

Data sheet: TOP-Z 40/7 (1~230 V, PN 16, GG)

Hydraulic data

Maximum operating pressure PN Delivery head for Qmin $H_{\rm Qmin}$ Max. volume flow $Q_{\rm max}$ Min. fluid temperature for HVAC applications $\dot{T_{\min}}$ Max. fluid temperature for HVAC Max. fluid temperature for HVAC applications $T_{\rm max}$ Min. fluid temperature for drinking water applications $T_{\rm min}$ Max. fluid temperature for drinking water applications T_{max} Max. fluid temperature for drinking water applications in short-time duty (2 hours) $T_{\rm max}$ Min. ambient temperature $T_{\rm min}$ Max. ambient temperature T_{max} Max. permitted total water

6.0 m 16.2 m³/h -20 °C 110 °C 0 110 °C 0°C

40 °C 3.57 mmol/l (20°dH) (3.21 mmol/l (18°dH) for 20/4 + 25/6)

Motor data

Mains connection Rated power P_2 Rated current I_N Max. speed n_{max} Power consumption $P_{1 \text{ min}}$ Power consumption $P_{1 \text{ max}}$ Emitted interference Interference resistance Protection class motor Insulation class Threaded cable connection

Motor protection

1~230 V, 50 Hz 180.0 W 1.62 A 2700 1/min 175.0 W 340.0 W EN 61000-6-3 EN 61000-6-2 IPX4D

2 x PG13.5 External protection WSK

hardness Materials

Pump housing Cast iron PPE-GF30 Stainless steel Shaft Bearing Carbon, synthetic resinimpregnated

Information for order placements

Brand Product description EAN number Article number Net weight, approx. *m* Gross weight, approx. m Length with packaging Height with packaging Width with packaging

Packaging property Packaging type Minimum order quantity Wilo TOP-Z 40/7 (1~230 V, PN 16, GG) 4016322469254 2071094 12 kg 12.4 kg 350 mm 260 mm Transport packaging Cardboard box

Installation dimensions

Pipe connection on the suction Pipe connection on the pressure side *DNd* Port-to-port length L0

DN 40 **DN 40**

250 mm

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Tender text: TOP-Z 40/7 (1~230 V, PN 16, GG)

This circulator is suitable only for drinking water.

Can be used for domestic hot water circulation systems in the industry and building services.

Maintenance-free glandless circulator with threaded or flange connection, pre-selectable speed stages for power adjustment.

Equipment and function

- → Manual power adjustment with 3 speed stages
- Pumps with 1~ motor:
 - P2 up to 90 W: internal protection against unacceptably high winding temperatures
 - → P2 = 180 W: Full motor protection with thermal winding contacts in conjunction with tripping unit
- Pumps with 3~ motor:
 - P2 up to 90 W: internal protection against unacceptably high winding temperatures
 - → P2 ≥ 180 W: Full motor protection with integrated trip electronics
- → Fault signal light
- Contact for collective fault signal

- Direction of rotation signal lamp

 Mains connection 3-, 230 V with optional switching plug

 Pump housing in red brass or grey cast iron (stainless steel depending on type)

 PN 6/PN 10 combination flange (for DN 40 to DN 65)

- Thermal insulation shells
 Additional functions by retrofittable Protect Module C:
 - SSM fault signal as potential-free NC contact

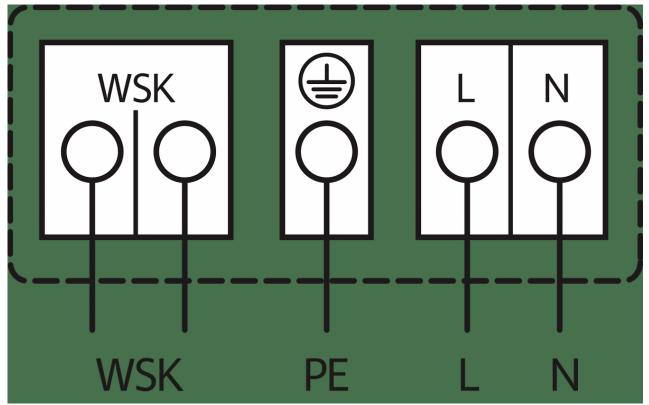
 - → SBM run signal as potential-free NO contact → "Overriding Off" control input via external potential-free contact (NC contact)
 - Blocking detection
 - Full motor protection with tripping unit
 - Fault acknowledgement
- 🔿 Dual pump management (two single pumps installed in parallel) Main/standby operation (automatic fault-actuated switchover/time-sensitive pump

Operating data		Motor data	
Fluid media Fluid temperature <i>T</i> Ambient temperature <i>T</i> Maximum operating pressure <i>PN</i> Max. permitted total water hardness	Water -20 °C 0 °C 16 bar 3.57 mmol/l (20°dH) (3.21 mmol/l (18°dH) for 20/4 + 25/6)	Emitted interference Interference resistance Mains connection Power consumption $P_{1\mathrm{max}}$ Max. speed n_{max} Rated current I_{N} Protection class motor Threaded cable connection	EN 61000-6-3 EN 61000-6-2 1-230 V, 50 Hz 340.0 W 2700 1/min 1.62 A IPX4D 2 x PG13.5
Materials		Installation dimensions	
Pump housing Impeller Shaft	Cast iron PPE-GF30 Stainless steel	Pipe connection on the suction side <i>DNs</i> Pipe connection on the pressure	DN 40 DN 40
Bearing	Carbon, synthetic resin- impregnated	side <i>DNd</i> Port-to-port length <i>L0</i>	250 mm
Information for order placements		_	
Brand Product description Net weight, approx. <i>m</i> Article number	Wilo TOP-Z 40/7 (1~230 V, PN 16, GG) 12 kg 2071094		

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Wiring diagram: TOP-Z 40/7 (1~230 V, PN 16, GG)



Mains connection, 1~230 V, 50 Hz

WSK = thermal winding contact

Full motor protection at all speed stages with optional tripping unit

SK 602N/SK 622N or other switchgear/control devices with WSK connection option

Triggering: External tripping at switchgear/control device

Reset: Automatic fault acknowledgement after cooling off of the motor

Automatic

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