



## Data sheet

### Hydraulic data

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Minimum efficiency index (MEI)      | ≥0,4                               |
| Min. fluid temperature $T_{\min}$   | -20 °C                             |
| Max. fluid temperature $T_{\max}$   | 140 °C                             |
| Max. ambient temperature $T_{\max}$ | 40 °C                              |
| Maximum operating pressure $PN$     | 16 bar                             |
| Note on dimensioning                | 16 bar to 120 °C, 13 bar to 140 °C |

### Motor data

|                                      |                |
|--------------------------------------|----------------|
| Mains connection                     | 3~400 V, 50 Hz |
| Number of poles                      | 2              |
| Voltage tolerance                    | ±10 %          |
| Motor efficiency class               | IE3            |
| Rated power $P_2$                    | 18,5 kW        |
| Rated current $I_N$                  | 37,1 A         |
| Rated speed $n$                      | 2900 1/min     |
| Power factor $\cos \varphi_{100}$    | 0,79           |
| Motor efficiency 50% $\eta_M 50\%$   | 92 %           |
| Motor efficiency 75% $\eta_M 75\%$   | 92,8 %         |
| Motor efficiency 100% $\eta_M 100\%$ | 92,4 %         |
| Insulation class                     | F              |
| Protection class motor               | IP55           |
| Motor protection                     | PTC integrated |

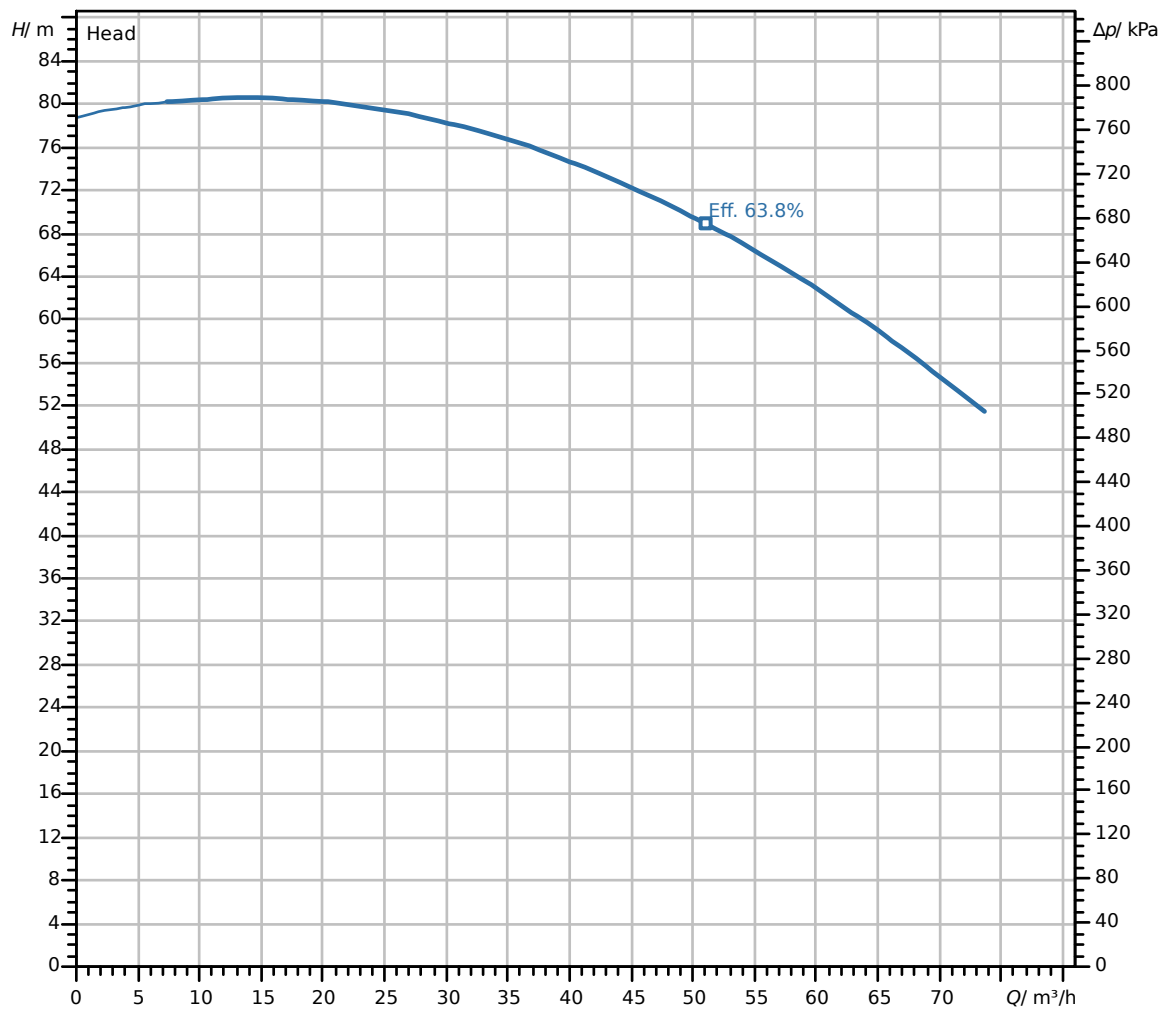
### Materials

|                 |                              |
|-----------------|------------------------------|
| Pump housing    | 5.1301/EN-GJL-250 KTL-coated |
| Impeller        | Grey cast iron EN-GJL-200    |
| Shaft           | Stainless steel              |
| Mechanical seal | AQ1EGG                       |
| Lantern         | 5.1301/EN-GJL-250 KTL-coated |

### Installation dimensions

|                                             |        |
|---------------------------------------------|--------|
| Pipe connection on the suction side $DNs$   | DN 50  |
| Pipe connection on the discharge side $DNd$ | DN 50  |
| Port-to-port length $L0$                    | 440 mm |

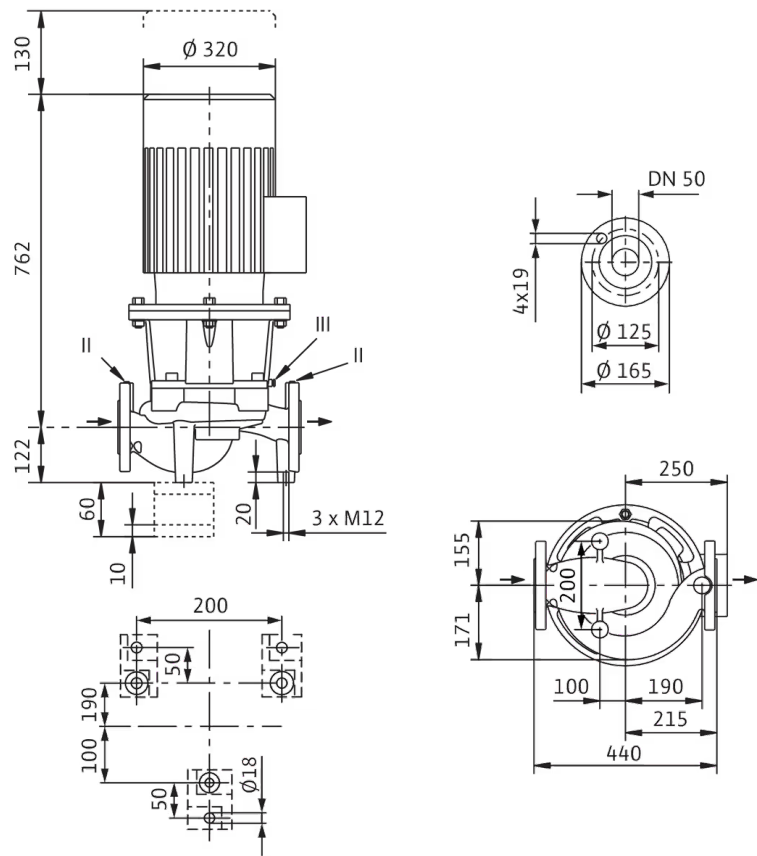
Pump curves



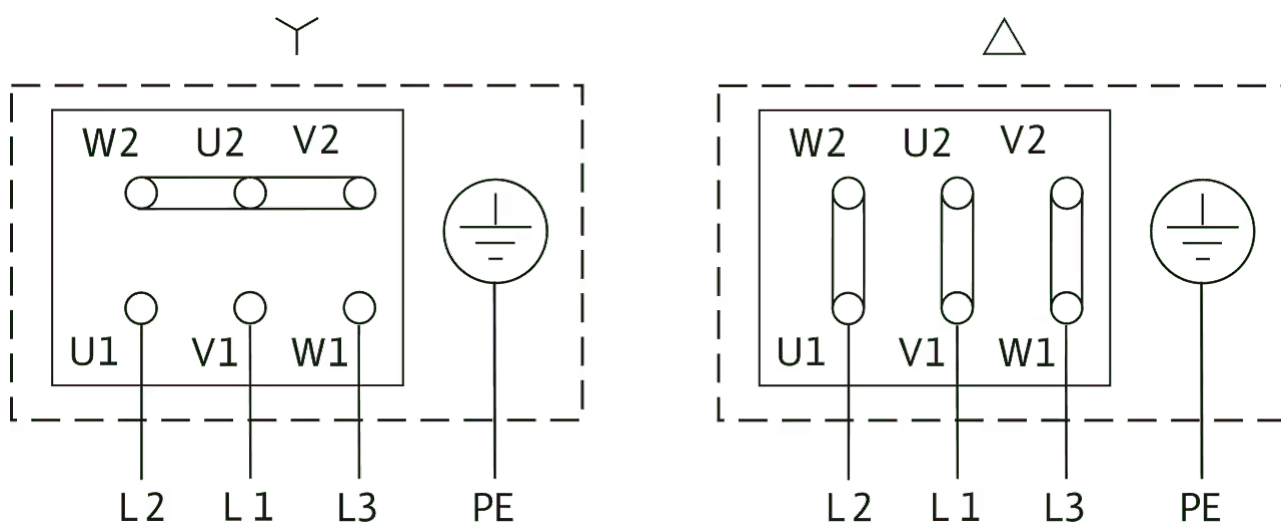
|                     |             |
|---------------------|-------------|
| Fluid media         | Water 100 % |
| Fluid temperature   | 20.00 °C    |
| speed at duty point | 2,959 1/min |
| Impeller diameter   | 230 mm      |

Dimensions and dimensions drawings

Atmos GIGA-I 50/230-18,5/2



# Wiring diagram



Δ: Connection diagram delta connection

Y: Connection diagram star connection

Motor protection switch required on-site. Check the direction of rotation! To change the direction of rotation, exchange any two phases.

$P_2 \leq 3 \text{ kW}$  3~400 V Y

3~230 V Δ

$P_2 \geq 4 \text{ kW}$  3~690 V Y

3~400 V Δ

After removing the bridges, Y-Δ start is possible.