



Similar to figure

Data sheet

Hydraulic data

|                                    |           |
|------------------------------------|-----------|
| Maximum operating pressure $P_N$   | 10 bar    |
| Head max $H_{max}$                 | 16,3 m    |
| Flow max $Q_{max}$                 | 30,2 m³/h |
| Minimum suction head at 50 °C $m$  | 5 m       |
| Minimum suction head at 95 °C $m$  | 12 m      |
| Minimum suction head at 110 °C     | 18 m      |
| Min. fluid temperature $T_{min}$   | -10 °C    |
| Max. fluid temperature $T_{max}$   | 110 °C    |
| Min. ambient temperature $T_{min}$ | -10 °C    |
| Max. ambient temperature $T_{max}$ | 40 °C     |

Motor data

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Energy efficiency index (EEI) | ≤0,17                                                |
| Mains connection              | 1~230 V ±10%, 50/60 Hz                               |
| Min current $I_{min}$         | 0,2 A                                                |
| Max current $I_{max}$         | 2,8 A                                                |
| Rated power $P_2$             | 537 W                                                |
| Min. speed $n_{min}$          | 650 1/min                                            |
| Max. speed $n_{max}$          | 3850 1/min                                           |
| Power consumption $P_{1 min}$ | 10 W                                                 |
| Power consumption $P_{1 max}$ | 640 W                                                |
| Emitted interference          | EN 61800-3;2004+A1;2012 /residential area (C1)       |
| Interference resistance       | EN 61800-3;2004+A1;2012 /industrial environment (C2) |
| Insulation class              | F                                                    |
| Protection class              | IPX4D                                                |
| Threaded cable connection     | 5 x M16x1.5                                          |

Installation dimensions

|                                              |        |
|----------------------------------------------|--------|
| Pipe connection on the suction side $DN_s$   | DN 40  |
| Pipe connection on the discharge side $DN_d$ | DN 40  |
| Port-to-port length $L_0$                    | 250 mm |

### Materials

|              |                              |
|--------------|------------------------------|
| Pump housing | Grey cast iron               |
| Impeller     | PPS-GF40                     |
| Shaft        | 1.4028, DLC-coated           |
| Bearing      | Carbon, antimony-impregnated |

## Equipment/function

### Function

|                                |                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------|
| Control mode                   | Δp-v for variable differential pressure                                                              |
|                                | Δp-c for constant differential pressure                                                              |
|                                | Q limit for limiting the maximum volume flow                                                         |
|                                | Dynamic Adapt plus                                                                                   |
|                                | ΔT-const. for constant differential temperature control                                              |
|                                | T-const. for constant temperature control                                                            |
|                                | Constant Q for constant volume flow control                                                          |
|                                | Multi Flow Adaptation                                                                                |
|                                | Δ T-const. for constant differential temperature control                                             |
|                                | User-defined PID control                                                                             |
|                                | Constant speed (n-const.)                                                                            |
| Special features of the series | Heating/Cooling switching                                                                            |
|                                | Night set back                                                                                       |
|                                | Heat quantity measurement                                                                            |
|                                | Cooling quantity measurement                                                                         |
|                                | Key locking function                                                                                 |
|                                | No-Flow Stop                                                                                         |
|                                | Reset function to factory setting                                                                    |
|                                | Adjustable volume flow limiter                                                                       |
|                                | Ability to save and restore configured pump settings (3 restoration points)                          |
| Multi pump operation           | Main/Standby                                                                                         |
|                                | Parallel operation                                                                                   |
| Measurement value logging      | Heat and cooling capacity measurement                                                                |
| Display                        | Setpoint                                                                                             |
|                                | Actual delivery head                                                                                 |
|                                | Actual volume flow                                                                                   |
|                                | Actual power consumption                                                                             |
|                                | Energy consumption                                                                                   |
|                                | Temperature (version "-R7": current fluid temperature possible with Stratos MAXO temperature sensor) |
|                                | Warning messages in plain text (display status: yellow)                                              |
|                                | Error messages in plain text (display: red)                                                          |
|                                | Pump venting (display status: blue)                                                                  |
|                                | Control mode                                                                                         |
|                                | Active influences (e.g. STOP)                                                                        |

### Function

|                                |                  |
|--------------------------------|------------------|
| Display (can also be selected) | Speed            |
|                                | Heating quantity |
|                                | Cooling quantity |
|                                | Operating hours  |
|                                | Mains voltage    |
|                                | Warning message  |
|                                | Error message    |
| Pump venting function          | Yes              |

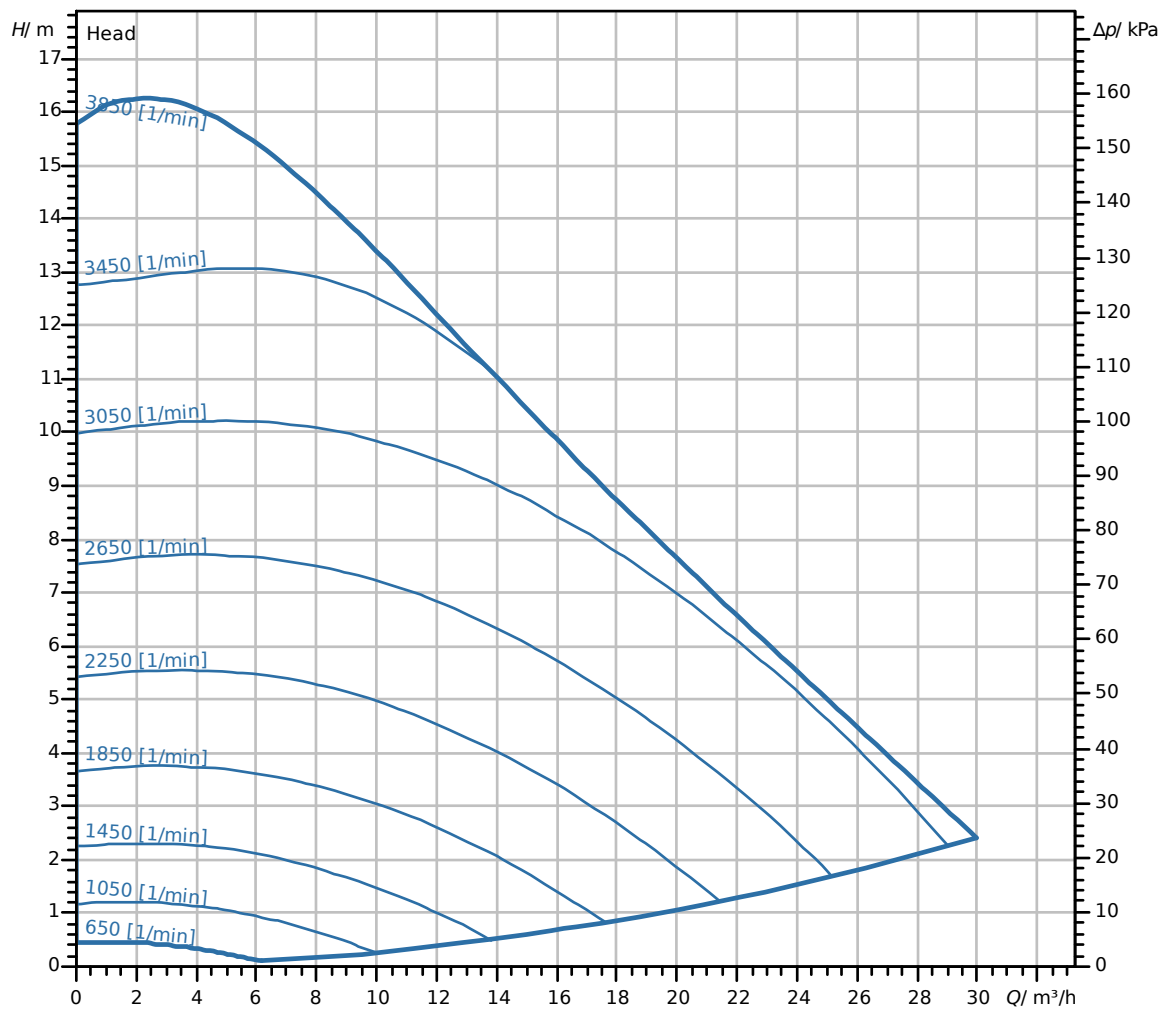
### Equipment

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| Approvals and labels         | CE                                                                                                    |
|                              | VDE                                                                                                   |
|                              | EAC                                                                                                   |
| Cold water insulation shell  | As accessories                                                                                        |
| Display                      | Graphic colour display (4.3 inches)                                                                   |
| Display information          | Comfort Version: LCD display (large) for showing the head, flow volume, actual und cumulated current. |
| Pump control                 | Electronic-controlled pump                                                                            |
| Quick electrical connection  | Wilo Connector                                                                                        |
| Thermal insulation shell     | Yes                                                                                                   |
| Blocking-current proof motor | yes                                                                                                   |
| Particle filter              | yes                                                                                                   |
| Key lock                     | yes                                                                                                   |

## Connectivity

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Access via the Wilo-Assistant app            | Yes                                     |
| Analogue signal as standard                  | 0-10 V                                  |
|                                              | 2-10 V                                  |
|                                              | 4-20 mA                                 |
|                                              | 0-20 mA                                 |
|                                              | PT1000                                  |
| Bus communication via additional accessories | BACnet MS/TP                            |
|                                              | LON                                     |
|                                              | Modbus RTU                              |
|                                              | CANopen                                 |
|                                              | PLR                                     |
|                                              | BACnet IP                               |
|                                              | Modbus TCP                              |
| Connection for Wilo-Smart Cloud              | Via Wilo-Smart Gateway                  |
| Digital input                                | Ext. OFF                                |
|                                              | Ext. MIN                                |
|                                              | Ext. MAX                                |
|                                              | MANUAL (BMS-OFF)                        |
|                                              | Key lock                                |
|                                              | Switchover between heating/cooling mode |
| Digital output                               | SSM                                     |
|                                              | SBM                                     |
| wire data exchange and remote operation      | Bluetooth                               |

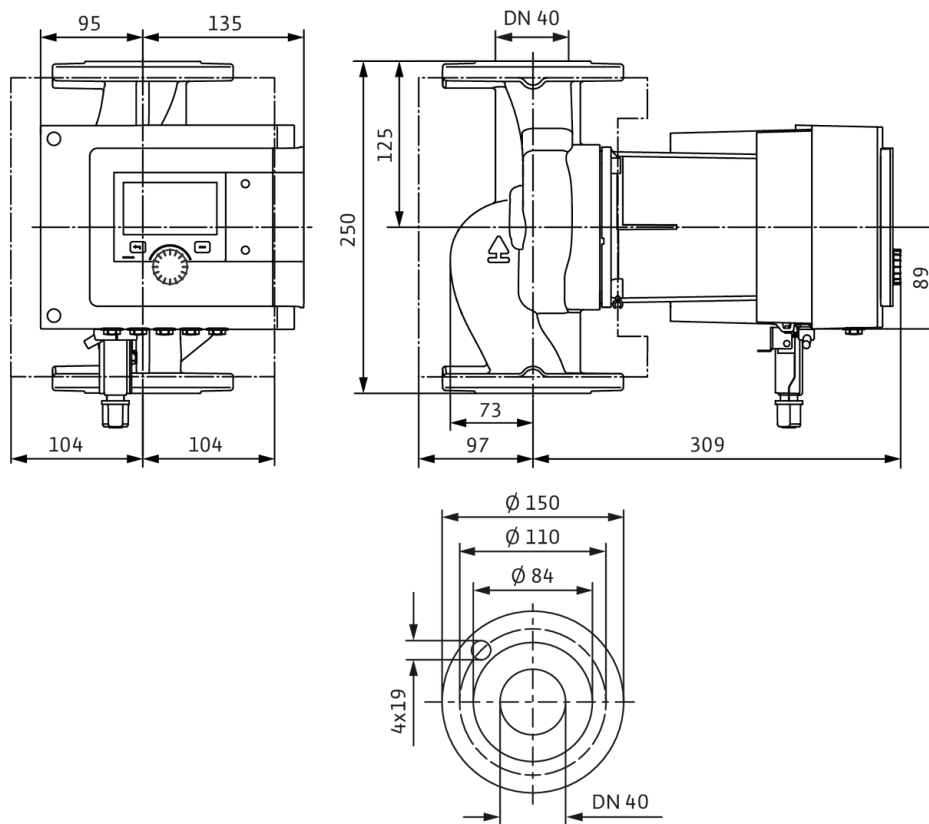
Pump curves



|                     |             |
|---------------------|-------------|
| Fluid media         | Water 100 % |
| Fluid temperature   | 20.00 °C    |
| speed at duty point | 3,253 1/min |

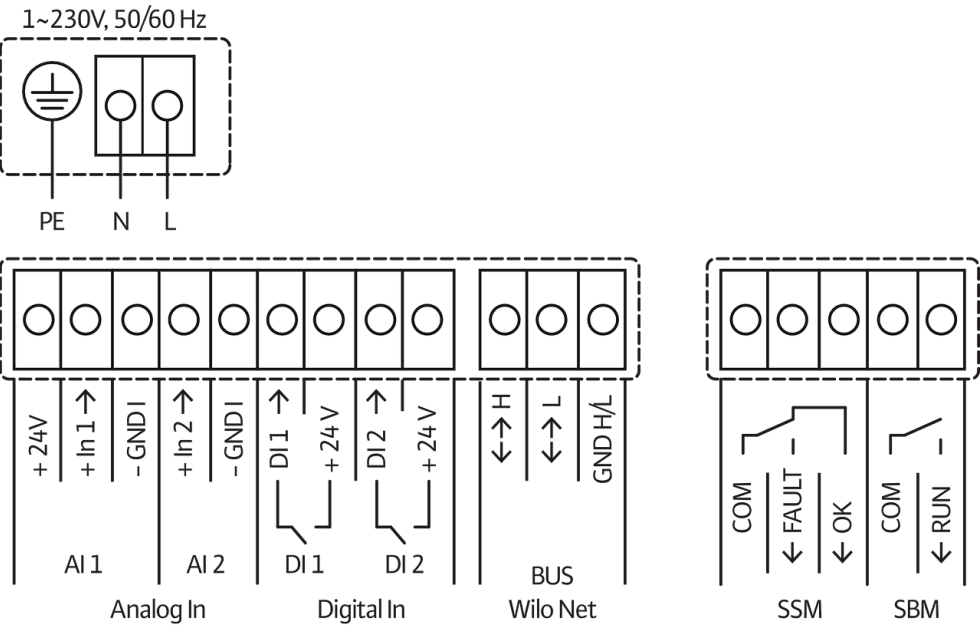
## Dimensions and dimensions drawings

### Stratos MAXO 40/0,5-16 PN6/10



Wiring diagram

Standard: 1~ 230 V, 50/60 Hz, Option: 3~ 230 V, 50/60 Hz



SSM: Collective fault signal (NC contact in accordance with VDI 3814, load capacity 1 A, 250 V ~)