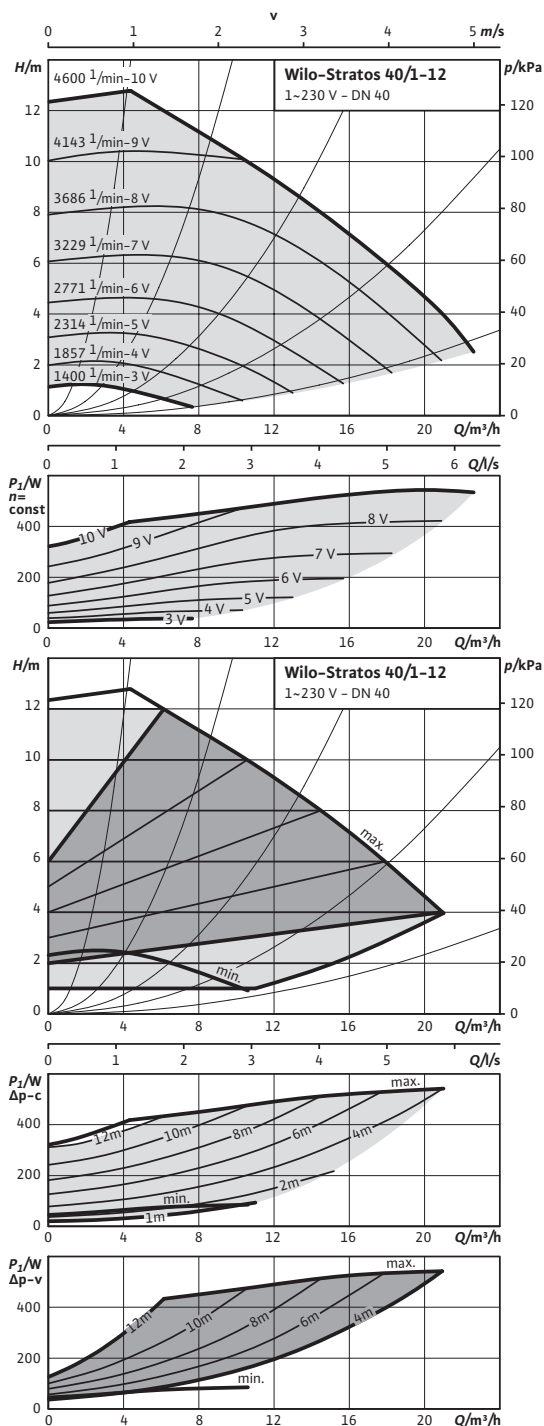


Data sheet: Wilo-Stratos 40/1-12

Pump curves



Approved fluids (other fluids on request)

Heating water (in accordance with VDI 2035)

Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C

-10...+110 °C

Maximum permissible operating pressure

P_{max} 6/10 bar

Pipe connections

Flange

Combination flange PN6/10 (PN 16 flange according to EN 1092-2)

Nominal flange diameter

DN 40

Overall length

l_o 250 mm

Motor/electronics

Energy efficiency index (EEI)

≤ 0.20

Electromagnetic compatibility

EN 61800-3

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Speed control

Frequency converter

Protection class

IP X4D

Insulation class

F

Mains connection

1~230 V, 50/60 Hz

Nominal motor power

P_2 450.00 W

Speed

n 1400 - 4600 rpm

Power consumption

P_1 25 - 550 W

Current consumption

I 0.20 - 2.40 A

Motor protection

integrated

Threaded cable connection

PG 1x7/1x9/1x13.5

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PPS - 40% GF)

Pump shaft

Stainless steel (X30Cr13/X46Cr13)

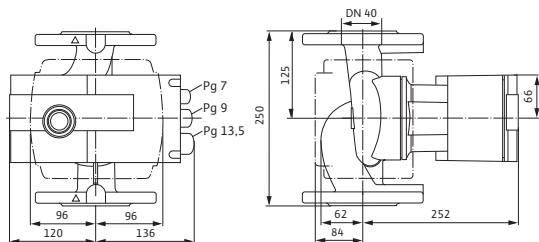
Bearing

Carbon, metal impregnated

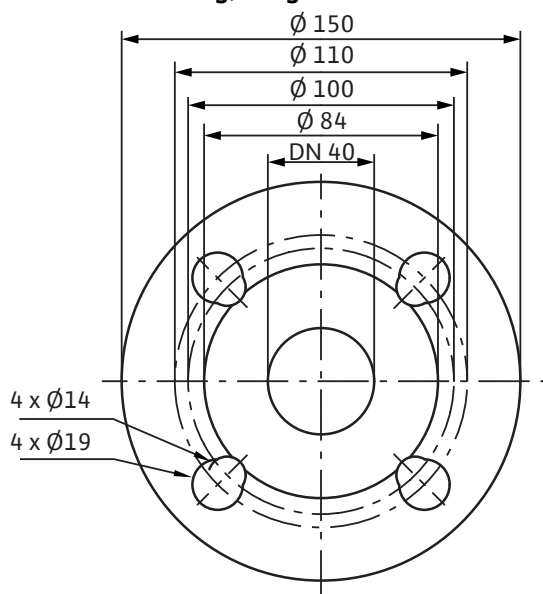
Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Stratos 40/1-12

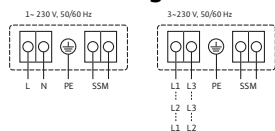
Dimension drawing



Dimension drawing, flange



Terminal diagram



Collective fault signal

(NC contact according to VDI 3814, load capacity 1 A, 250 V ~)

SSM:

For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"

Minimum suction head at 50 / 95 / 110 °C	5 / 12 / 18 m
--	---------------

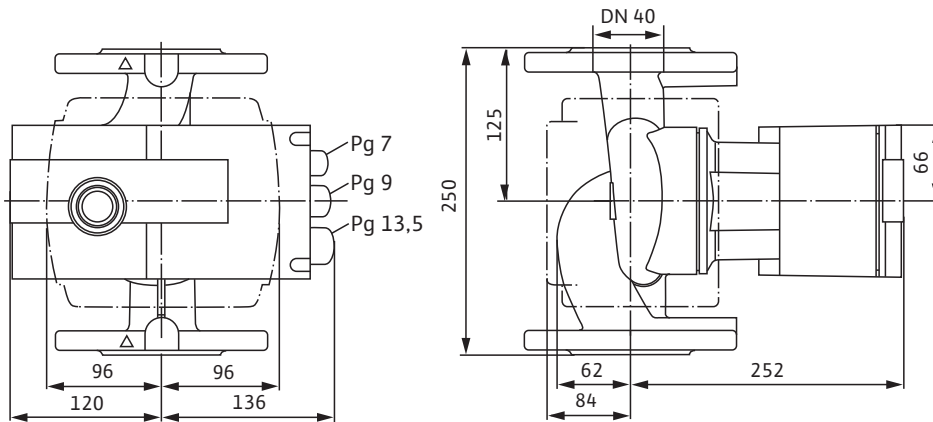
Information for order placements

Make		Wilo
Type		Stratos 40/1-12
Art no.		2090455
Weight approx.	<i>m</i>	14 kg



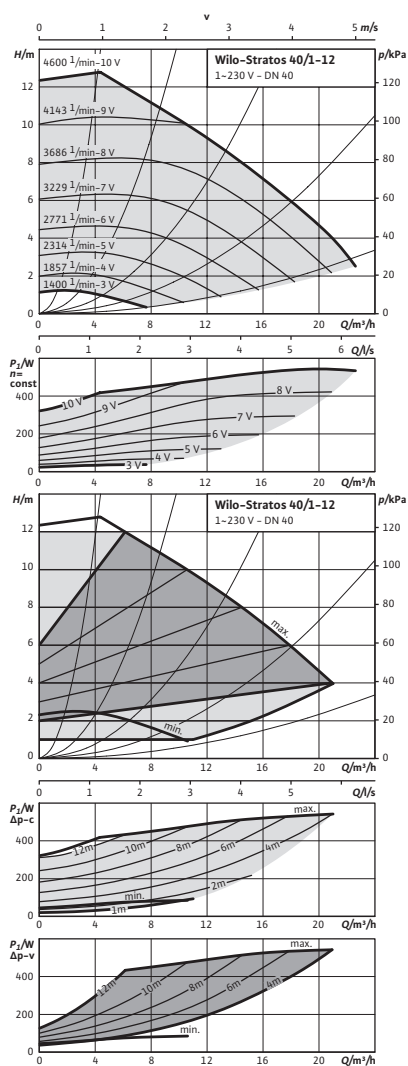
Dimensions and dimension drawings: Wilo-Stratos 40/1-12

Dimension drawing



Pump curves: Wilo-Stratos 40/1-12

Pump curves



Ordering information: Wilo-Stratos 40/1-12

Information for order placements		
Make		Wilo
Type		Stratos 40/1-12
Art no.		2090455
EAN number		4016322994145
Colour		green/black
Minimum order quantity		1
Minimum order quantity unit		PCE
Weight (net)	kg	14
Length (net)	mm	250
Width (net)	mm	256
Height (net)	mm	336
Weight (gross)	kg	15.4
Length (gross)	mm	419
Width (gross)	mm	345
Height (gross)	mm	300
Packaging type		Cardboard box
Packaging property		Transport packaging
Pieces per pallet		20
Number per layer		5

Specification texts: Wilo-Stratos 40/1-12

Wilo-Stratos high-efficiency pump
electronically controlled,

Glandless circulation pump with minimum operating costs, for pipe installation. Can be used for all HVAC applications (-10 °C to +110 °C). With built-in electronic power control for constant/variable differential pressure. Standard-equipped thermal insulation shells. One-button manual operation level as standard, for:

- Pump On/Off
- Selecting the control mode:
- Automatic setback operation (self-learning)
- Setpoint or speed adjustment

Graphical pump display with rotatable display horizontal and vertical module mounting, for display of:

- Operating status
- Control mode
- Differential pressure or rotation speed setpoint
- Fault and alarm signals

Synchronous motor using ECM technology with very high efficiency and high starting torque, automatic deblocking function and built-in full motor protection.

Fault signal light, potential-free collective fault signal, infrared interface for wireless communication with Wilo IR-Monitor/IR-Stick operating and service device.

Plug-in slot for Wilo Stratos IF-modules with interfaces for building automation (BA) or dual pump management (accessories: IF-modules Stratos Modbus, BACnet, LON, CAN, PLR, Ext.Aus, Ext.Min, SBM, Ext.Aus/SBM or DP).

Pump housing made of cast iron with cataphoretic coating, impeller made of glass-fibre reinforced plastic, stainless steel shaft with metal impregnated carbon plain bearings.

For flange-end pumps – flange versions:

- Standard version for pumps DN 32 to DN 65: Combination flange PN 6/10 (flange PN 16 acc. to EN 1092-2) for counter flanges PN 6 and PN 16
- Standard version for pumps DN 80 / DN 100: Flange PN 6 (configured for PN 16 acc. to EN 1092-2) for counter flange PN 6
- Special version for pumps DN 32 to DN 100: Flange PN 16 (acc. to EN 1092-2) for counter flange PN 16

Materials

Pump housing: Grey cast iron (EN-GJL-250)

Impeller: Plastic (PPS – 40% GF)

Pump shaft: Stainless steel (X30Cr13/X46Cr13)

Bearing: Carbon, metal impregnated

Approved fluids (other fluids on request)

Max. volume flow: 21 m³/h

Max. delivery head: 12 m

Pipe connections

Nominal flange diameter: DN 40

Flange: Combination flange PN6/10 (PN 16 flange according to EN 1092-2)

Overall length: 250 mm

Motor/electronics

Energy efficiency index (EEI): ≤ 0.20

Electromagnetic compatibility: EN 61800-3

Specification texts: Wilo-Stratos 40/1-12

Emitted interference: EN 61000-6-3

Interference resistance: EN 61000-6-2

Speed control: Frequency converter

Protection class: IP X4D

Insulation class: F

Mains connection: 1~230 V, 50/60 Hz

Mains frequency: 50/60 Hz

Nominal motor power: 450 W

Speed: 1400 – 4600 rpm

Power consumption 1~230 V: 25 – 550 W

Current at 1~230V: 0.20 – 2.40 A

Motor protection: integrated

Threaded cable connection: 1x7/1x9/1x13.5

Information for order placements

Art no.: 2090455

EAN number: 4016322994145

Weight approx.: 14 kg

Make: Wilo

Type: Stratos 40/1-12

Installation positions: Wilo-Stratos 40/1-12

asim:tr(use.title1)}

asim:tr(use.title2)}

