

Yonos MAXO 40/0,5-4 PN 6/10

Glandless pump circulator

Article number: 2120645

Data sheet

Hydraulic data

Maximum operating pressure *PN*	10 bar
Head max H_{max}	5.5 m
Flow max Q_{max}	12.6 m³/h
Minimum suction head at 50 °C *m*	3 m
Minimum suction head at 95 °C *m*	10 m
Minimum suction head at 110 °C	16 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}	0.09 A
Max current I_{max}	1 A
Rated power P_2	90 W
Min. speed n_{min}	1200 1/min
Max. speed n_{max}	3700 1/min
Power consumption P_1 min	7 W
Power consumption P_1 max	120 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 40
Port-to-port length *L0*	220 mm

Equipment/function

Function

Control mode	Δp-v for variable differential pressure Δp-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

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

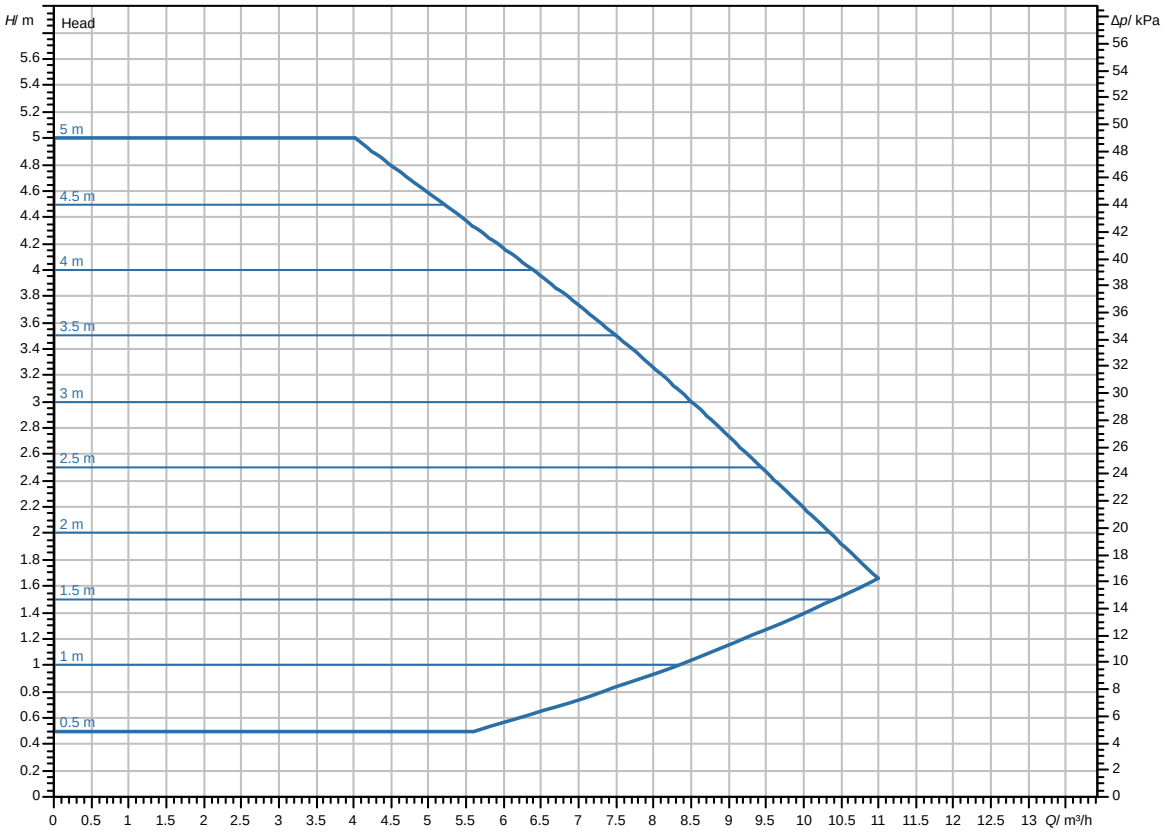
Equipment

Radio standard Bluetooth	no

Connectivity

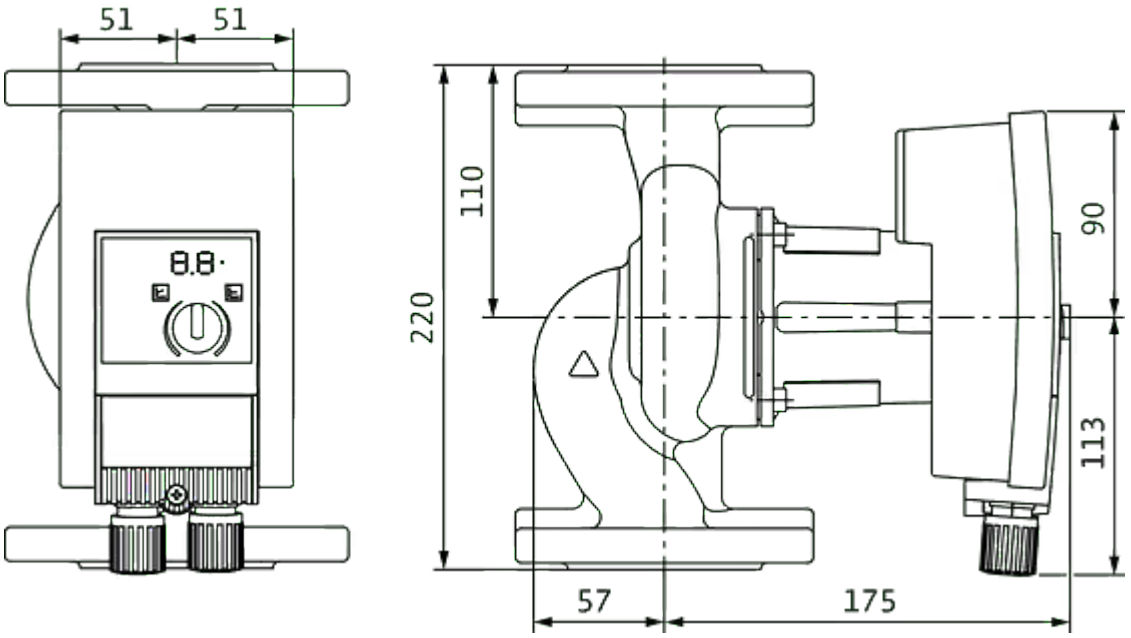
Digital input	Ext. OFF (via accessories Wilo-Connect module Yonos MAXO)
Digital output	SSM SSM/SBM (via accessories Connect module Yonos MAXO)

Pump curves



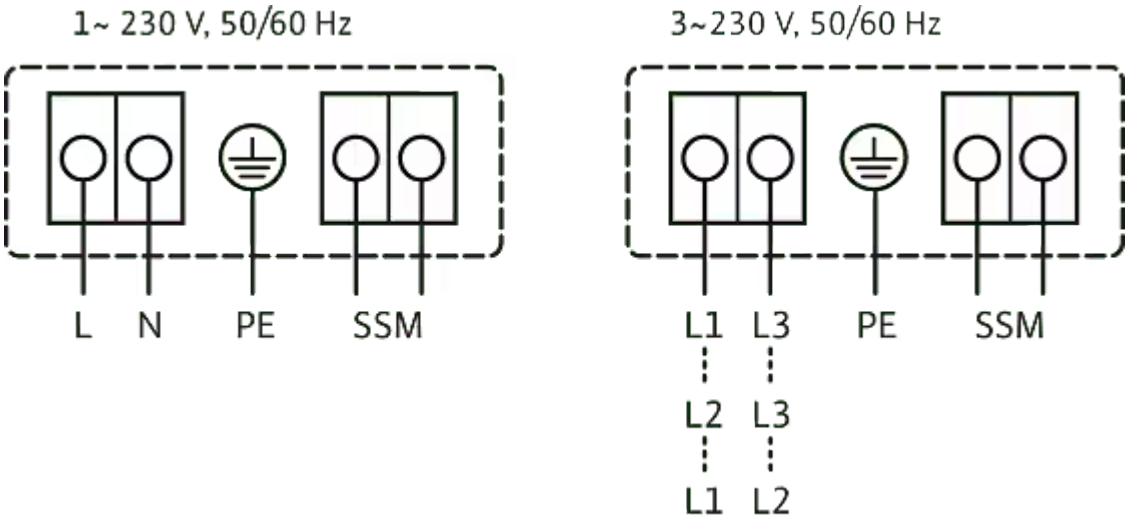
Dimensions and dimensions drawings

Yonos MAXO 40/0,5-4



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 40/0,5-4 PN 6/10
Article number	2120645
EAN number	4048482235929
Colour	green/black
Minimum order quantity	1
Date of sales availability	2013-09-01

Dimension, weight

Length with packaging	400 mm
Length *L*	223 mm
Height with packaging	395 mm
Height *H*	240 mm
Width with packaging	300 mm
Width *W*	150 mm
Gross weight, approx. *m*	10.2 kg
Net weight, approx. *m*	8.6 kg

Packaging

Packaging type	Cardboard box
Packaging property	Transport packaging
Pieces per pallet	16
Number per layer	8

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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Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C
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