



Data sheet

Hydraulic data

|                                    |           |
|------------------------------------|-----------|
| Maximum operating pressure $P_N$   | 10 bar    |
| Head max $H_{max}$                 | 16,6 m    |
| Flow max $Q_{max}$                 | 47,9 m³/h |
| Minimum suction head at 50 °C $m$  | 7 m       |
| Minimum suction head at 95 °C $m$  | 15 m      |
| Minimum suction head at 110 °C     | 23 m      |
| Min. fluid temperature $T_{min}$   | -20 °C    |
| Max. fluid temperature $T_{max}$   | 110 °C    |
| Min. ambient temperature $T_{min}$ | -20 °C    |
| Max. ambient temperature $T_{max}$ | 40 °C     |

Motor data

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Energy efficiency index (EEI) | ≤0,20                                                |
| Mains connection              | 1~230 V ±10%, 50/60 Hz                               |
| Min current $I_{min}$         | 0,3 A                                                |
| Max current $I_{max}$         | 5,5 A                                                |
| Rated power $P_2$             | 1050 W                                               |
| Min. speed $n_{min}$          | 800 1/min                                            |
| Max. speed $n_{max}$          | 3300 1/min                                           |
| Power consumption $P_{1 min}$ | 40 W                                                 |
| Power consumption $P_{1 max}$ | 1250 W                                               |
| Emitted interference          | EN 61800-3;2004+A1;2012 /residential area (C1)       |
| Interference resistance       | EN 61800-3;2004+A1;2012 /industrial environment (C2) |
| Threaded cable connection     | 2 x M20x1.5                                          |
| Insulation class              | F                                                    |
| Protection class              | IPX4D                                                |

Materials

|              |                 |
|--------------|-----------------|
| Pump housing | Grey cast iron  |
| Impeller     | PPE/PS-GF30     |
| Shaft        | Stainless steel |
| Bearing      | Carbon-graphite |

## Installation dimensions

|                                                  |        |
|--------------------------------------------------|--------|
| Pipe connection on the discharge side <i>DNd</i> | DN 50  |
| Pipe connection on the suction side <i>DNs</i>   | DN 50  |
| Port-to-port length <i>L0</i>                    | 340 mm |

## Equipment/function

### Function

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Control mode         | $\Delta p$ -v for variable differential pressure |
|                      | $\Delta p$ -c for constant differential pressure |
|                      | Constant speed (3 speed stages)                  |
| Multi pump operation | Main/Standby (with Connect Module Yonos MAXO)    |
| Display              | Setpoint                                         |
|                      | Fault signals (error codes)                      |

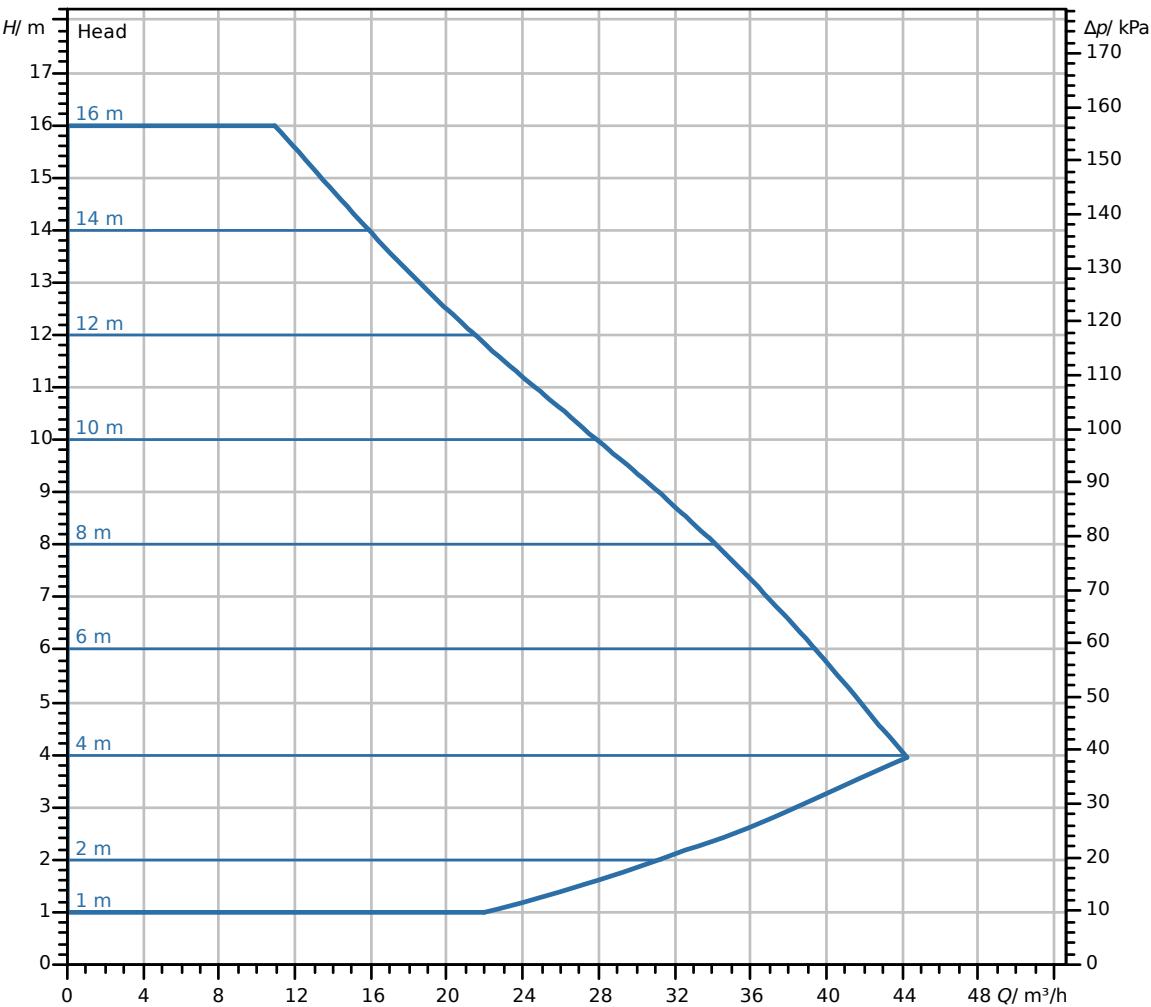
### Equipment

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Approvals and labels         | CE                                                                          |
|                              | VDE                                                                         |
|                              | EAC                                                                         |
| Display                      | LED segment display                                                         |
| Display information          | Basic Version: LED display (small) for showing the set head or speed stage. |
| Pump control                 | Electronic-controlled pump                                                  |
| Quick electrical connection  | Wilo plug                                                                   |
| Thermal insulation shell     | As accessory                                                                |
| Blocking-current proof motor | yes                                                                         |
| Particle filter              | yes                                                                         |

### Connectivity

|                |                                                           |
|----------------|-----------------------------------------------------------|
| Digital input  | Ext. OFF (via accessories Wilo-Connect module Yonos MAXO) |
| Digital output | SSM/SBM (via accessories Connect module Yonos MAXO)       |

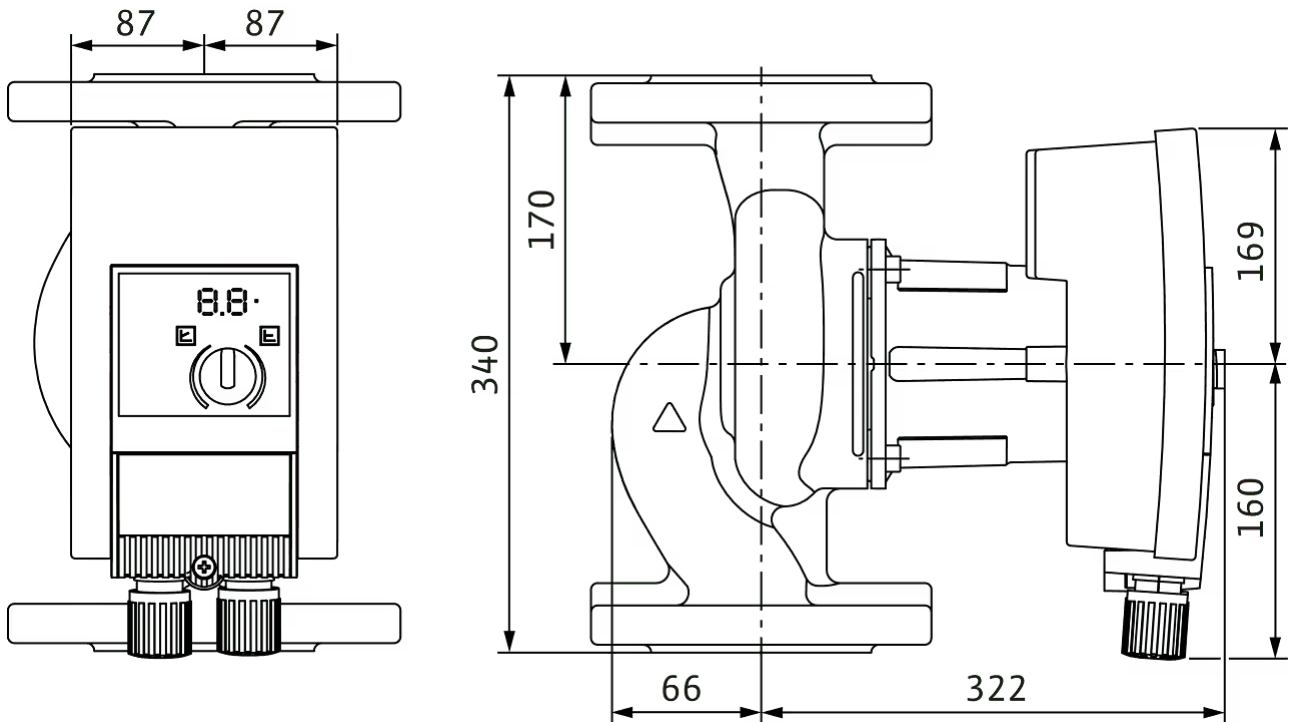
Pump curves



|                     |             |
|---------------------|-------------|
| Fluid media         | Water 100 % |
| Fluid temperature   | 20.00 °C    |
| speed at duty point | 2,719 1/min |

## Dimensions and dimensions drawings

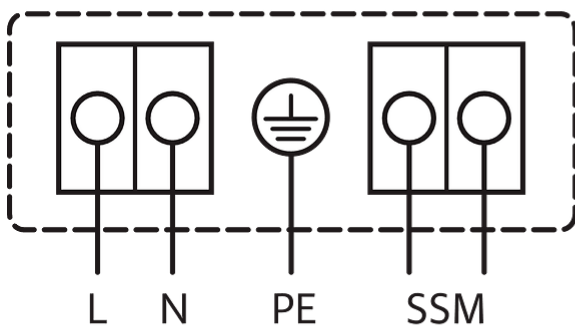
### Yonos MAXO 50/0,5-16



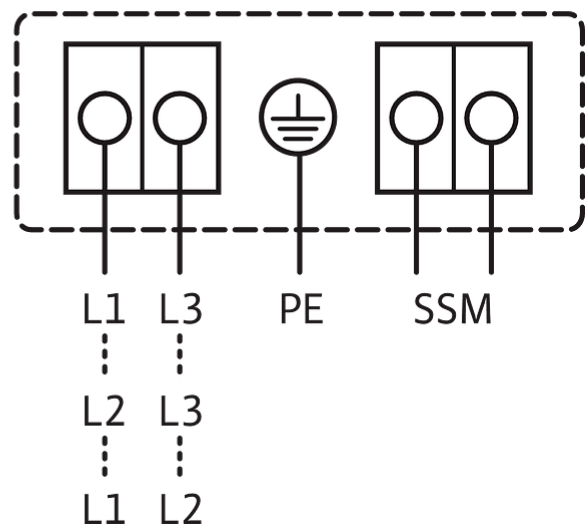
## Wiring diagram

1~230V, 50/60 Hz

1~ 230 V, 50/60 Hz



3~230 V, 50/60 Hz



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

Standard: 1~230 V, 50/60 Hz

Option: 3~230 V, 50/60 Hz