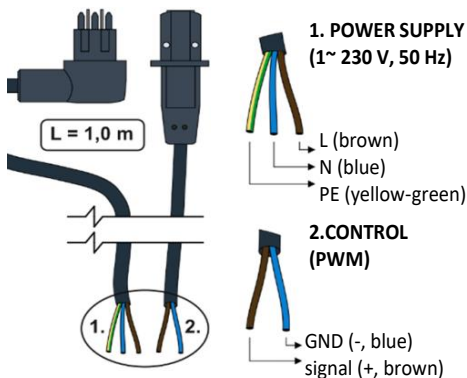


S1 Solar 1 Pump Station, WILO, STDC E ext., 2-12 l/min, G 3/4"



WILO Yonos Para pump connection



Main Features	
Application	for solar circuits
Description	consists of WILO Yonos PARA ST 25/7 pump, STDC E solar controller, insulation, ball valve with thermometer, flow rate indicator and safety valve with pressure gauge
Installation	solar return line
Working fluid	water-glycol mixture (max. 1:1)
Code	14870

Pump Station Data	
Fluid operating temperature	0 - 110 °C
Max. working pressure	6 bar
Max. power input	45 W
Max. head	7,3 m
Max. ambient temperature	40 °C
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	320 x 460 x 150 mm
Total weight	4,95 kg
Connection	2 x G 3/4" M

Pump Station Energy Data *	
Psol,pump ¹	22 W
Psol,standby ²	1,5 W
Qaux ³	57 kWh/year

* as per Commission Delegated Regulation 811/2013
1) pump power consumption, 2) standby power consumption, 3) auxiliary electricity consumption

WILO Yonos PARA ST 25/7 circulation pump	
Electric Data	
Power supply	230 V, 50 Hz
Power input (min./max.)	3 / 45 W
Current (min./max.)	0,03 / 0,44 A
IP rating	IPX4D
Motor protection	integrated

Operating Data	
Fluid operating temperature	-10 - 110 °C
Max. working pressure	10 bar
Max. speed	4660 rpm
Energy Efficiency Index	≤ 0,20
Max. ambient temperature	55 °C
Max. relative humidity	resistant to condensing humidity

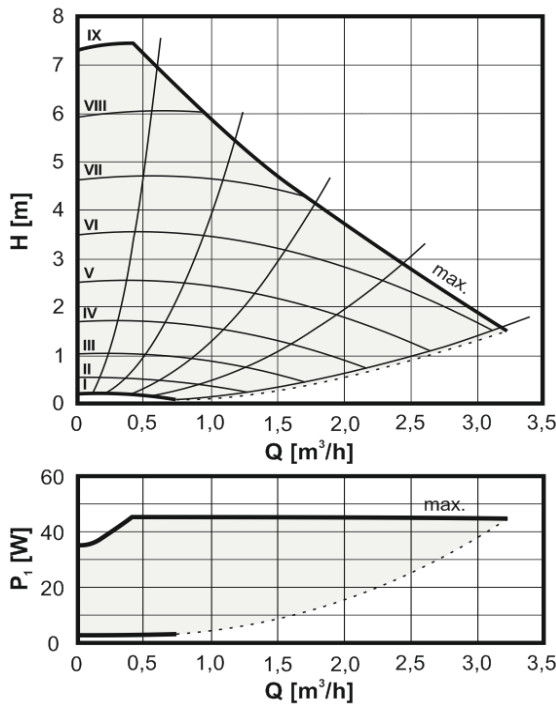
Min. pressures at pump suction port to avoid cavitation	
50 / 95 / 110 °C	0,5 / 4,5 / 11 mH ₂ O

Pump Control Data	
Control signal	PWM
Signal frequency range	0,1 to 5 kHz (1 kHz nominal)
Signal amplitude	3,6 V (3 mA) to 24 V (7,5 mA)

Pump power supply cables and PWM control cables are included in supply.

S1 Solar 1 Pump Station, WILO, STDC E ext., 2-12 l/min, G 3/4"

Pump performance curves



	n [1/min]	PWM [%]
I	800	15
II	1283	25
III	1765	35
IV	2248	45
V	2730	55
VI	3213	65
VII	3695	75
VIII	4178	85
IX	4660	≥ 95



Controller STDC E

Electric Data

Power supply	230 V, 50 - 60 Hz
Power input	~ 1,5 VA
Inernal fuse	2 A / 250 V, slow blow
IP rating	IP40
Protection class	II

Ambient Conditions

Ambient working temperature	0 - 40 °C
Working air humidity	max. 85 % at 25 °C

Inputs and Outputs

Mechanical relay	1 x (460 VA for AC1/460 W for AC3)
PWM	1 x (10 V voltage, 1 kHz frequency)
Pt 1000	3 x (measurement range -40 to 300 °C)

Flow rate indicator

Description	for flow rate indication and system filling/draining through ball valves (2 x G 3/4" M)
Fluid operating temperature	120 °C (max. 160 °C po dobu 20 s)
Max. working pressure	10 bar
Measurable flow rate range	2 - 12 l/min
Connection	G 3/4" M x G 6/4" F

Safety valve

Opening pressure	6 bar
Max. working temperature	-20 - 160 °C
Connection	G 1/2" F x G 3/4" F