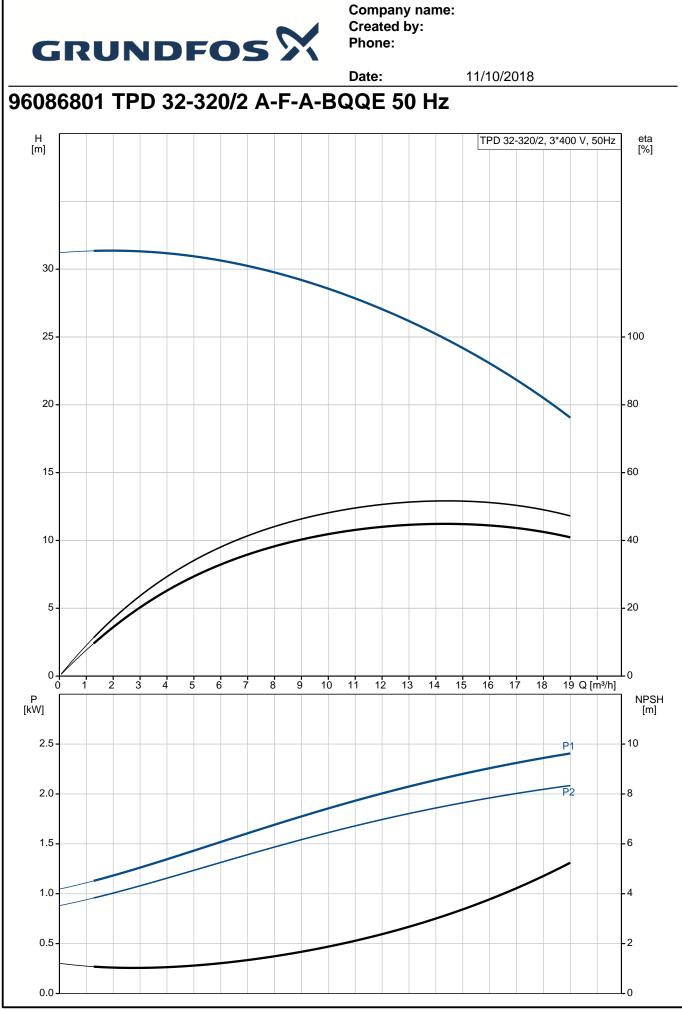
| G        |      | UNDFOS   | Crosted by   | Company name:<br>Created by:<br>Phone: |  |  |
|----------|------|--|--|--|--|--|
|          |      |  | Date:  | 11/10/2018                             |  |  |
| Position | Qty. | Description  |  |  |  |  |
|          | 1    | TPD 32-320/2 A-F-A-BQQE  |  |  |  |  |
|          |      | Product No.: 96086801  |  |  |  |  |
|          |      | 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. |  |  |  |  |
|          |      | 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). Each power head is fitted with a fan-cooled asynchronous motor of indentical size.   |  |  |  |  |
|          |      | Liquid:<br>Pumped liquid:<br>Liquid temperature range:<br>Liquid temperature during opera<br>Density:  | Water<br>-25 120 °C<br>tion: 20 °C<br>998.2 kg/m³                                  |  |  |  |
|          |      | Technical:<br>Rated flow:<br>Rated head:<br>Actual impeller diameter:<br>Primary shaft seal:<br>Curve tolerance:   | 17 m³/h<br>21.8 m<br>155 mm<br>BQQE<br>ISO9906:2012 3B                             |  |  |  |
|          |      | <b>Materials:</b><br>Pump housing:<br>Impeller:  | Cast iron<br>EN-JL1040<br>ASTM A48-40 B<br>Cast iron<br>EN-JL1030<br>ASTM A48-30 B |  |  |  |
|          |      | Installation:<br>Range of ambient temperature:<br>Maximum operating pressure:<br>Flange standard:<br>Pipe connection:<br>Pump inlet:<br>Pump outlet:<br>Pressure rating:<br>(@):<br>Flange size for motor:   |  |  |  |  |
|          |      | Electrical data:<br>Motor type:<br>IE Efficiency class:<br>Rated power - P2:<br>Power (P2) required by pump:<br>Mains frequency:   | 90LC<br>IE3<br>2 x 2.2 kW<br>2.2 kW<br>50 Hz                                       |  |  |  |



|          |      |  | Date:   | 11/10/2018 |
|----------|------|--|---|------------|
| Position | Qty. | Description  |   |            |
|          |      | Rated voltage:<br>Rated current:<br>Starting current:<br>Cos phi - power factor:<br>Rated speed:<br>Efficiency:<br>Motor efficiency at full load:<br>Motor efficiency at 3/4 load:<br>Motor efficiency at 1/2 load:<br>Number of poles:<br>Enclosure class (IEC 34-5):<br>Insulation class (IEC 85): | 3 x 380-415D V<br>4.45 A<br>850-950 %<br>0.89-0.87<br>2890-2910 rpm<br>IE3 85,9%<br>85.9 %<br>86.8 %<br>86.0 %<br>2<br>55 Dust/Jetting<br>F |            |
|          |      | Others:<br>Minimum efficiency index, MEI<br>ErP status:<br>Net weight:<br>Gross weight:<br>Shipping volume:<br>Country of origin:<br>Custom tariff no.:  | : 0.70<br>EuP Standalone/Prod.<br>104 kg<br>118 kg<br>0.39 m <sup>3</sup><br>HU<br>84137065   |            |
|          |      |  |   |            |
|          |      |  |   |            |
|          |      |  |   |            |
|          |      |  |   |            |
|          |      |  |   |            |
|          |      |  |   |            |





|                                      |                         | Date:      | 11/10/2018                         |  |
|--------------------------------------|-------------------------|------------|------------------------------------|--|
| Description                          | Value                   | H<br>[m]   | TPD 32-320/2, 3*400 V, 50          |  |
| General information:                 |                         |            |                                    |  |
| Product name:                        | TPD 32-320/2 A-F-A-BQQE | -          |                                    |  |
| Product No:                          | 96086801                |            |                                    |  |
| EAN number:                          | 5700395307573           | 30 -       |                                    |  |
| Price:                               | 3.039,00 GBP            |            |                                    |  |
| Technical:                           | 0.000,00 001            | -          |                                    |  |
| Rated flow:                          | 17 m³/h                 | 25 -       |                                    |  |
| Rated head:                          | 21.8 m                  | -          |                                    |  |
| Head max:                            | 320 dm                  | -          |                                    |  |
| Actual impeller diameter:            | 155 mm                  | 20 -       |                                    |  |
| Primary shaft seal:                  | BQQE                    | -          |                                    |  |
| -                                    |                         | 15 -       |                                    |  |
| Curve tolerance:                     | ISO9906:2012 3B         | _          |                                    |  |
| Pump version:                        | A                       | _          |                                    |  |
| Model:                               | Α                       | 10 -       |                                    |  |
| Materials:                           | •                       |            |                                    |  |
| Pump housing:                        | Cast iron               |            |                                    |  |
|                                      | EN-JL1040               | 5-         |                                    |  |
|                                      | ASTM A48-40 B           |            |                                    |  |
| Impeller:                            | Cast iron               | o 🖌 🚬      |                                    |  |
|                                      | EN-JL1030               | 0 2 4<br>P | 4 6 8 10 12 14 16 Q[m <sup>3</sup> |  |
|                                      | ASTM A48-30 B           | [kW]       |                                    |  |
| Material code:                       | Α                       | 2.5 -      | P1                                 |  |
| Installation:                        |                         | -          |                                    |  |
| Range of ambient temperature:        | -30 60 °C               | 2.0 -      | P2                                 |  |
| Maximum operating pressure:          | 16 bar                  | -          |                                    |  |
| Flange standard:                     | DIN                     | 1.5        |                                    |  |
| Pipe connection:                     | DN 32                   | 1.0        |                                    |  |
| Pump inlet:                          | DN 32                   | 1.0        |                                    |  |
| Pump outlet:                         | DN 32                   | 0.5 -      |                                    |  |
| Pressure rating:                     | PN 16                   |            |                                    |  |
| (@)                                  | 340 mm                  | 0.0        |                                    |  |
| Flange size for motor:               | FF165                   |            |                                    |  |
| Connect code:                        | F                       |            |                                    |  |
| Liquid:                              | •                       |            |                                    |  |
| Pumped liquid:                       | Water                   |            |                                    |  |
|                                      | -25 120 °C              |            |                                    |  |
| Liquid temperature range:            |                         |            |                                    |  |
| Liquid temperature during operation: |                         |            |                                    |  |
| Density:                             | 998.2 kg/m³             |            |                                    |  |
| Electrical data:                     | 001.0                   |            |                                    |  |
| Motor type:                          | 90LC                    |            |                                    |  |
| IE Efficiency class:                 | IE3                     |            |                                    |  |
| Rated power - P2:                    | 2 x 2.2 kW              |            |                                    |  |
| Power (P2) required by pump:         | 2.2 kW                  |            |                                    |  |
| Mains frequency:                     | 50 Hz                   |            |                                    |  |
| Rated voltage:                       | 3 x 380-415D V          |            |                                    |  |
| Rated current:                       | 4.45 A                  |            |                                    |  |
| Starting current:                    | 850-950 %               |            |                                    |  |
| Cos phi - power factor:              | 0.89-0.87               |            |                                    |  |
| Rated speed:                         | 2890-2910 rpm           |            |                                    |  |
| Efficiency:                          | IE3 85,9%               |            |                                    |  |
| Motor efficiency at full load:       | 85.9 %                  |            |                                    |  |
| Motor efficiency at 3/4 load:        | 86.8 %                  |            |                                    |  |
| Motor efficiency at 1/2 load:        | 86.0 %                  |            |                                    |  |
| Number of poles:                     | 2                       |            |                                    |  |
|                                      |                         |            |                                    |  |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting         |            |                                    |  |
| Insulation class (IEC 85):           | F                       |            |                                    |  |
| Motor protec:                        | NONE                    |            |                                    |  |
| Motor No:                            | 87220294                |            |                                    |  |

eta [%]

100

- 80

- 60

40

- 20

0

10

- 8

- 6

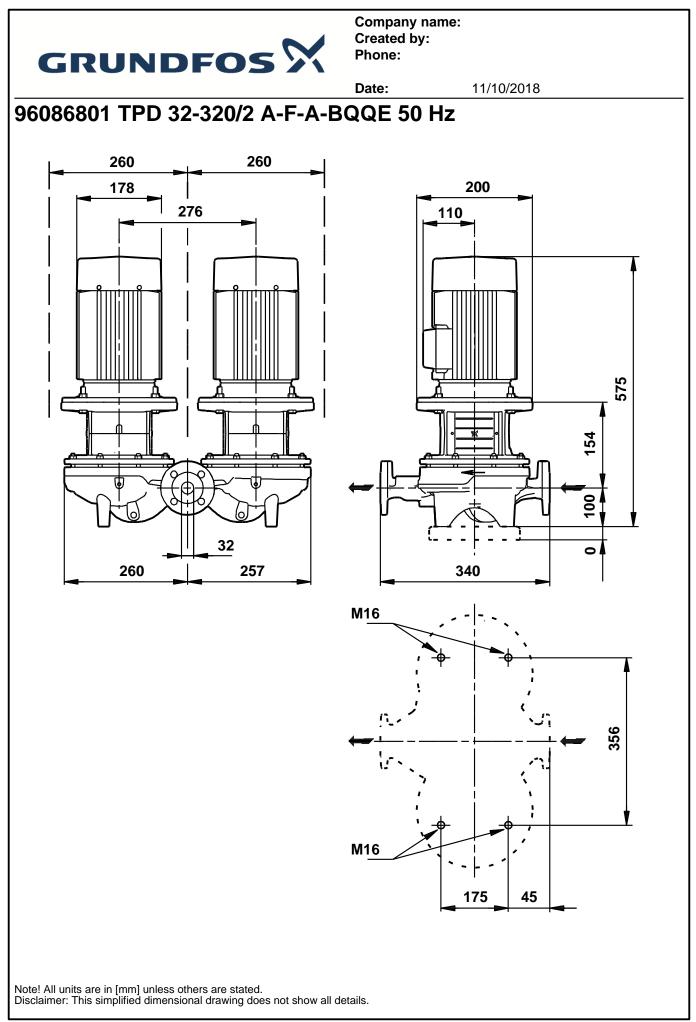
- 4

-2 -0

NPSH [m]



|                                 |                      | Date: | 11/10/2018 |
|---------------------------------|----------------------|-------|------------|
| Description                     | Value                |       |            |
| Others:                         |                      |       |            |
| Minimum efficiency index, MEI : | 0.70                 |       |            |
| ErP status:                     | EuP Standalone/Prod. |       |            |
| Net weight:                     | 104 kg               |       |            |
| Gross weight:                   | 118 kg               |       |            |
| Shipping volume:                | 0.39 m³              |       |            |
| Country of origin:              | HU                   |       |            |
| Custom tariff no .:             | 84137065             |       |            |





11/10/2018

## 96086801 TPD 32-320/2 A-F-A-BQQE 50 Hz

