Data sheet: Stratos MAXO 30/0,5-10 PN10

Hydraulic data

Maximum operating pressure *PN*	10 bar
Head max H_{max}	10.0
Flow max Q_{max}	12.0
Minimum suction head at 50 °C	3
Minimum suction head at 95 °C	10
Minimum suction head at 110 °C	16
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

Installation dimensions

Pipe connection on the suction side *DNs*	G 2
Pipe connection on the pressure side *DNd*	G 2
Port-to-port length *l0*	180 mm

Information for order placements

Brand	Wilo
Product description	Stratos MAXO 30/0,5-10 PN10
EAN number	4048482699448
Article number	2164575
Net weight, approx. *m*	8 kg
Gross weight, approx. *m*	8.6 kg
Length with packaging	400 mm
Height with packaging	263 mm
Width with packaging	300 mm
Packaging property	Transport packaging
Packaging type	Cardboard box
Minimum order quantity	1

Motor data

Energy efficiency index (EEI)	0.19
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power P_2	234.0 W
Min. speed n_{min}	450 rpm
Max. speed n_{max}	3950 rpm
Power consumption $P_{1\ min}$	7.0 W
Power consumption $P_{1\ max}$	275.0 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

Materials

Pump housing	EN-GJL-200
Impeller	PPS-GF40
Shaft	1.4122, DLC-coated
Bearing	Carbon, antimony-impregnated

Tender text: Stratos MAXO 30/0,5-10 PN10

Premium smart-pump Wilo-Stratos MAXO

High-efficiency inline glandless pump with EC motor and electronic power adjustment. Can be used for cold water, heating water and water/glycol mixtures. Energy efficiency index (EEI) between ≤ 0.17 and ≤ 0.19 depending on pump type.

Control modes:

- **Permanent, automatic performance adaptation to system requirements without setpoint specification Wilo Dynamic Adapt plus (factory setting). Up to 20% energy savings compared to dp-v control mode.**
- **Constant temperature (T-const.)**
- **Constant differential temperature (dT-const.)**
- **Needs-based volume flow optimisation of the feeder pump through connectivity and communication between multiple pumps (Multi-Flow Adaptation).**
- **Constant volume flow (Q-const.)**
- **Differential pressure control (dp-c) to a remote point in the pipe network (index circuit evaluator)**
- **Constant differential pressure (dp-c)**
- **Variable differential pressure (dp-v) with the option to set the nominal duty point**
- **Constant speed (n-const.)**
- **User-defined PID control**

Functions:

- **Heat quantity measurement**
- **Cooling quantity measurement**
- **Pump automatically deactivates when no flow is detected (No-Flow Stop)**
- **Switchover between heating and cooling mode (automatic, external or manual)**
- **Adjustable volume flow limiter using the Q-Limit function ($Q_{min.}$ and $Q_{max.}$)**
- **Operating modes of twin-head pumps: Efficiency-optimised parallel operation for dp-c and dp-v, main and standby operation**
- **Ability to save and restore configured pump settings (3 restoration points)**
- **Fault and warning messages shown in plain text with advice on resolving the issue**
- **Pump venting function for automatic venting of the rotor chamber**
- **Automatic setback operation**
- **Automatic deblocking function and integrated full motor protection**
- **Dry-running detection**

Display:

- **Control mode**
- **Setpoint**
- **Volume flow**
- **Temperature**
- **Power consumption**
- **Electric consumption**
- **Active influences (e.g. STOP, No-Flow Stop)**

Version:

- **2 configurable analogue inputs: 0–10 V, 2–10 V, 0–20 mA, 4–20 mA and commercially available PT1000; +24 V DC power supply**
- **2 configurable digital inputs (Ext. OFF, Ext. Min, Ext. Max, heating/cooling, manual override (uncoupled from building automation), operation lock (key lock and remote operation configuration protection))**
- **2 configurable signal relays for operational and fault messages**
- **Slot for Wilo-CIF modules with interfaces for building automation (BA) (optional accessories: Modbus RTU CIF Module, BACnet MS/TP, LON and PLR)**
- **Wilo Net as a Wilo system bus for communication between Wilo products, e.g. Multi-Flow Adaptation; double pump operation and Wilo-Smart Gateway**
- **Integrated temperature sensor**
- **Automatic emergency operation with definable pump speed for exceptional circumstances, e.g. bus communication or sensor value malfunction**
- **Graphic colour display (4.3 inches) with one-button manual operation**
- **Use the Wilo-Assistant app to read and set operating data and –among other things– set up a commissioning protocol through the Bluetooth interface (no further accessories required)**
- **Integrated double pump management (double pumps are prewired) when using 2 single pumps as double pump unit (connection via Wilo Net)**
- **Cable break detection when using an analogue signal (in connection with 2–10 V or 4–20 mA)**
- **Outdoor installation with weather protection possible in accordance with the installation and operating instructions**
- **Pre-set date and time**
- **Thermal insulation shell for heating applications**

Scope of delivery

- **Pump**
- **Optimised Wilo-Connector the same for all sizes**
- **2x threaded cable connection M16 x 1.5**
- **Washers for flange screws M12 and M16 (for nominal connection diameters DN 32 to DN 65)**
- **2x gaskets for threaded connection**
- **Thermal insulation shell**
- **Concise Installation and operating instructions**

Optional accessories:

- **ClimaForm cold insulation to avoid the formation of condensate**
- **CIF module: Modbus RTU, BACnet MS/TP, LON, PLR**
- **PT 1000 (B) pipe contact sensor (for domestic hot water)**
- **PT 1000 (AA) sensor for installation in immersion well**
- **Differential pressure sensor**

Operating data

Fluid media	Water
Maximum operating pressure *PN*	10 bar
Minimum suction head at 50 °C	3
Minimum suction head at 95 °C	10
Minimum suction head at 110 °C	16

Tender text: Stratos MAXO 30/0,5-10 PN10

Materials for order placements

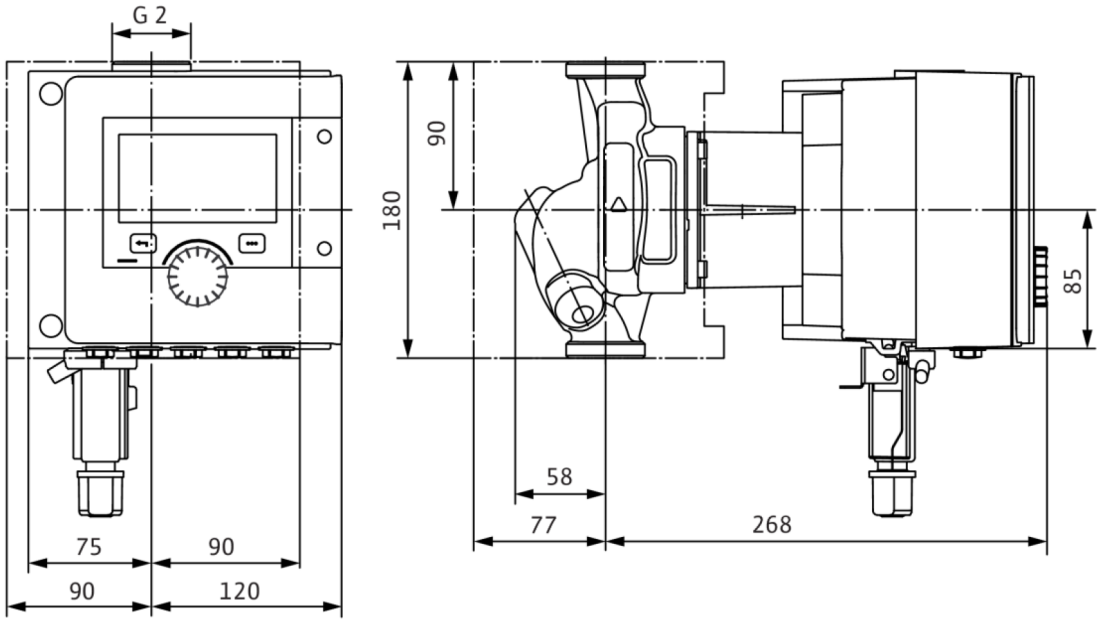
Brand	Wilo
Impeller	Stainless steel
Shaft	1.4122, DLC-coated
Bearing	Carbon, antimony-impregnated

Installation dimensions

Energy efficiency index (EEI)	≤ 0.19
Rated interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Pipe connection on the pressure side	G 2
DN	80 mm
Installation length	360 mm
	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Mains connection	1~230 V, 50/60 Hz
Power consumption $P_{1\ max}$	275.0 W
Min. speed n_{min}	450 rpm
Max. speed n_{max}	3950 rpm
Protection class motor	IPX4D
Threaded cable connection	5 x M16x1.5

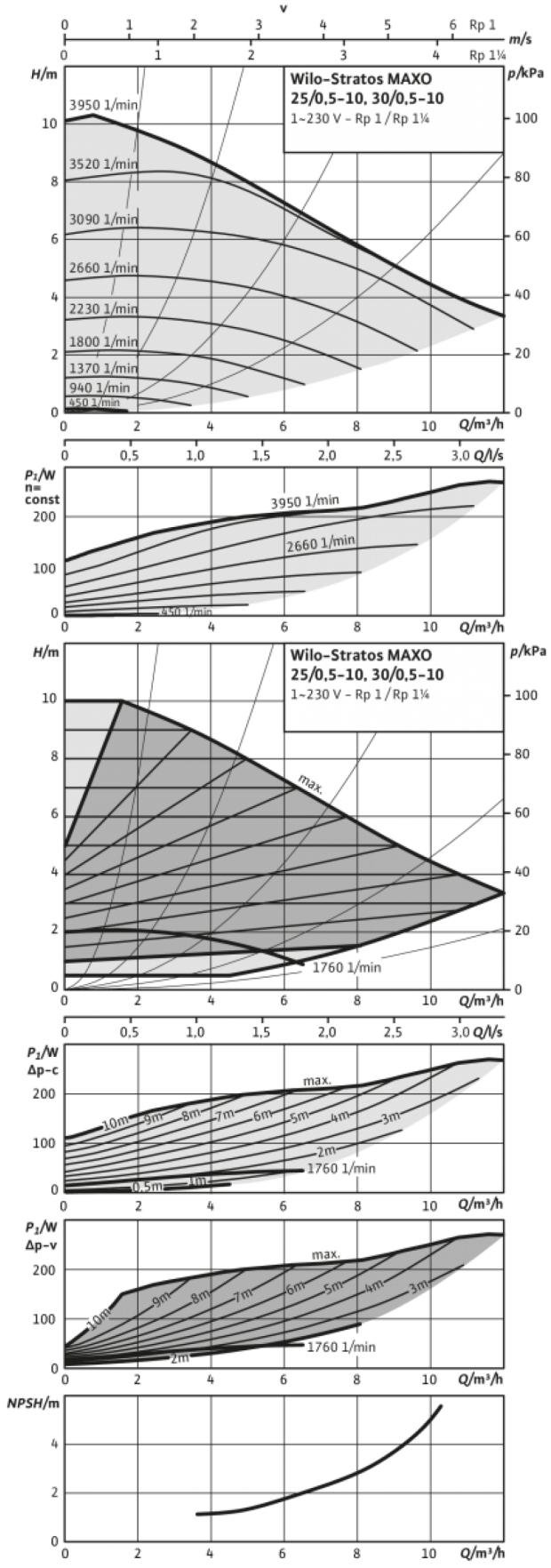
Dimensions and dimensions drawings: Stratos MAXO 30/0,5-10 PN10

Stratos MAXO 30/0,5-10 PN 10



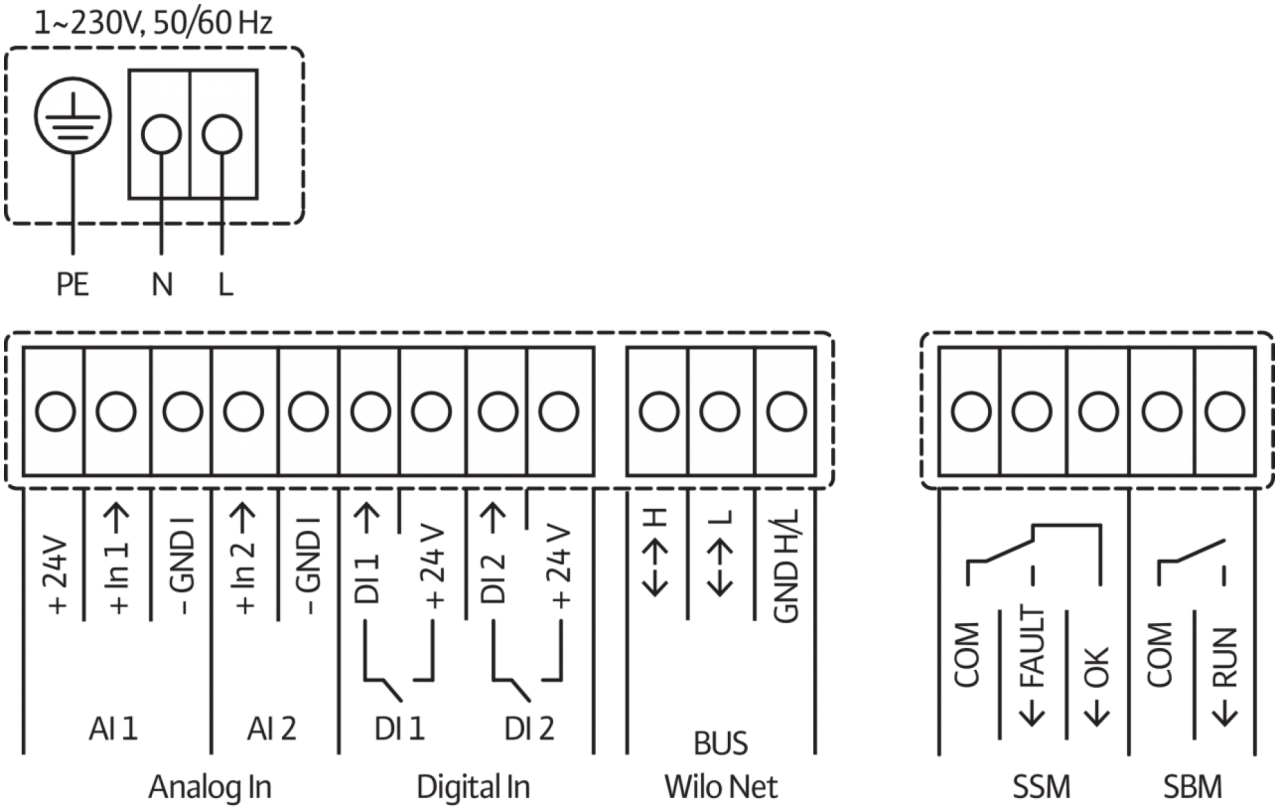
Pump curves: Stratos MAXO 30/0,5-10 PN10

Wilo-Stratos MAXO 25/0,5-10, 30/0,5-10



Wiring diagram: Stratos MAXO 30/0,5-10 PN10

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 ~)