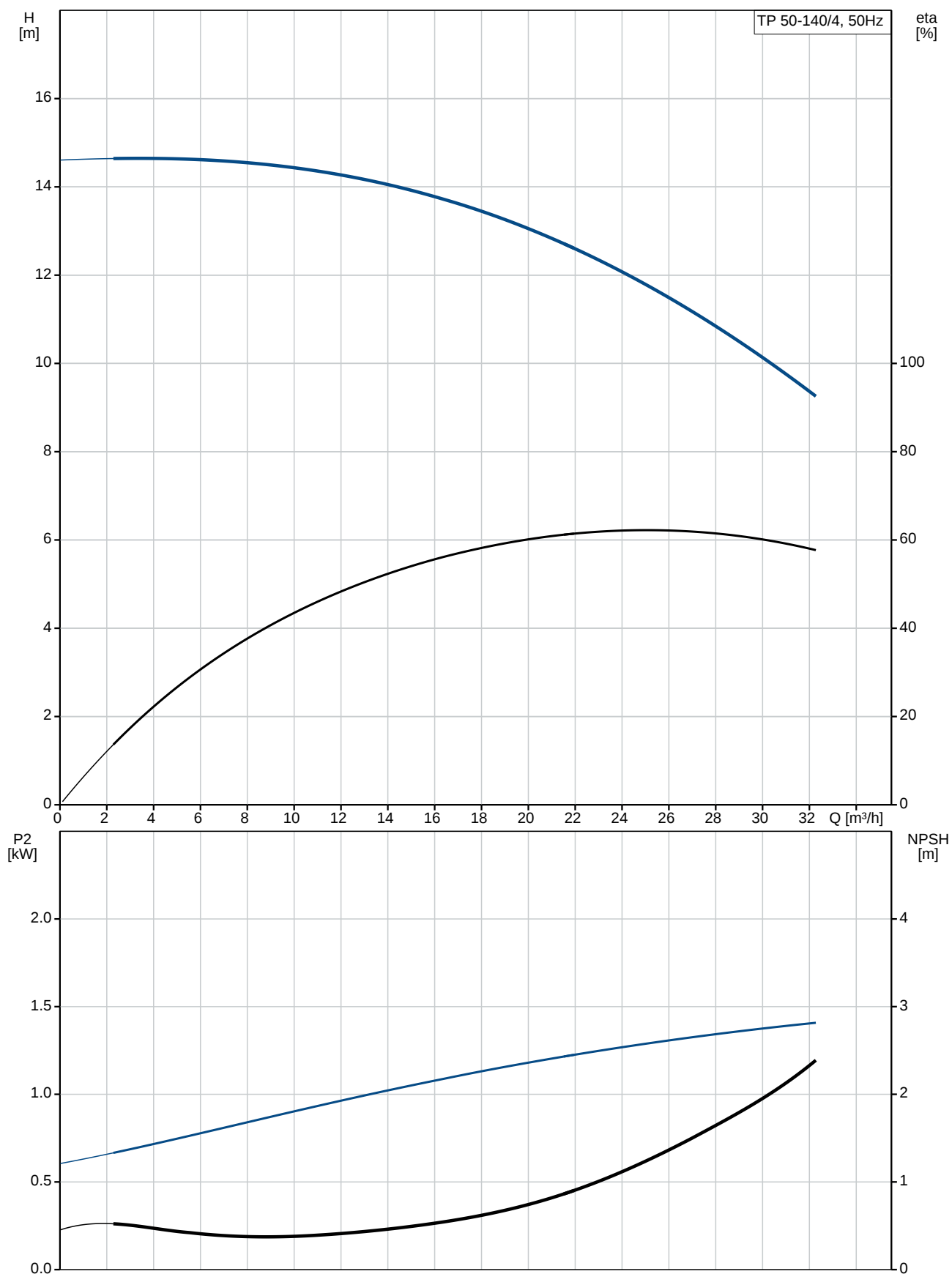


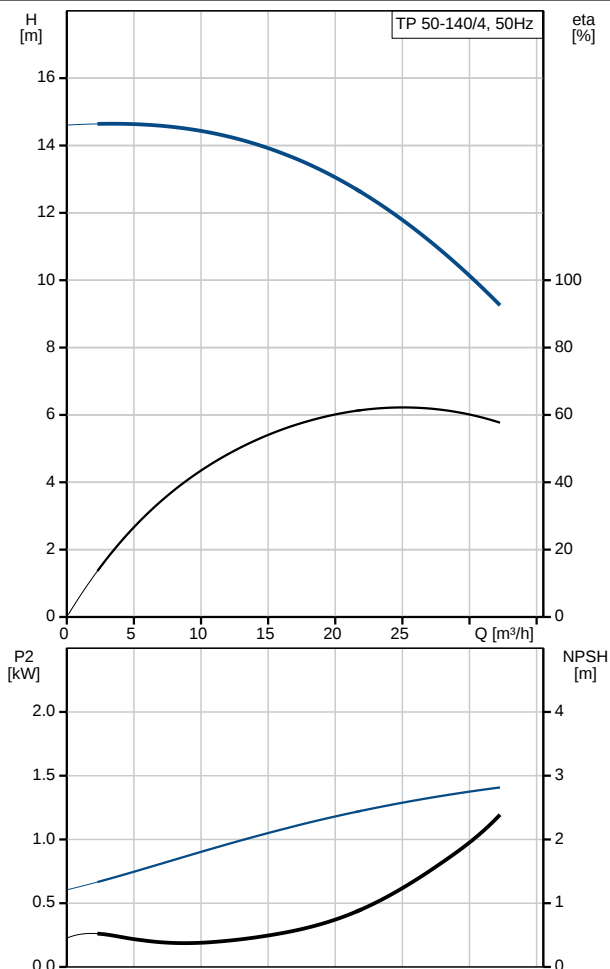
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>TP 50-140/4 A-F-A-BQQE</b></p>  <p>Product No.: <a href="#">98760123</a></p> <p>Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. 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>The pump 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>The pump is fitted with a fan-cooled asynchronous motor.</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: 1450 rpm</p> <p>Rated flow: 25.3 m<sup>3</sup>/h</p> <p>Rated head: 12.16 m</p> <p>Actual impeller diameter: 215 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> <p>Maximum operating pressure: 16 bar</p> <p>Flange standard: DIN</p> <p>Pipe connection: DN 50</p> <p>Pump inlet: DN 50</p> <p>Pump outlet: DN 50</p> <p>Pressure stage: PN 16</p> <p>Port-to-port length: 440 mm</p> <p>Flange size for motor: FF165</p> <p><b>Electrical data:</b></p> <p>Motor type: 90LC</p> <p>IE Efficiency class: NA</p> <p>Rated power - P2: 1.5 kW</p> <p>Power (P2) required by pump: 1.5 kW</p> <p>Mains frequency: 50 Hz</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Rated voltage: 1 x 220-230 V</p> <p>Rated current: 9.9 A</p> <p>Starting current: 400 %</p> <p>Cos phi - power factor: 0,97</p> <p>Rated speed: 1390-1400 rpm</p> <p>Motor efficiency at full load: 74-73 %</p> <p>Number of poles: 4</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 <math>\geq</math>: 0.7</p> <p>ErP status: EuP Standalone/Prod.</p> <p>Net weight: 71 kg</p> <p>Gross weight: 85 kg</p> <p>Shipping volume: 0.39 m<sup>3</sup></p> |

## 98760123 TP 50-140/4 50 Hz



| Description                          | Value                                   |
|--------------------------------------|-----------------------------------------|
| <b>General information:</b>          |                                         |
| Product name:                        | TP 50-140/4 A-F-A-BQQE                  |
| Product No:                          | 98760123                                |
| EAN number:                          | 5712600991088                           |
| <b>Technical:</b>                    |                                         |
| Speed for pump data:                 | 1450 rpm                                |
| Rated flow:                          | 25.3 m³/h                               |
| Rated head:                          | 12.16 m                                 |
| Head max:                            | 140 dm                                  |
| Actual impeller diameter:            | 215 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 50                                   |
| Pump inlet:                          | DN 50                                   |
| Pump outlet:                         | DN 50                                   |
| Pressure stage:                      | PN 16                                   |
| Port-to-port length:                 | 440 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:                          | 90LC                                    |
| IE Efficiency class:                 | NA                                      |
| Rated power - P2:                    | 1.5 kW                                  |
| Power (P2) required by pump:         | 1.5 kW                                  |
| Mains frequency:                     | 50 Hz                                   |
| Rated voltage:                       | 1 x 220-230 V                           |
| Rated current:                       | 9.9 A                                   |
| Starting current:                    | 400 %                                   |
| Cos phi - power factor:              | 0.97                                    |
| Rated speed:                         | 1390-1400 rpm                           |
| Motor efficiency at full load:       | 74-73 %                                 |
| Number of poles:                     | 4                                       |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting                         |
| Insulation class (IEC 85):           | F                                       |
| Motor protec:                        | PTO                                     |





Company name:

Created by:

Phone:

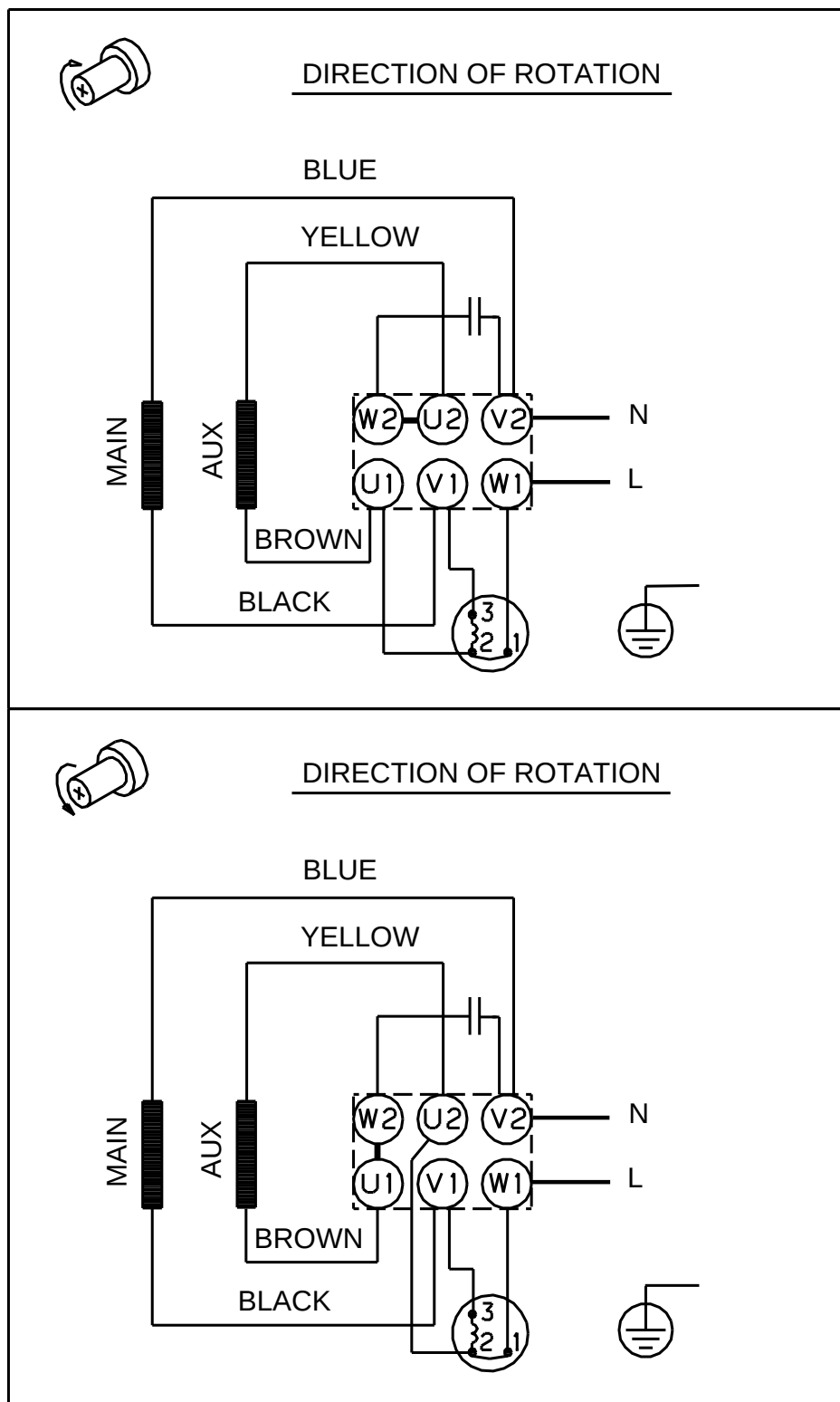
Date:

30/08/2017

| Description                            | Value                |
|----------------------------------------|----------------------|
| Motor No:                              | 87200344             |
| <b>Others:</b>                         |                      |
| Minimum efficiency index, MEI $\geq$ : | 0.7                  |
| ErP status:                            | EuP Standalone/Prod. |
| Net weight:                            | 71 kg                |
| Gross weight:                          | 85 kg                |
| Shipping volume:                       | 0.39 m <sup>3</sup>  |



## 98760123 TP 50-140/4 50 Hz



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