



water solutions

# Data sheet

## DGF 75/2/G50H A1CT5

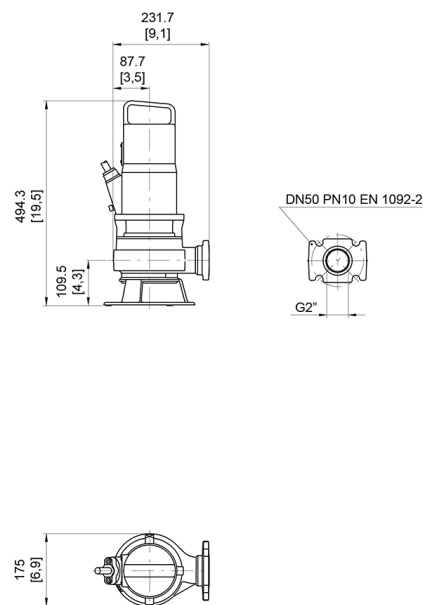
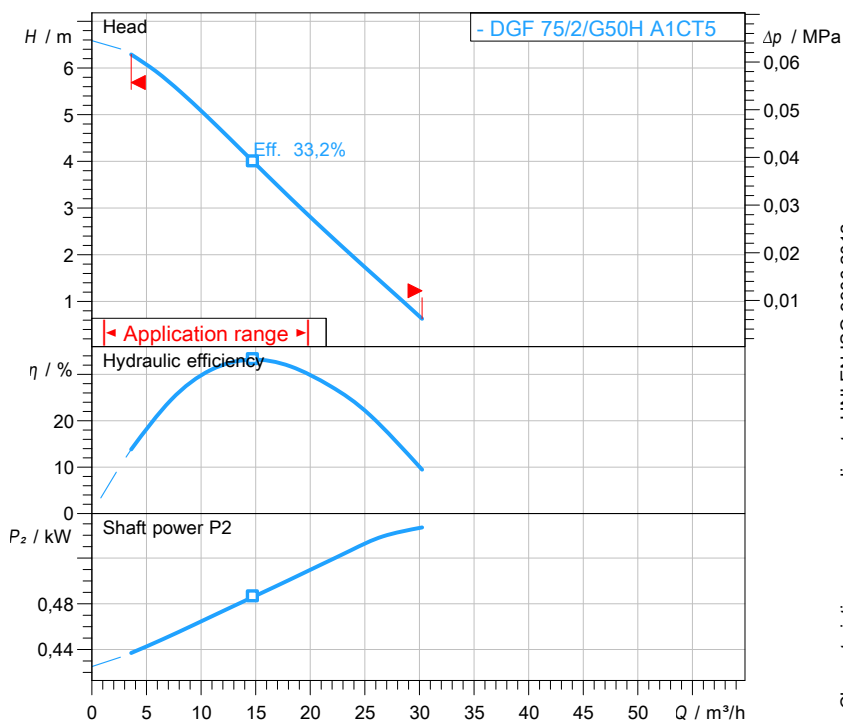


# F

series

## Technical specification

3~ 50 Hz



[ mm  
[inch]

### Pump

|               |                                               |
|---------------|-----------------------------------------------|
| Series        | F series                                      |
| Pump name     | DGF 75/2/G50H A1CT5                           |
| Configuration | NGTAB51040N00EX                               |
| Standard      | ATEX 94/9/CE                                  |
| ATEX mark     | II 2 GD Ex db k IIB T4 Ex tb IIIC T135°C IP68 |

### Motor data

|                      |                 |
|----------------------|-----------------|
| Rated voltage        | 400 V           |
| Frequency            | 50 Hz           |
| Motor phases         | 3~              |
| Number of poles      | 2               |
| Rated power P2       | 0,55 kW         |
| Incoming power P1    | 0,84 kW         |
| Rated current        | 1,5 A           |
| rpm                  | 2850 1/min      |
| cos φ                | 0,81            |
| Rated torque         | 1,8 Nm          |
| Start                | Direct starting |
| Degree of protection | IP 68           |
| Insulation class     | H               |

### Hydraulic

|                           |                          |
|---------------------------|--------------------------|
| Type                      | DG (Set-back Vortex)     |
| Free passage              | 50 mm                    |
| Impeller type             | Set-back Vortex impeller |
| Max. hydraulic efficiency | 33,2 %                   |
| Suction                   |                          |
| Discharge                 | DN 50 - G2" EN 1092-2    |
| Curve tolerance           | UNI EN ISO 9906:2012     |

### Operating limits (standard pumps)

|                                           |                     |
|-------------------------------------------|---------------------|
| Max. ambient temperature                  | 40 °C               |
| Max. density treated liquid               | 1100 kg/m³          |
| Max. immersion depth                      | 30 m                |
| pH treated liquid                         | 6 ÷ 14              |
| Max. start per hour (equally distributed) | 20                  |
| Wet/dry use                               | WET                 |
| Max. acoustic pressure level              | 70 dB               |
| Operating mode                            | S1 - Continuous use |

### Construction materials

|                        |                               |
|------------------------|-------------------------------|
| Case                   | Cast iron EN-GJL 250          |
| Shaft                  | Stainless steel - AISI 420    |
| Hydraulic              | Cast iron - EN-GJL 250        |
| Impeller               | Cast iron - EN-GJL 250        |
| Painting/Coating       | Bi-epoxy 150 µm               |
| Screws                 | Stainless steel - Class A2-70 |
| Gaskets                | VITON                         |
| Foot base (if present) | Cast iron - EN-GJS 600        |

### Construction features

|                     |                             |
|---------------------|-----------------------------|
| Cooling system      | No cooling jacket           |
| Main cable          | 4G1.5 + 2x0.75              |
| Control cable       | -                           |
| Cable length        | 10 mt                       |
| Mechanical seals    | 2 in silicon carbide (2SiC) |
| Additional drilling | -                           |
| Weight*             | 28 kg                       |
| Electrical variant  | Thermal protection          |

\* cable's weight not included

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All data shown are not binding. Zenit reserves the right to change data and dimensions without notice.

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Page 1 / 3



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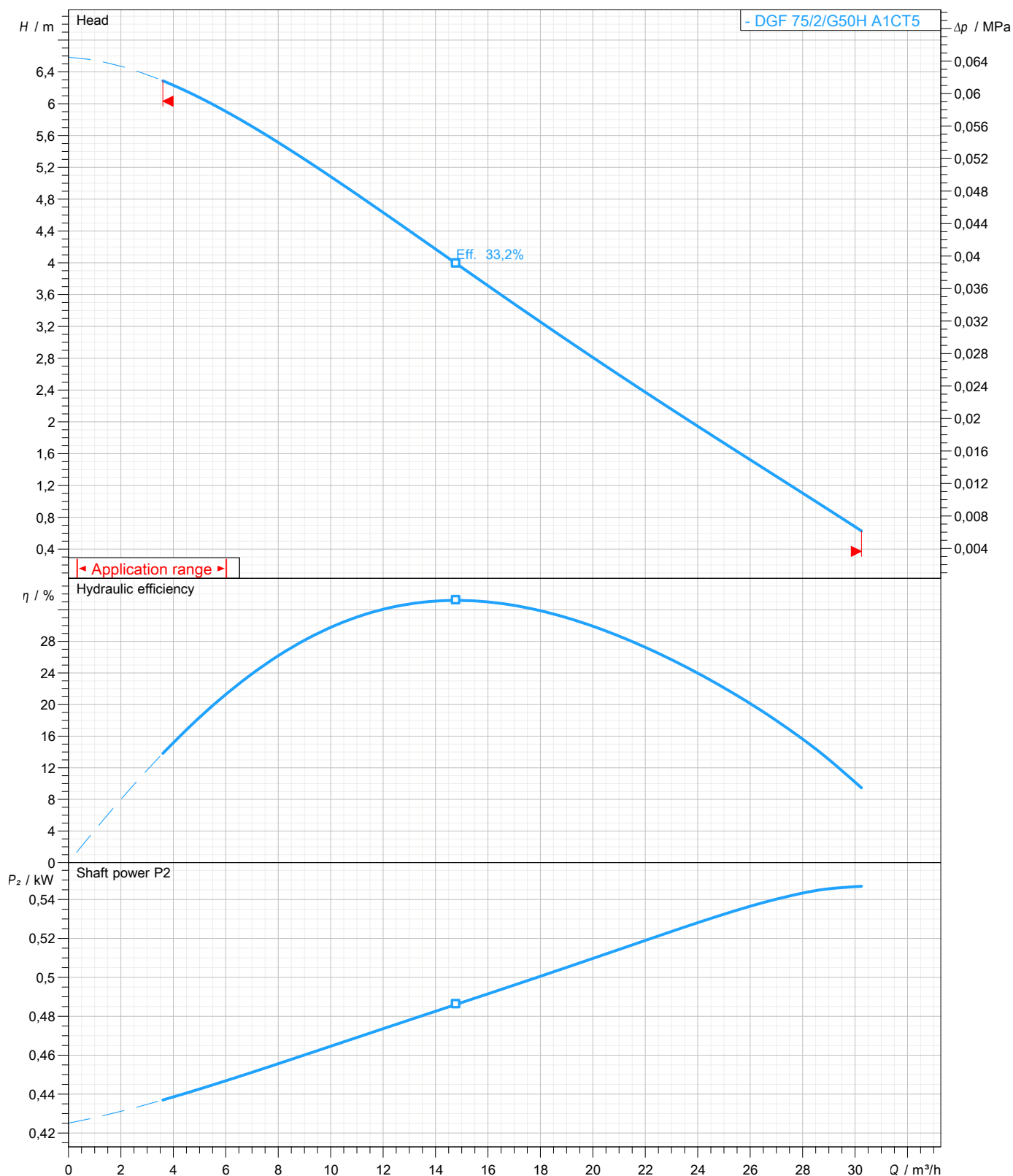
# F

series

## Pump performance curves

3~ 50 Hz

|                                        |      |                                           |                       |                                    |                                       |
|----------------------------------------|------|-------------------------------------------|-----------------------|------------------------------------|---------------------------------------|
| Hydraulic type<br>DG (Set-back Vortex) |      | Impeller type<br>Set-back Vortex impeller | Free passage<br>50 mm | Discharge<br>DN 50 - G2"           | Suction                               |
| DUTY POINT                             |      |                                           |                       |                                    |                                       |
| Flow                                   | Head | Shaft power P <sub>2</sub>                | Hydraulic efficiency  | Density<br>998,3 kg/m <sup>3</sup> | Viscosity<br>1,005 mm <sup>2</sup> /s |



Characteristic curves according to UNI EN ISO 9906:2012

## Dimensional drawing

3~ 50 Hz

**Installation type** Installation with bottom coupling device - Vertical outlet + GTP

WET/DRY use: WET

Discharge: DN 50 - G2" EN 1092-2

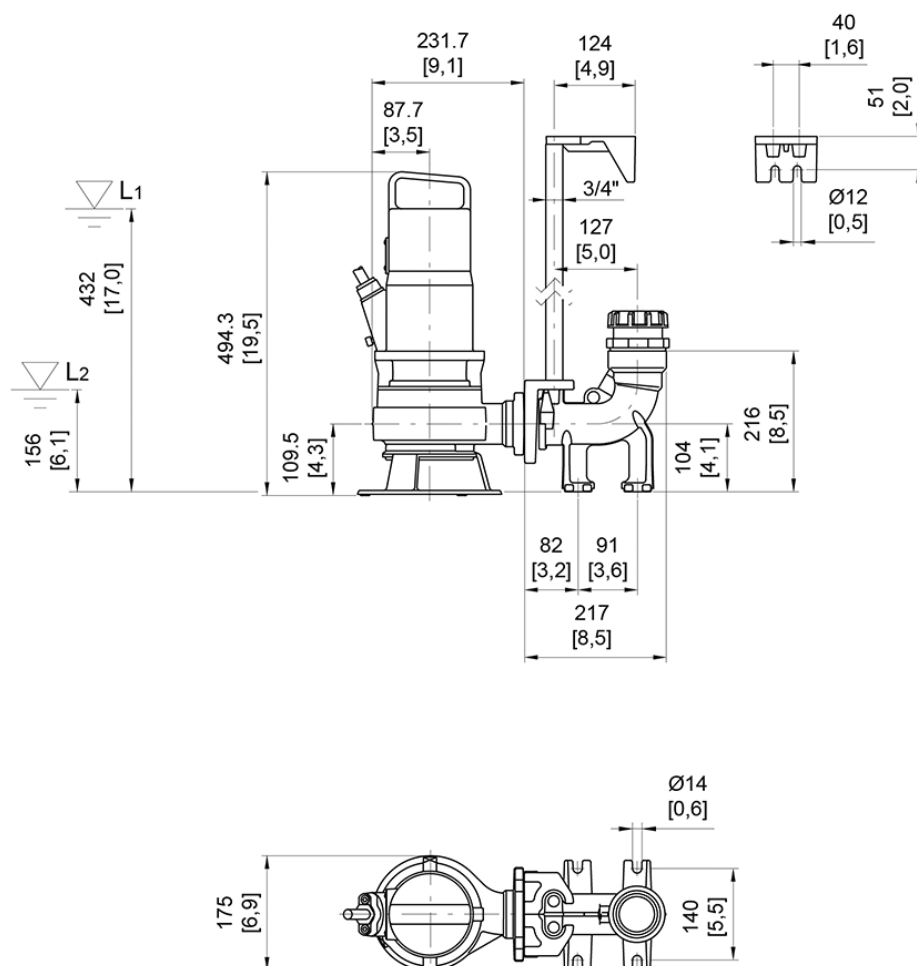
Suction:

Pressure rating (suction/discharge): PN 10

Accessory \*: DAC 32-50/G50V-G65V 3/4" EN+GTP (P)

Accessory code \*: 9028.002

\* Accessory must be ordered separately


L1: Minimum operating level for continuous use  
L2: Minimum operating level for discontinuous use