

# Yonos MAXO 50/0,5-9 PN 6/10

Glandless pump circulator

**Article number:** 2120650

## Data sheet

### Hydraulic data

| | |
|---|---|
| Maximum operating pressure *PN* | 10 bar |
| Head max $H_{max}$ | 10.3 m |
| Flow max $Q_{max}$ | 29.0 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 $T_{min}$ | -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 |

### Motor data

| | |
|---|---|
| Mains connection | 1~230 V ±10%, 50/60 Hz |
| Min current $I_{min}$ | 0.17 A |
| Max current $I_{max}$ | 2.15 A |
| Rated power $P_2$ | 400 W |
| Min. speed $n_{min}$ | 950 1/min |
| Max. speed $n_{max}$ | 4100 1/min |
| Power consumption $P_1$ min | 15 W |
| Power consumption $P_1$ max | 490 W |
| Emitted interference | EN 61800-3;2004+A1;2012 /residential area (C1) |

### Motor data

| | |
|---|---|
| Interference resistance | EN 61800-3;2004+A1;2012 /industrial environment (C2) |
| Threaded cable connection | 2 x M20x1.5 |
| Insulation class | F |
| Protection class | IPX4D |

* The benchmark for the most efficient circulators is EEI ≤ 0.20

### Materials

| | |
|---|---|
| Pump housing | Grey cast iron |
| Impeller | PPS-GF40 |
| Shaft | Stainless steel |
| Bearing | Carbon-graphite |

### Installation dimensions

| | |
|---|---|
| Pump connection | DN 50 |
| Port-to-port length *L0* | 280 mm |

## Equipment/function

### Function

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

### Equipment

| | |
|---|---|
| Approvals and labels | CE<br>VDE<br>EAC |

### Equipment

| | |
|---|---|
| Display | LED segment display |
| Display information | Basic Versio n: 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 |

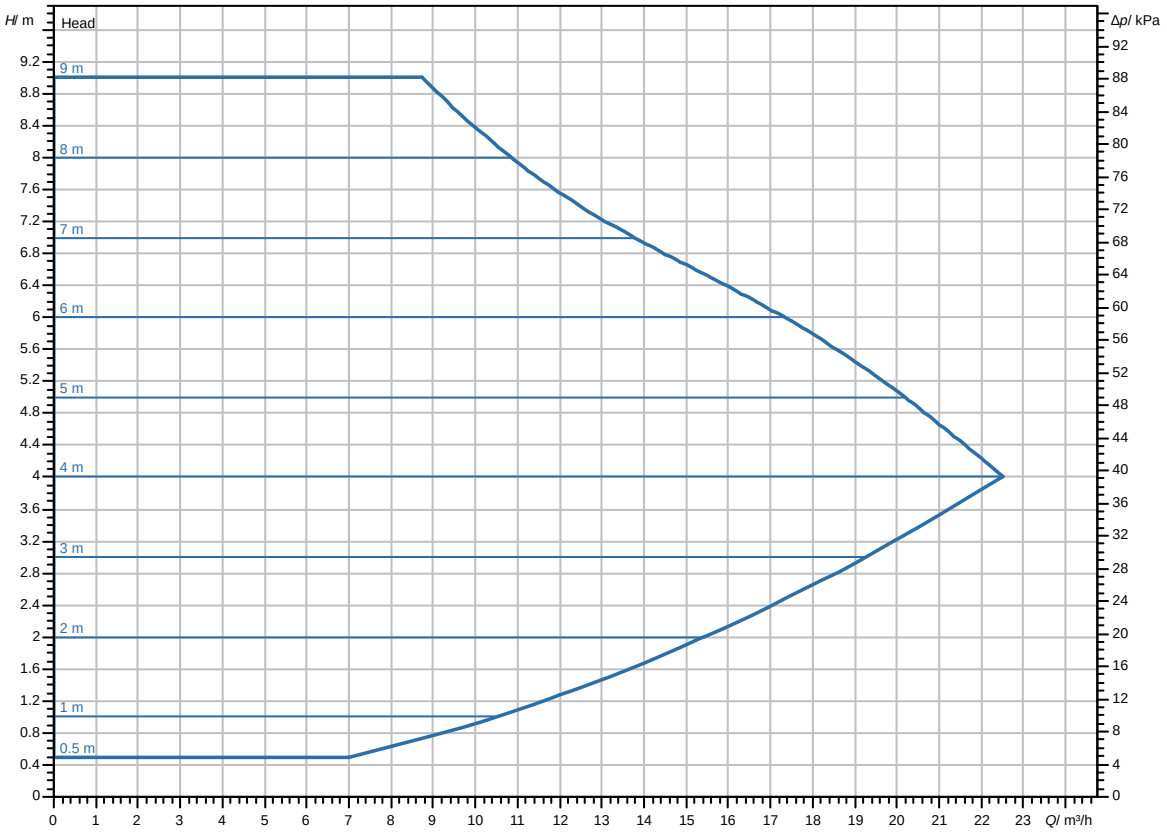
## Equipment

| | |
|---|---|
| Radio standard Bluetooth | no |

## Connectivity

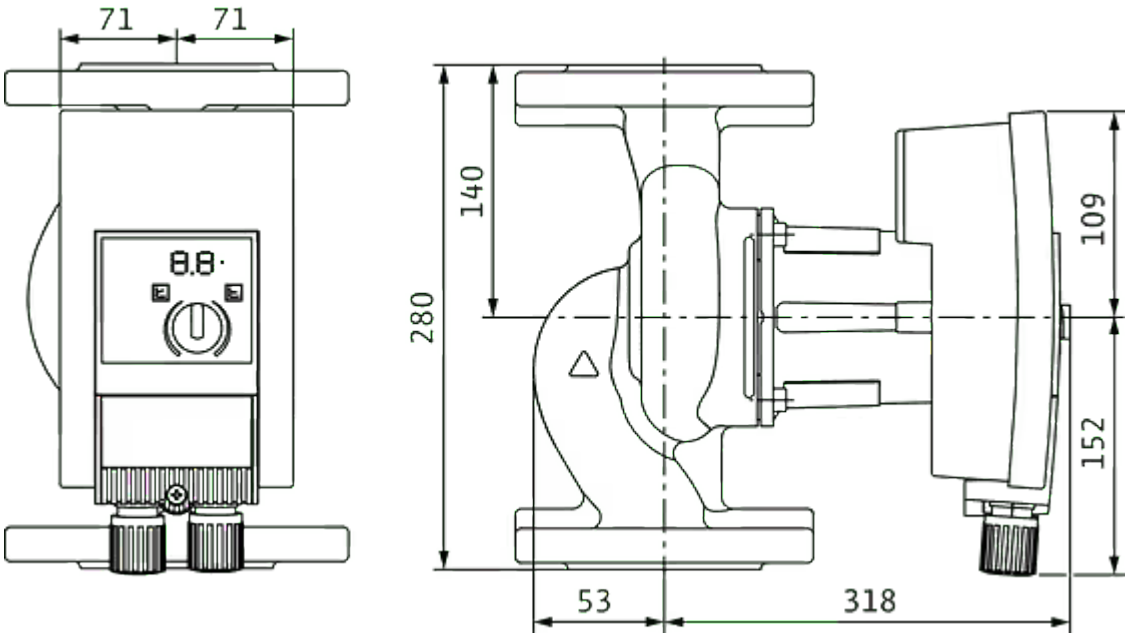
| | |
|---|---|
| Digital input | Ext. OFF (via accessories Wilo-Connect module Yonos MAXO) |
| Digital output | SSM<br>SSM/SBM (via accessories Connect module Yonos MAXO) |

# Pump curves



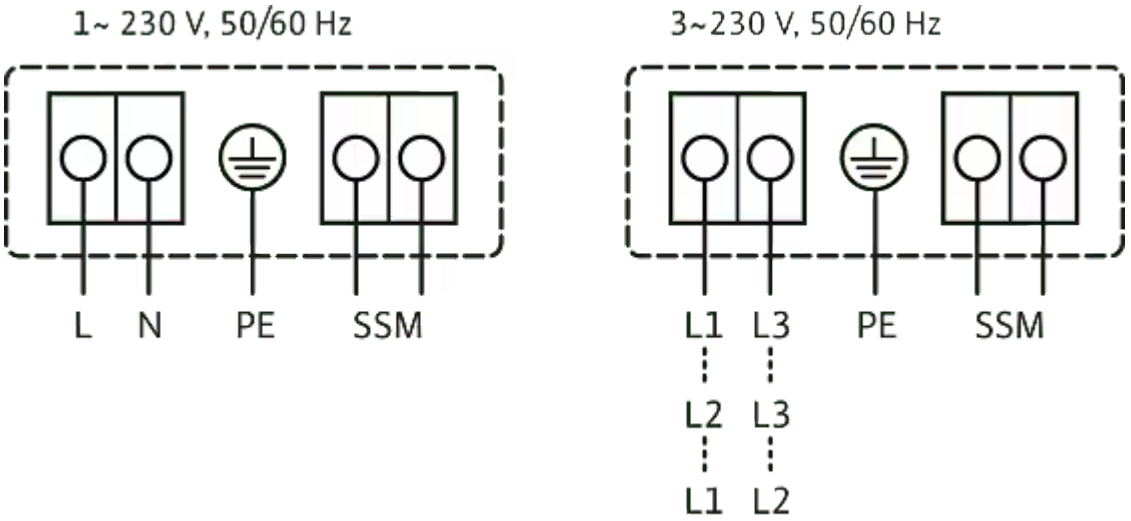
## Dimensions and dimensions drawings

### Yonos MAXO 50/0,5-9




## Wiring diagram

### 1~230V, 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

# Ordering information

## Product data

| | |
|---|---|
| Brand | Wilo |
| Product description | Yonos MAXO 50/0,5-9 PN 6/10 |
| Article number | 2120650 |
| EAN number | 4048482235967 |
| Colour | green/black |
| Minimum order quantity | 1 |
| Date of sales availability | 2013-09-01 |

## Dimension, weight

| | |
|---|---|
| Length with packaging | 600 mm |
| Length *L* | 292 mm |
| Height with packaging | 400 mm |
| Height *H* | 334 mm |
| Width with packaging | 394 mm |
| Width *W* | 165 mm |
| Gross weight, approx. *m* | 16.1 kg |
| Net weight, approx. *m* | 14.2 kg |

## Packaging

| | |
|---|---|
| Packaging type | Cardboard box |
| Packaging property | Transport packaging |
| Pieces per pallet | 8 |
| Number per layer | 4 |

## Tender text

High efficiency pump Wilo-Yonos MAXO

electronically controlled,

Glandless circulator, synchronous motor according to ECM technology and integrated power control for continuous differential pressure control. Can be used for all heating, ventilation and air-conditioning applications.

Standard-equipped with:

- Preselectable control modes for optimum load adjustment: Δp-c (differential pressure constant), Δp-v (differential pressure variable)
- 3 speed stages (n = constant)
- LED for setting the setpoint and displaying error messages
- Electrical connection with the Wilo plug
- Fault lamp and contact for collective fault signal

For flange-end pumps - flange versions:

- Standard version for pumps DN 32 to DN 65: PN 6/10 combination flange (PN 16 flange according to EN 1092-2) for PN 6 and PN 16 counter flanges
- Standard version for DN 80/DN 100 pumps: PN 6 flange (designed for PN 16 according to EN 1092-2) for PN 6 counter flange

### Operating data

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|---|---|
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| Net weight, approx. *m* | 14.2 kg |
| Article number | 2120650 |