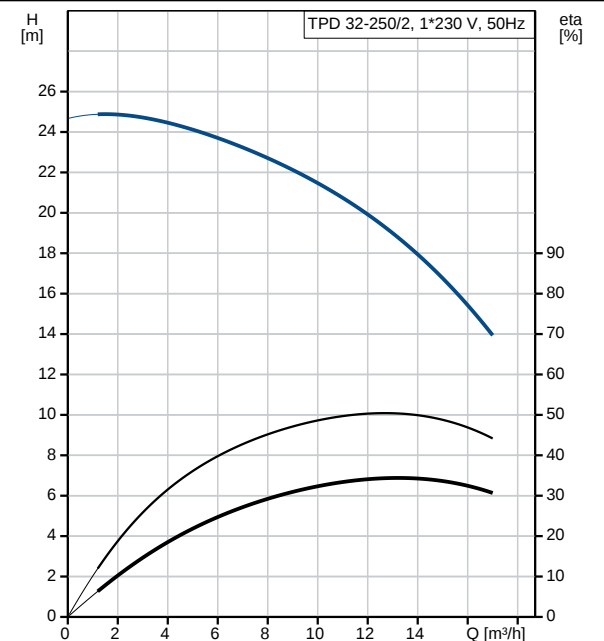
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <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>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p>The pump housing has four Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.</p>  <p>The flanges have tappings for mounting of pressure gauges.</p> <p>The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.</p> <p>The central part of the motor stool is provided with guards for protection against the shaft and coupling. The pump stub shaft is fastened directly on the motor shaft with key and set screws.</p> <p><b>Motor</b></p> <p>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>The motor is flange-mounted with free-hole flange (FF).</p> <p>Motor mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).</p> <p>The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.</p> <p><b>Technical data</b></p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -25 .. 120 °C</p> <p>Liquid temperature during operation: 20 °C</p> <p>Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b></p> <p>Speed for pump data: 2900 rpm</p> <p>Rated flow: 12.7 m<sup>3</sup>/h</p> <p>Rated head: 19.3 m</p> <p>Actual impeller diameter: 140 mm</p> <p>Primary shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron<br/>EN-JL1040<br/>ASTM A48-40 B</p> <p>Impeller: Cast iron<br/>EN-JL1030<br/>ASTM A48-30 B</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: -30 .. 40 °C</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Maximum operating pressure: 16 bar</p> <p>Flange standard: DIN</p> <p>Pipe connection: DN 32</p> <p>Pump inlet: DN 32</p> <p>Pump outlet: DN 32</p> <p>Pressure rating: PN 16</p> <p>Port-to-port length: 340 mm</p> <p>Flange size for motor: FF165</p> <p><b>Electrical data:</b></p> <p>Motor type: 90LB</p> <p>Rated power - P2: 2 x 1.5 kW</p> <p>Power (P2) required by pump: 1.5 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 1 x 220-230/240 V</p> <p>Rated current: 9,90/8,90 A</p> <p>Starting current: 390 %</p> <p>Cos phi - power factor: 0,98/0,99</p> <p>Rated speed: 2750/2740 rpm</p> <p>Motor efficiency at full load: 72-70 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>ErP status: EuP Standalone/Prod.</p> <p>Net weight: 97 kg</p> <p>Gross weight: 111 kg</p> <p>Shipping volume: 0.39 m<sup>3</sup></p> |

96384226 TPD 32-250/2 50 Hz



| Description                          | Value                                   |
|--------------------------------------|-----------------------------------------|
| <b>General information:</b>          |                                         |
| Product name:                        | TPD 32-250/2 A-F-A-BQQE                 |
| Product No:                          | 96384226                                |
| EAN number:                          | 5700832152391                           |
| <b>Technical:</b>                    |                                         |
| Speed for pump data:                 | 2900 rpm                                |
| Rated flow:                          | 12.7 m³/h                               |
| Rated head:                          | 19.3 m                                  |
| Head max:                            | 250 dm                                  |
| Actual impeller diameter:            | 140 mm                                  |
| Primary shaft seal:                  | BQQE                                    |
| Curve tolerance:                     | ISO9906:2012 3B                         |
| Pump version:                        | A                                       |
| Model:                               | A                                       |
| <b>Materials:</b>                    |                                         |
| Pump housing:                        | Cast iron<br>EN-JL1040<br>ASTM A48-40 B |
| Impeller:                            | Cast iron<br>EN-JL1030<br>ASTM A48-30 B |
| Material code:                       | A                                       |
| <b>Installation:</b>                 |                                         |
| Range of ambient temperature:        | -30 .. 40 °C                            |
| Maximum operating pressure:          | 16 bar                                  |
| Flange standard:                     | DIN                                     |
| Connect code:                        | F                                       |
| Pipe connection:                     | DN 32                                   |
| Pump inlet:                          | DN 32                                   |
| Pump outlet:                         | DN 32                                   |
| Pressure rating:                     | PN 16                                   |
| Port-to-port length:                 | 340 mm                                  |
| Flange size for motor:               | FF165                                   |
| <b>Liquid:</b>                       |                                         |
| Pumped liquid:                       | Water                                   |
| Liquid temperature range:            | -25 .. 120 °C                           |
| Liquid temperature during operation: | 20 °C                                   |
| Density:                             | 998.2 kg/m³                             |
| <b>Electrical data:</b>              |                                         |
| Motor type:                          | 90LB                                    |
| Rated power - P2:                    | 2 x 1.5 kW                              |
| Power (P2) required by pump:         | 1.5 kW                                  |
| Mains frequency:                     | 50 Hz                                   |
| Rated voltage:                       | 1 x 220-230/240 V                       |
| Rated current:                       | 9,90/8,90 A                             |
| Starting current:                    | 390 %                                   |
| Cos phi - power factor:              | 0,98/0,99                               |
| Rated speed:                         | 2750/2740 rpm                           |
| Motor efficiency at full load:       | 72-70 %                                 |
| Number of poles:                     | 2                                       |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting                         |
| Insulation class (IEC 85):           | F                                       |
| Motor protec:                        | PTO                                     |
| Motor No:                            | 87204305                                |
| <b>Others:</b>                       |                                         |
| Minimum efficiency index, MEI ≥:     | 0.70                                    |
| ErP status:                          | EuP Standalone/Prod.                    |
| Net weight:                          | 97 kg                                   |
| Gross weight:                        | 111 kg                                  |
| Shipping volume:                     | 0.39 m³                                 |

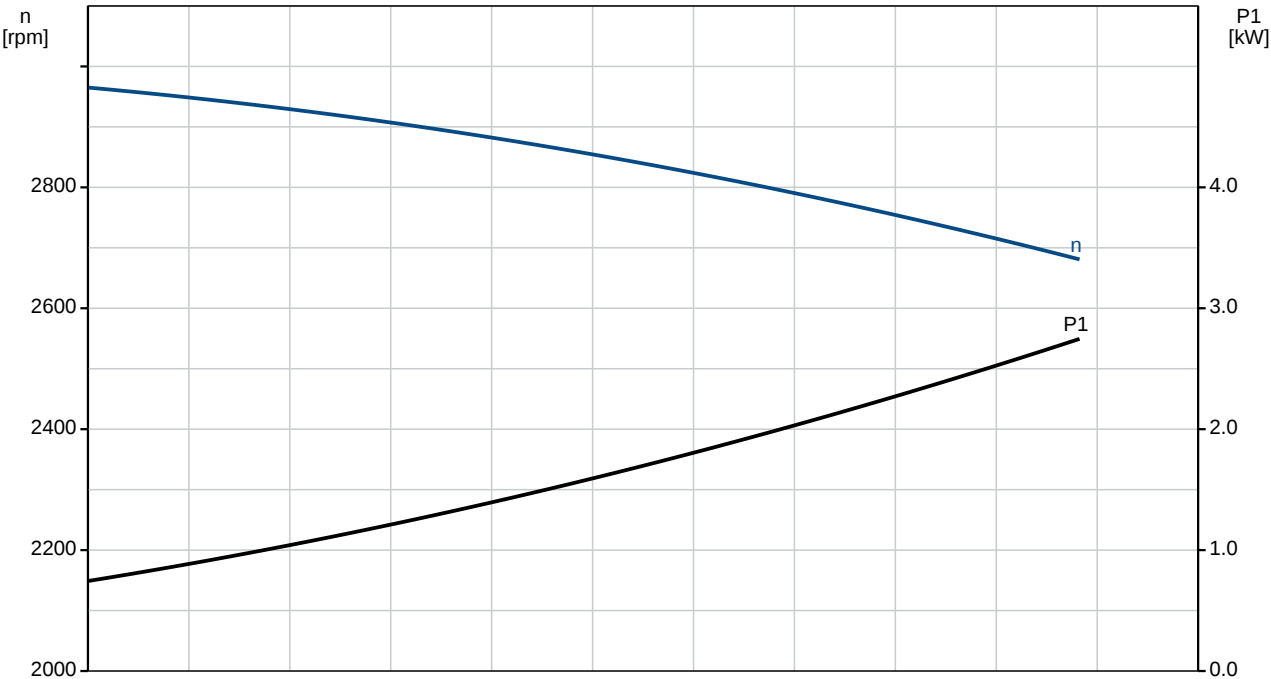
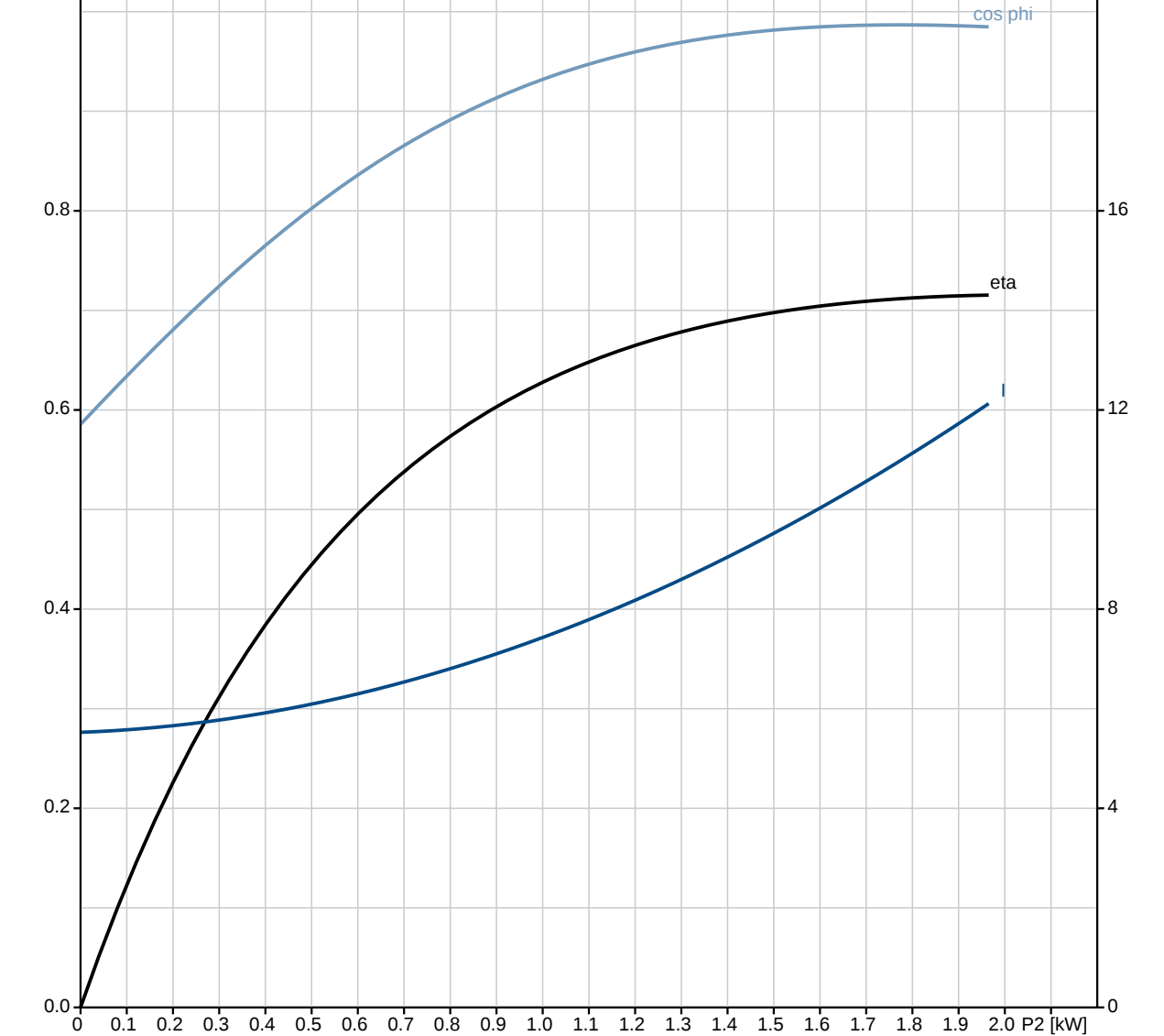


# 96384226 TPD 32-250/2 50 Hz

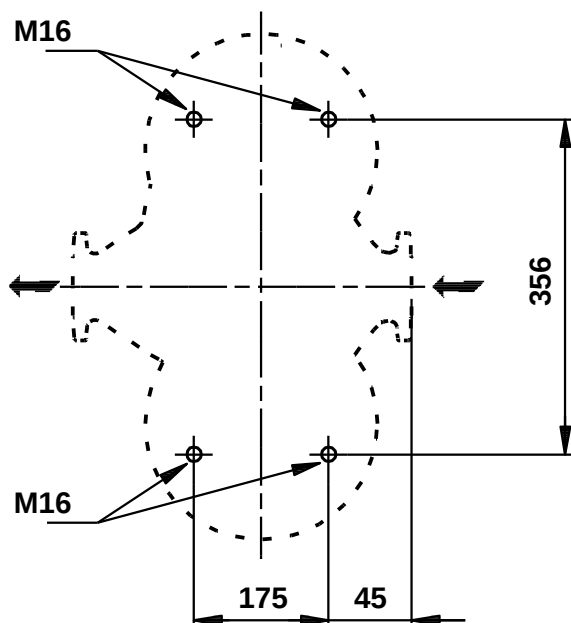
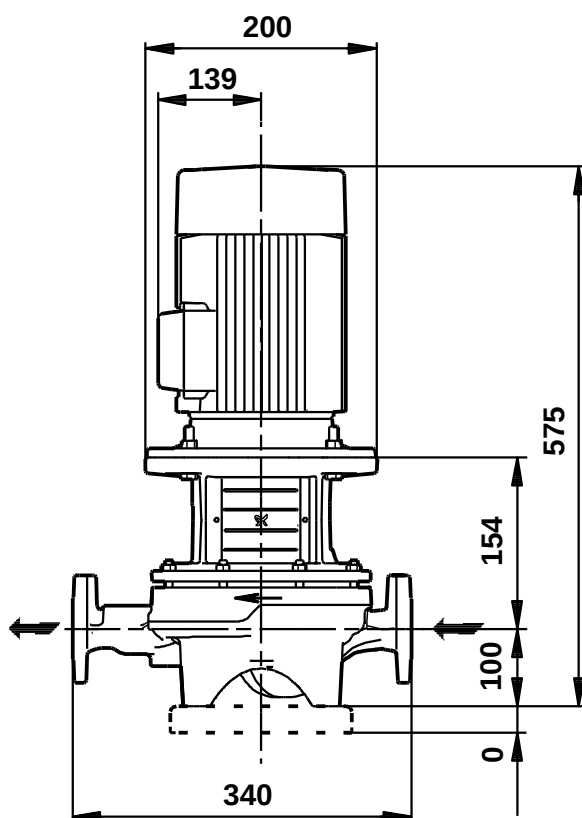
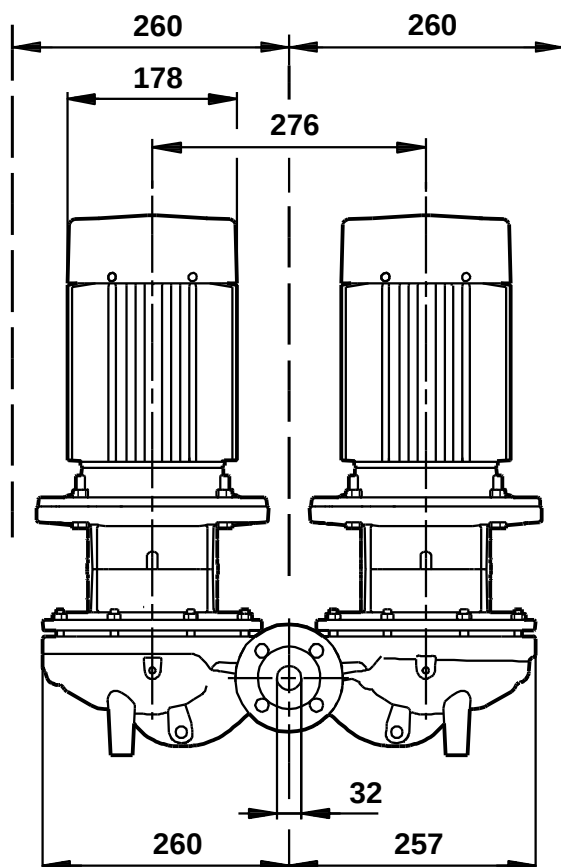
cos phi  
eta

TPD32-250/2 + 90LB 1.5 kW 1\*230 V, 50 Hz

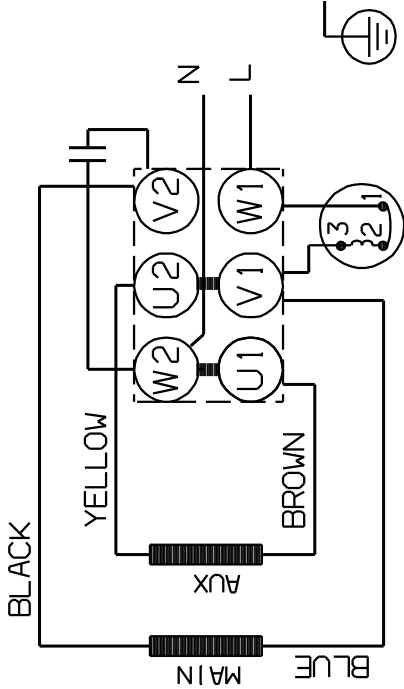
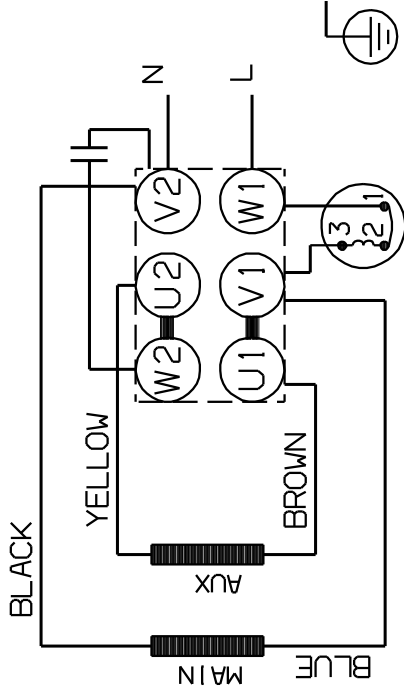
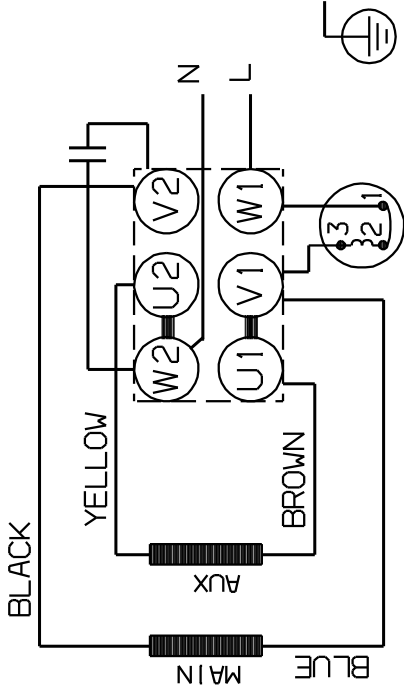
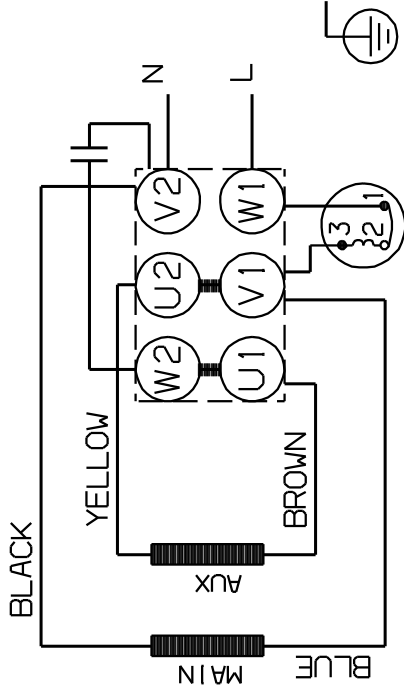
I  
[A]



# 96384226 TPD 32-250/2 50 Hz



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

| DIRECTION OF ROTATION                                                               |              | DIRECTION OF ROTATION                                                               |                                                                                      |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | HIGH VOLTAGE |  |  |
|                                                                                     | LOW VOLTAGE  |    |    |

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.*

*All information is copyright Grundfos.*



[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