

Data sheet: TOP-Z 40/7 (1~230 V, PN 6/10, RG)

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 hardness

10 bar 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

Materials

Brand

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

Information for order placements

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 6/10, RG) 4016322685487

2046637 13 kg 14.2 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 6/10, RG)

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

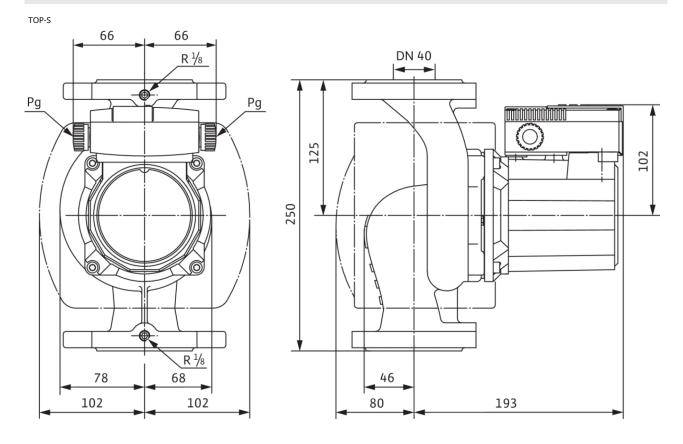
 - → SBM run signal as potential-free NO contact → "Overriding Off" control input via external potential-free contact (NC contact)
 - Blocking detection
 - Full motor protection with tripping unit
 - Fault acknowledgement
- 🔿 Dual pump management (two single pumps installed in parallel) Main/standby operation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

Operating data		Motor data	
Fluid media	Water	Emitted interference	EN 61000-6-3
Fluid temperature T	-20 °C	Interference resistance	EN 61000-6-2
Ambient temperature T	0 °C	Mains connection	1~230 V, 50 Hz
Maximum operating pressure PN	10 bar	Power consumption $P_{1 \text{ max}}$	340.0 W
Max. permitted total water	3.57 mmol/l (20°dH) (3.21 mmol/l	Max. speed n_{max}	2700 1/min
hardness	(18°dH) for 20/4 + 25/6)	Rated current I_N	1.62 A
		Protection class motor	IPX4D
		Threaded cable connection	2 x PG13.5
Materials		Installation dimensions	
Pump housing	Bronze	Pipe connection on the suction	DN 40
Impeller	PPE-GF30	side <i>DNs</i>	
Shaft	Stainless steel	Pipe connection on the pressure	DN 40
Bearing	Carbon, synthetic resin-	side <i>DNd</i>	
	impregnated	Port-to-port length <i>L0</i>	250 mm
Information for order placements		_	
Brand	Wilo		
Product description	TOP-Z 40/7 (1~230 V, PN 6/10, RG)		
Net weight, approx. <i>m</i>	13 kg		
Article number	2046637		

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Dimensions and dimensions drawings: TOP-Z 40/7 (1~230 V, PN 6/10, RG)

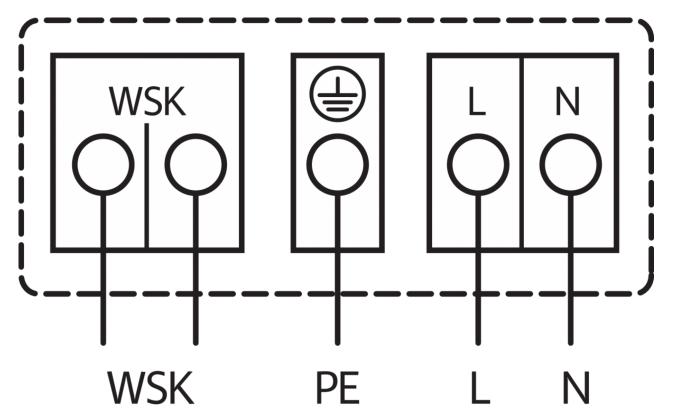




Pump curves: TOP-Z 40/7 (1~230 V, PN 6/10, RG)



Wiring diagram: TOP-Z 40/7 (1~230 V, PN 6/10, RG)



Mains connection, 1~230 V, 50 Hz

WSK = thermal winding contact

Full motor protection at all speed stages with optional tripping unit $% \left(1\right) =\left(1\right) \left(1$

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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