



ATAC Solutions Ltd is a leading environmental engineering company based in Maidstone, United Kingdom.

ATAC Solutions is known for its state-of-the-art liquid collection fleet and its expertise in providing bespoke turnkey wastewater process solutions.

With a focus on sustainability and accreditation in ISO 9001 & ISO 14001, the company serves domestic and industrial clients across the South-East and London.



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Axiom Water companies

Series description: Wilo-TOP-STG



Design

Glandless circulation pump with screwed connection or flange connection.

Application

Primary circuits of solar and geothermal systems

Type key

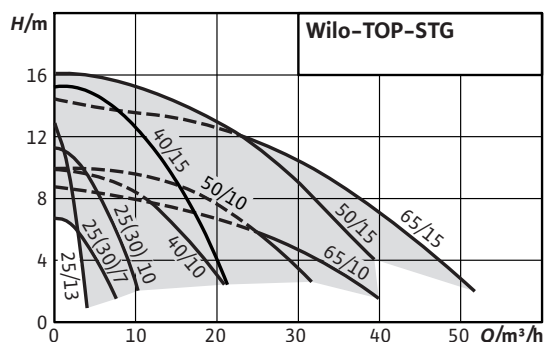
Example:	TOP-STG 40/10
TOP-STG	Standard pump (screw-end pump or flange-end pump)
40/	Nominal connection diameter
10	Nominal delivery head [m] at $Q = 0 \text{ m}^3/\text{h}$

Special features/product advantages

- Can be used in solar and geothermal systems from 20°C to $+110^\circ\text{C}$
- Pump housing with cataphoretic (KTL) coating to prevent corrosion due to condensation formation
- Manual power adjustment with 2 or 3 speed stages (depending on type)
- Simple installation due to PN 6/PN 10 combination flange (for DN 40 to DN 65)

Technical data

- Permissible temperature range at max. ambient temperature $+40^\circ\text{C}$: -20°C to $+110^\circ\text{C}$, for short periods (2 h) to $+130^\circ\text{C}$
- Mains connection:
 - 1~230 V, 50 Hz (depending on type)
 - 3~400 V, 50 Hz
 - 3~230 V, 50 Hz (with optional switching plug)
- Protection class IP X4D
- Screwed connection or flange connection (depending on type) Rp 1 to DN 65
- Max. operating pressure of standard version: 6/10 bar or 6 bar (special version: 10 bar)



Equipment/function

Operating modes

- Speed-stage switching

Manual functions

- Setting the speed stages: 2 or 3 speed stages (depending on type)

Automatic functions

- Full motor protection with integrated trip electronics (standard equipment for 1~ or 3~ pumps with $P_2 \geq 180 \text{ W}$, optional for all types with Wilo-Protect-Module C)

External control functions

- "Overriding Off" control input (optional for all types with Wilo-Protect Module C)

Signal and display functions

- Individual/collective fault signal (potential-free NC contact) (optional for all types with Wilo-ProtectModule C)
- Collective fault signal (potential-free NC contact) (standard equipment for 1~ or 3~ pumps with $P_2 \geq 180 \text{ W}$, optional for all types with Wilo-Protect-Module C)
- Individual run signal (potential-free NO contact) (optional for all types with Wilo-ProtectModule C)
- Fault signal light (standard equipment for 1~ or 3~ pumps with $P_2 \geq 180 \text{ W}$, optional for all types with Wilo-Protect-Module C)
- Direction of rotation control light (only for 3~pumps)

Dual pump management (double pump or 2 x single pumps)

- Main/standby mode (automatic fault-actuated switchover/time-dependent pump cycling): optional for all types with Wilo-Protect Module C

Equipment

- In flange pumps: Flange versions
 - Standard version for pumps DN 40 to DN 65: Combination flange PN 6/10 (flange PN 16 according to EN 1092-2) for counter flanges PN 6 and PN 16,
 - Special version for pumps DN 40 to DN 65: Flange PN 16 (in accordance with EN 1092-2) for counter flange PN 16,
- Cable inlet possible from both sides (only for 1~ pumps and 3~ pumps with $P_2 \geq 180 \text{ W}$)

Materials

- Pump housing: Grey cast iron
- Impeller: Plastic
- Shaft: Stainless steel
- Bearing: Carbon, metal impregnated

Scope of delivery

- Pump
- Including gaskets for threaded connection
- Washers for flange screws (for nominal connection diameters DN 40 DN 65)
- Installation and operating instructions

Accessories

- Screwed connections for threaded connection
- Adapter fittings
- For pumps 3~400 V:
 - Switching plug 3~230 V, 50 Hz
 - Wilo-ProtectModule C, 3~400 V
- For pumps 1~230 V:
 - Wilo-ProtectModule C, 1~230 V

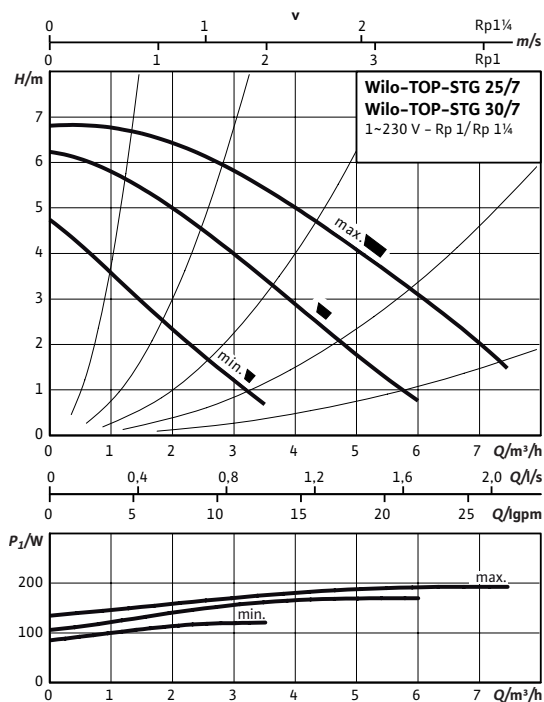


Series description: Wilo-TOP-STG

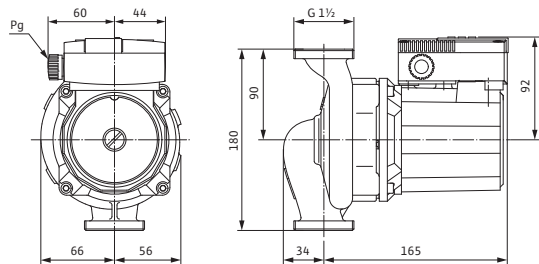
- Thermal insulation shells

Data sheet: Wilo-TOP-STG 25/7 (1~230 V, PN 10)

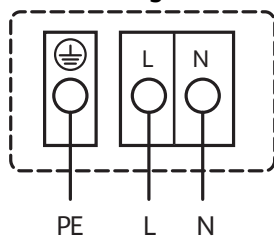
Pump curves Single-phase current



Dimension drawing



Terminal diagram



Mains connection 1~230 V, 50 Hz

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of motor voltage

Reset: Automatic after motor has cooled down

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

 P_2

90 W

Speed

 n

1800 / 2300 / 2600 rpm

Power consumption 1~230 V

 P_1

120 / 175 / 195 W

Current at 1~230V

 I

0.62 / 0.87 / 0.93 A

Capacitor

5.0 µF / 400 VDB

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

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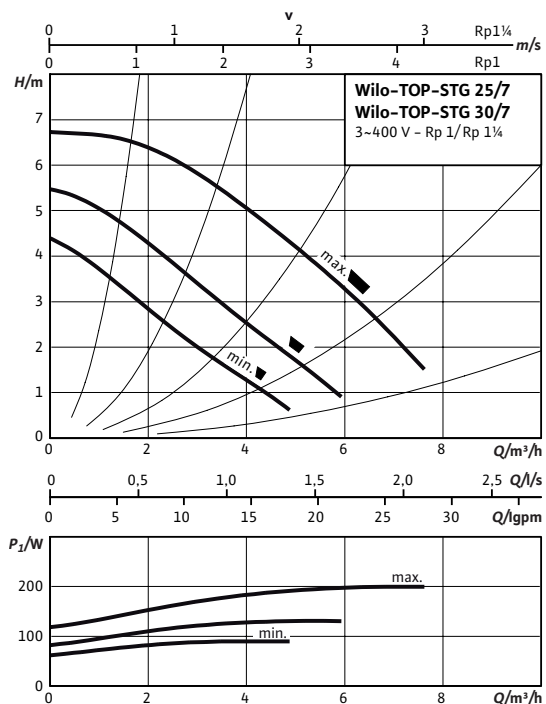
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Art no.	2131672	
Weight approx.	<i>m</i>	4.80 kg

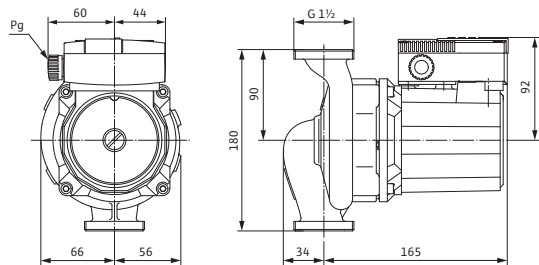
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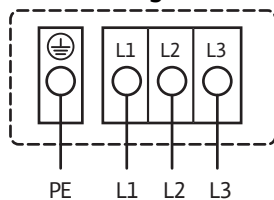
Pump curves Three-phase current



Dimension drawing



Terminal diagram



Mains connection 3~400 V, 50 Hz

3~230 V, 50 Hz (with optional switching plug 3~230 V)

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of a motor phase

Reset: Disconnect mains voltage, allow motor to cool down,
switch mains voltage back on again

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

90 W

Speed

 n

1750 / 2100 / 2600 rpm

Power consumption

 P_1

90 / 125 / 195 W

Current at 3~400V

 I

0.17 / 0.24 / 0.45 A

Current at 3~230V

 I

0.29 / 0.42 / 0.77 A

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

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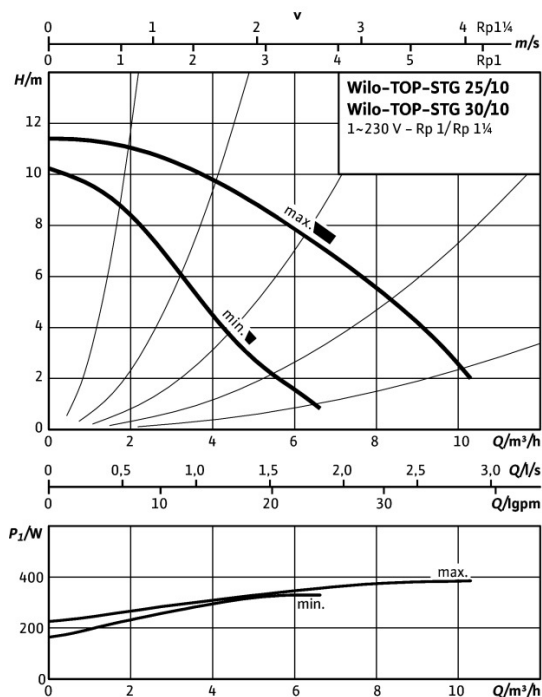
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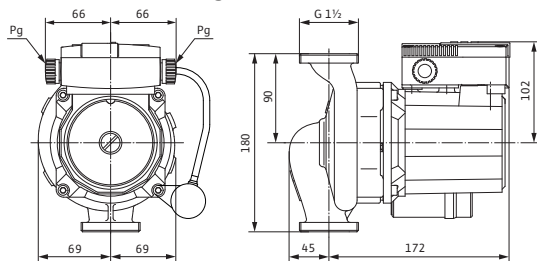
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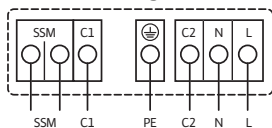
Pump curves Single-phase current



Dimension drawing



Terminal diagram



Mains connection 1~230 V, 50 Hz

Full motor protection with integrated trip electronics in terminal box for all speed stages

Triggering: All-pole shutdown of motor by integrated trip electronics

Reset: Manual reset at terminal box necessary

Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~

For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

P_2

180 W

Speed

n

2400 / 2700 rpm

Power consumption 1~230 V

P_1

335 / 390 W

Current at 1~230V

I

1.72 / 1.90 A

Capacitor

8.0 µF / 400 VDB

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

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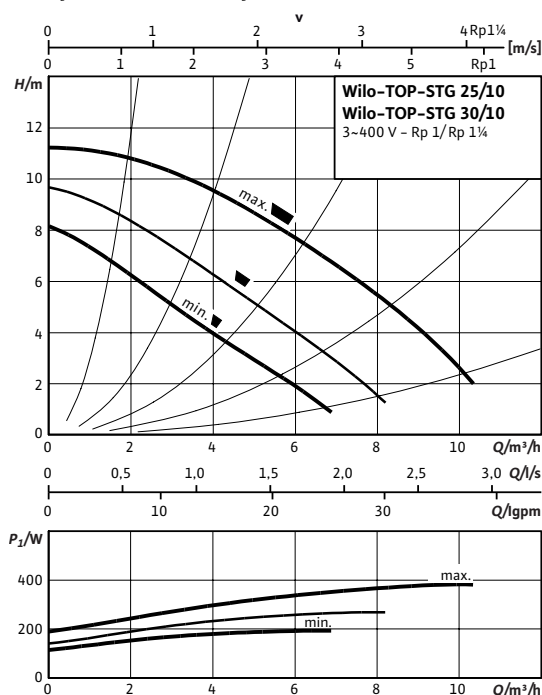
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Type	TOP-STG 25/10	
Art no.	2131674	
Weight approx.	<i>m</i>	6.20 kg

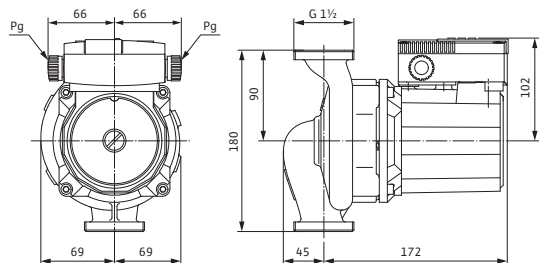
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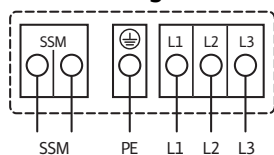
Pump curves Three-phase current



Dimension drawing



Terminal diagram



Mains connection 3~400 V, 50 Hz

3~230 V, 50 Hz (with optional switching plug 3~230 V)

Full motor protection with integrated trip electronics in terminal box for all speed stages

Triggering: All-pole motor deactivation integrated trip electronics

Reset: Manual reset at terminal box necessary

Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~

For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

180 W

Speed

 n

1950 / 2250 / 2650 rpm

Power consumption

 P_1

195 / 270 / 380 W

Current at 3~400V

 I

0.35 / 0.48 / 0.78 A

Current at 3~230V

 I

0.61 / 0.84 / 1.35 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

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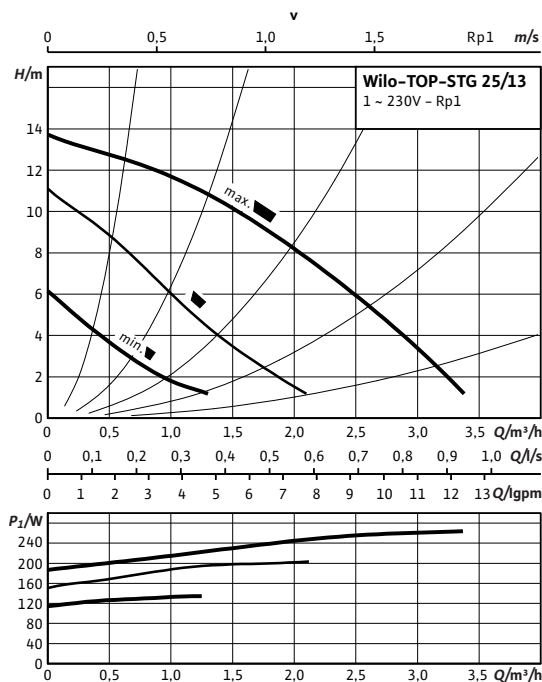
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Type	TOP-STG 25/10	
Art no.	2131757	
Weight approx.	<i>m</i>	6.20 kg

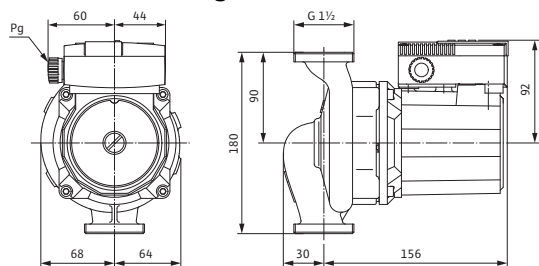
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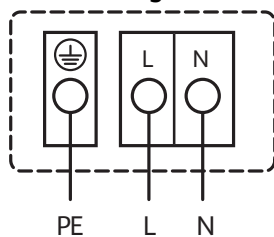
Pump curves Single-phase current



Dimension drawing



Terminal diagram



Mains connection 1~230 V, 50 Hz

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of motor voltage

Reset: Automatic after motor has cooled down

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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

P_2

100 W

Speed

n

1800 / 2380 / 2680 rpm

Power consumption 1~230 V

P_1

130 / 200 / 260 W

Current at 1~230V

I

0.65 / 0.96 / 1.24 A

Capacitor

6.0 µF / 400 VDB

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PPE - 30% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

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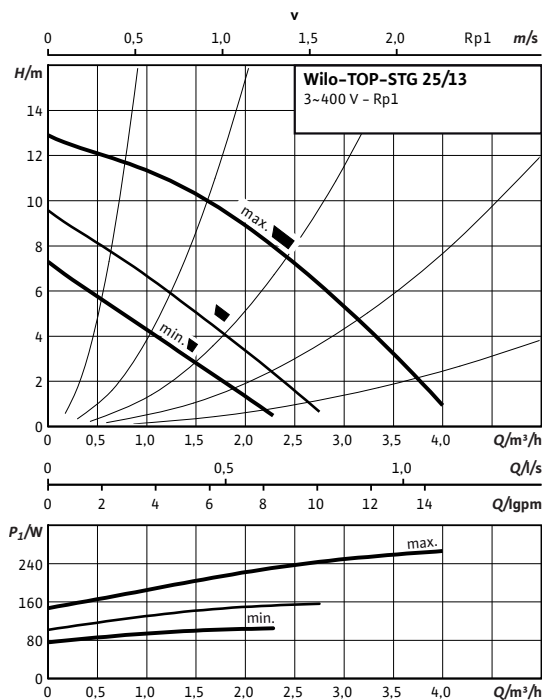
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Art no.	2131673	
Weight approx.	<i>m</i>	5.20 kg

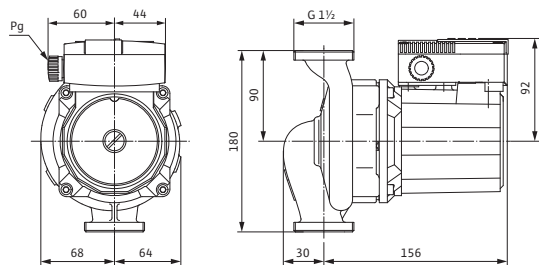
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Data sheet: Wilo-TOP-STG 25/13 (3~400/230 V, PN 10)

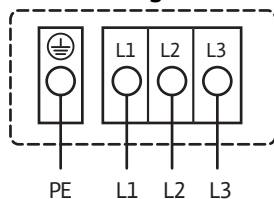
Pump curves Three-phase current



Dimension drawing



Terminal diagram



Mains connection 3~400 V, 50 Hz

3~230 V, 50 Hz (with optional switching plug 3~230 V)

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of a motor phase

Reset: Disconnect mains voltage, allow motor to cool down,

switch mains voltage back on again

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1

Thread

G 1½

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

100 W

Speed

 n

1750 / 2380 / 2680 rpm

Power consumption

 P_1

105 / 160 / 265 W

Current at 3~400V

 I

0.19 / 0.28 / 0.53 A

Current at 3~230V

 I

0.33 / 0.48 / 0.92 A

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PPE – 30% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

Wilo



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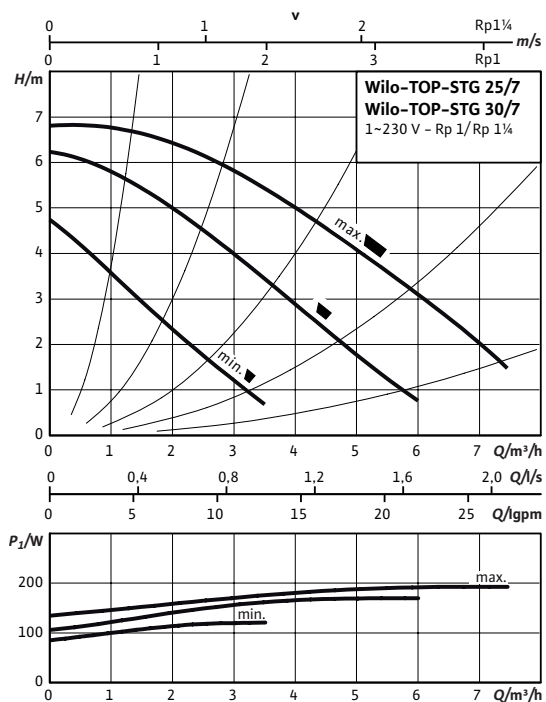
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Weight approx.	<i>m</i>	5.20 kg

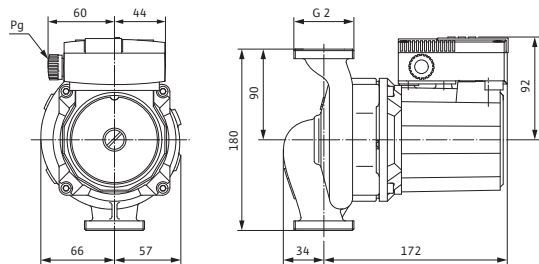
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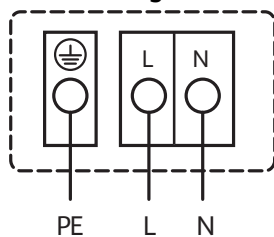
Pump curves Single-phase current



Dimension drawing



Terminal diagram



Mains connection 1~230 V, 50 Hz

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of motor voltage

Reset: Automatic after motor has cooled down

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1 1/4

Thread

G 2

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

 P_2

90 W

Speed

 n

1800 / 2300 / 2600 rpm

Power consumption 1~230 V

 P_1

120 / 175 / 195 W

Current at 1~230V

 I

0.62 / 0.87 / 0.93 A

Capacitor

5.0 µF / 400 VDB

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

Wilo



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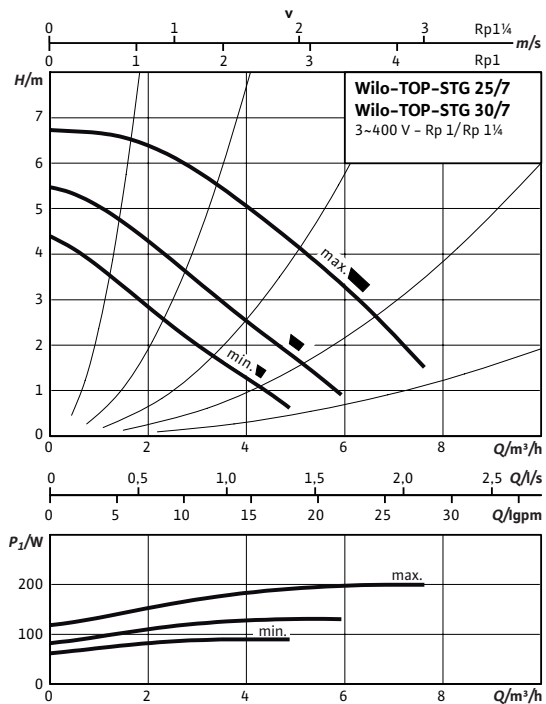
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Type	TOP-STG 30/7	
Art no.	2131675	
Weight approx.	<i>m</i>	5 kg

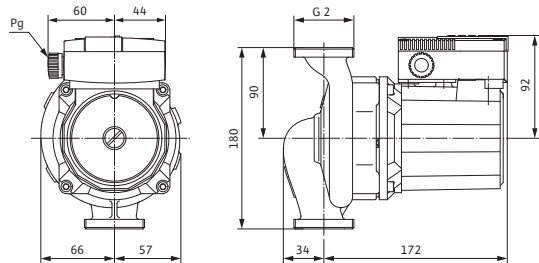
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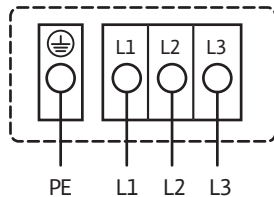
Pump curves Three-phase current



Dimension drawing



Terminal diagram



Mains connection 3~400 V, 50 Hz

3~230 V, 50 Hz (with optional switching plug 3~230 V)

internal protection against unacceptably high winding temperatures

Triggering: Internal interruption of a motor phase

Reset: Disconnect mains voltage, allow motor to cool down,
switch mains voltage back on again

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

 P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1¼

Thread

G 2

Overall length

 l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

90 W

Speed

 n

1750 / 2100 / 2600 rpm

Power consumption

 P_1

90 / 125 / 195 W

Current at 3~400V

 I

0.17 / 0.24 / 0.45 A

Current at 3~230V

 I

0.29 / 0.42 / 0.77 A

Threaded cable connection

PG

1x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

Wilo



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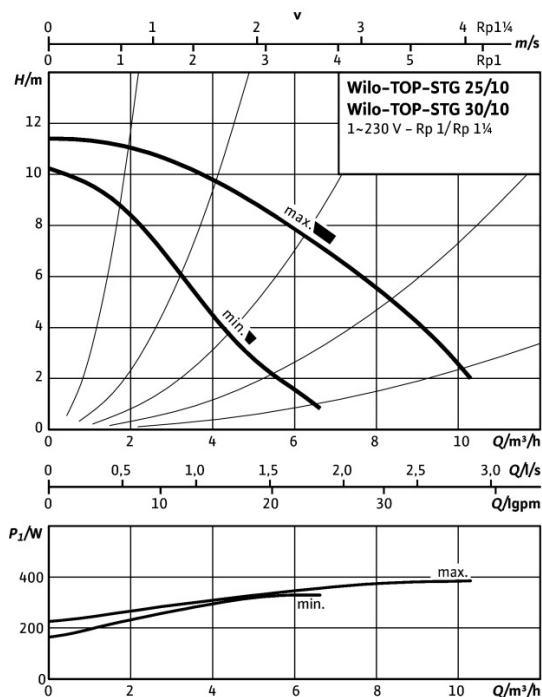
Data sheet: Wilo-TOP-STG 30/7 (3~400/230 V, PN 10)

Type	TOP-STG 30/7	
Art no.	2131758	
Weight approx.	<i>m</i>	5 kg

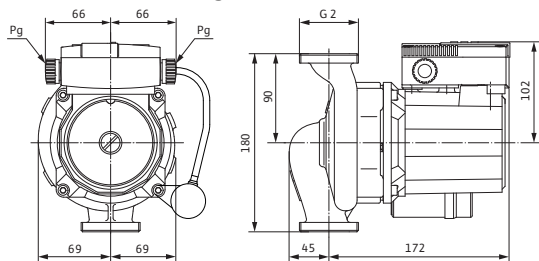
• = available, = not available

Data sheet: Wilo-TOP-STG 30/10 (1~230 V, PN 10)

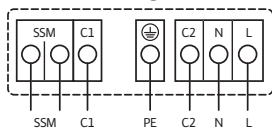
Pump curves Single-phase current



Dimension drawing



Terminal diagram



Mains connection 1~230 V, 50 Hz

Full motor protection with integrated trip electronics in terminal box for all speed stages

Triggering: All-pole shutdown of motor by integrated trip electronics

Reset: Manual reset at terminal box necessary

Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~

For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1¼

Thread

G 2

Overall length

l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

P_2

180 W

Speed

n

2400 / 2700 rpm

Power consumption 1~230 V

P_1

335 / 390 W

Current at 1~230V

I

1.72 / 1.90 A

Capacitor

8.0 µF / 400 VDB

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

Wilo



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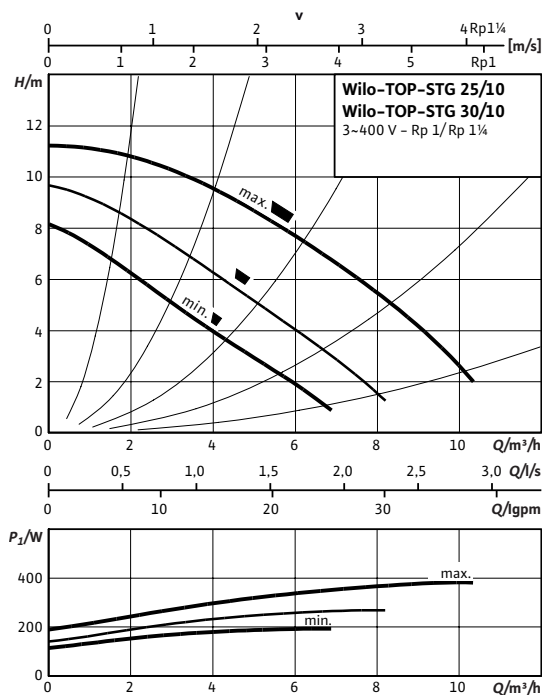
Data sheet: Wilo-TOP-STG 30/10 (1~230 V, PN 10)

Type	TOP-STG 30/10	
Art no.	2131676	
Weight approx.	<i>m</i>	6.30 kg

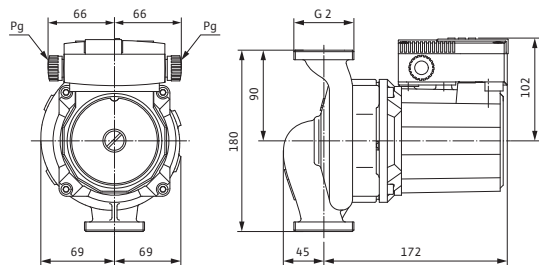
• = available, = not available

Data sheet: Wilo-TOP-STG 30/10 (3~400/230 V, PN 10)

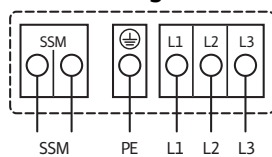
Pump curves Three-phase current



Dimension drawing



Terminal diagram



Mains connection 3~400 V, 50 Hz

3~230 V, 50 Hz (with optional switching plug 3~230 V)

Full motor protection with integrated trip electronics in terminal box for all speed stages

Triggering: All-pole motor deactivation integrated trip electronics

Reset: Manual reset at terminal box necessary

Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~

For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °C

Maximum permissible operating pressure

P_{max}

10 bar

Pipe connections

Threaded pipe union

Rp 1¼

Thread

G 2

Overall length

l_o

180 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

P_2

180 W

Speed

n

1950 / 2250 / 2650 rpm

Power consumption

P_1

195 / 270 / 380 W

Current at 3~400V

I

0.35 / 0.48 / 0.78 A

Current at 3~230V

I

0.61 / 0.84 / 1.35 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-200)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m

Information for order placements

Make

Wilo

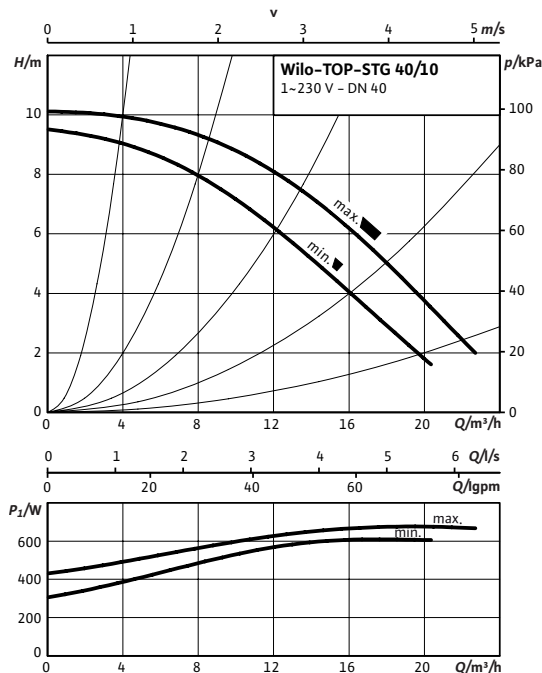
Data sheet: Wilo-TOP-STG 30/10 (3~400/230 V, PN 10)

Type	TOP-STG 30/10	
Art no.	2131778	
Weight approx.	<i>m</i>	6.30 kg

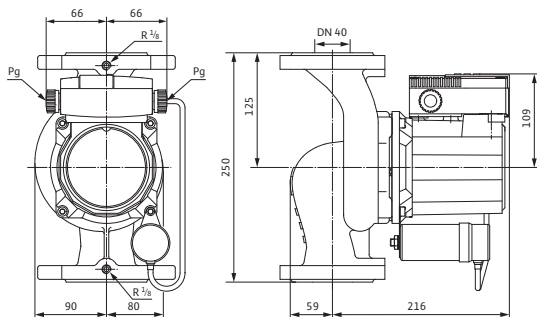
• = available, = not available

Data sheet: Wilo-TOP-STG 40/10 (1~230 V, PN 6/10)

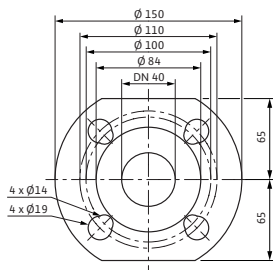
Pump curves Single-phase current



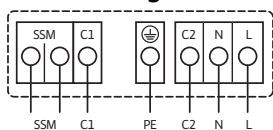
Dimension drawing



Dimension drawing, flange



Terminal diagram



Mains connection 1~230 V, 50 Hz

Full motor protection with integrated trip electronics in terminal box for all speed stages

Triggering: All-pole shutdown of motor by integrated trip electronics

Reset: Manual reset at terminal box necessary

Load capacity of the wiring must be checked according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~

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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °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

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

 P_2

350 W

Speed

 n

2600 / 2800 rpm

Power consumption 1~230 V

 P_1

610 / 680 W

Current at 1~230V

 I

3.18 / 3.47 A

Capacitor

16.0 µF / 400 VDB

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

0.5 / 5 / 11 / 0 m



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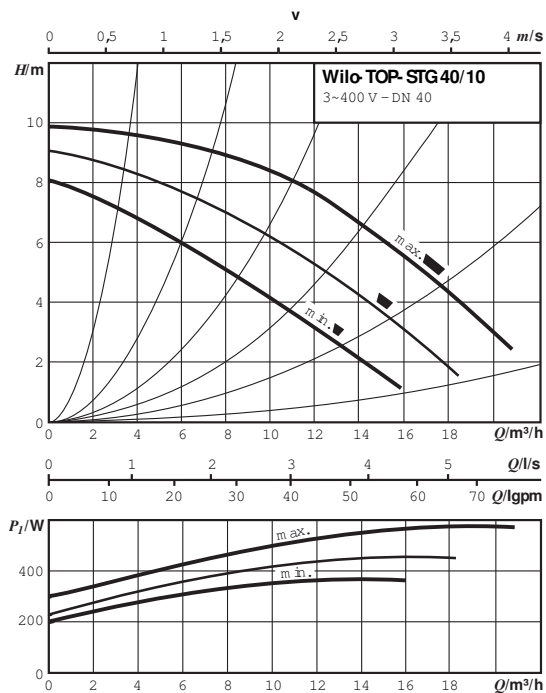
Data sheet: Wilo-TOP-STG 40/10 (1~230 V, PN 6/10)

Information for order placements		
Make	Wilo	
Type	TOP-STG 40/10	
Art no.	2131749	
Weight approx.	<i>m</i>	14.70 kg

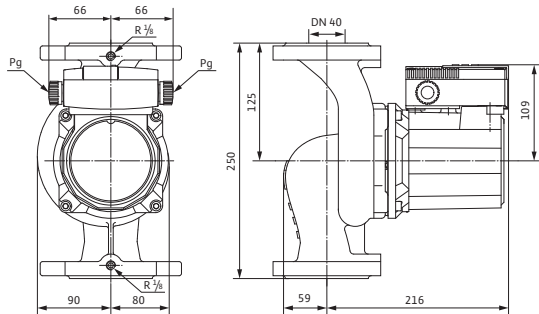
• = available, = not available

Data sheet: Wilo-TOP-STG 40/10 (3~400/230 V, PN 6/10)

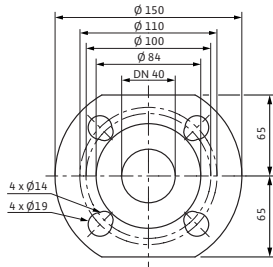
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °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

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

350 W

Speed

 n

2200 / 2500 / 2800 rpm

Power consumption

 P_1

365 / 465 / 585 W

Current at 3~400V

 I

0.65 / 0.82 / 1.17 A

Current at 3~230V

 I

1.12 / 1.43 / 2.02 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

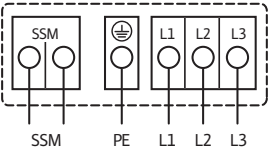
0.5 / 5 / 11 / 0 m



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Data sheet: Wilo-TOP-STG 40/10 (3~400/230 V, PN 6/10)

Terminal diagram



Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

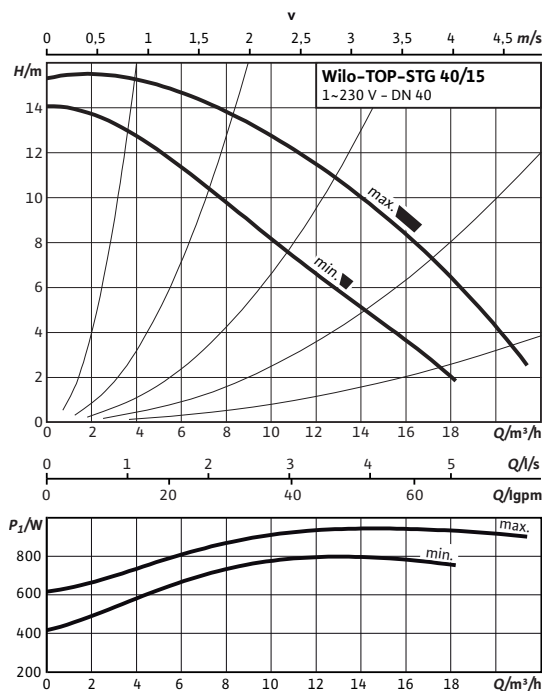
Information for order placements

Make	Wilo	
Type	TOP-STG 40/10	
Art no.	2131677	
Weight approx.	<i>m</i>	14.70 kg

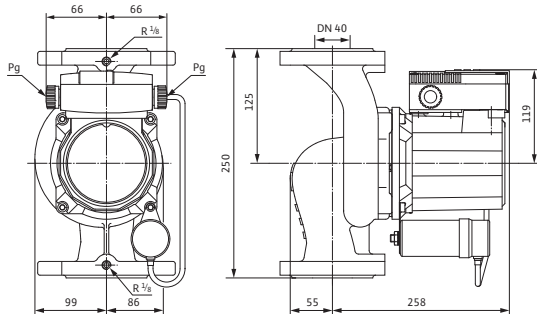
• = available, = not available

Data sheet: Wilo-TOP-STG 40/15 (1~230 V, PN 6/10)

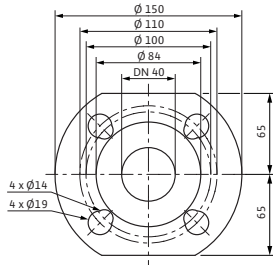
Pump curves Single-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °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

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

1~230 V, 50 Hz

Nominal motor power

 P_2

570 W

Speed

 n

2500 / 2800 rpm

Power consumption 1~230 V

 P_1

800 / 945 W

Current at 1~230V

 I

4.20 / 4.57 A

Capacitor

25.0 µF / 400 VDB

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

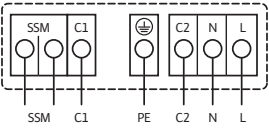
3 / 10 / 16 / 0 m



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Data sheet: Wilo-TOP-STG 40/15 (1~230 V, PN 6/10)

Terminal diagram



Mains connection 1~230 V, 50 Hz
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole shutdown of motor by integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

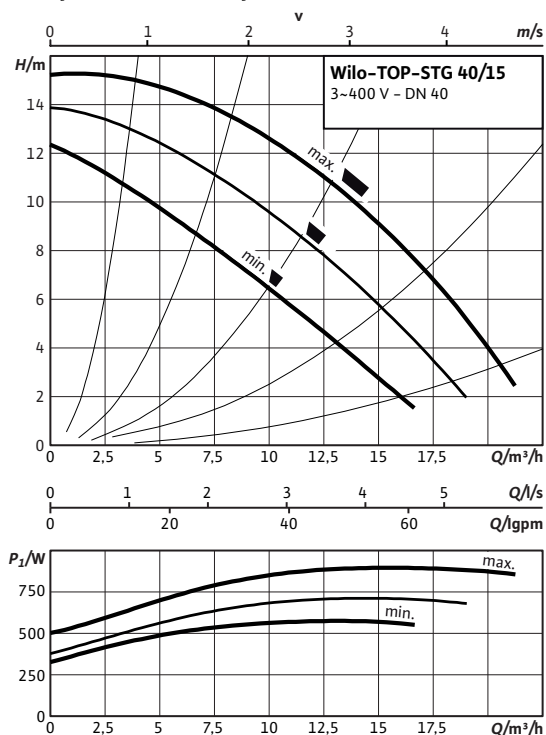
Information for order placements

Make	Wilo	
Type	TOP-STG 40/15	
Art no.	2131678	
Weight approx.	<i>m</i>	20.80 kg

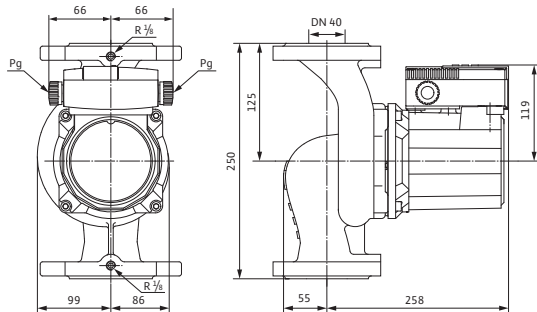
• = available, = not available

Data sheet: Wilo-TOP-STG 40/15 (3~400/230 V, PN 6/10)

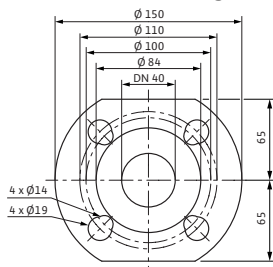
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

–20 up to +110 °C (in short-term operation 2 h: +130 °C) °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

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

570 W

Speed

 n

2150 / 2500 / 2800 rpm

Power consumption

 P_1

585 / 720 / 905 W

Current at 3~400V

 I

1.05 / 1.30 / 1.84 A

Current at 3~230V

 I

1.82 / 2.25 / 3.19 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

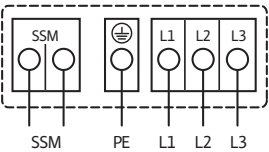
3 / 10 / 16 / 0 m



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Data sheet: Wilo-TOP-STG 40/15 (3~400/230 V, PN 6/10)

Terminal diagram



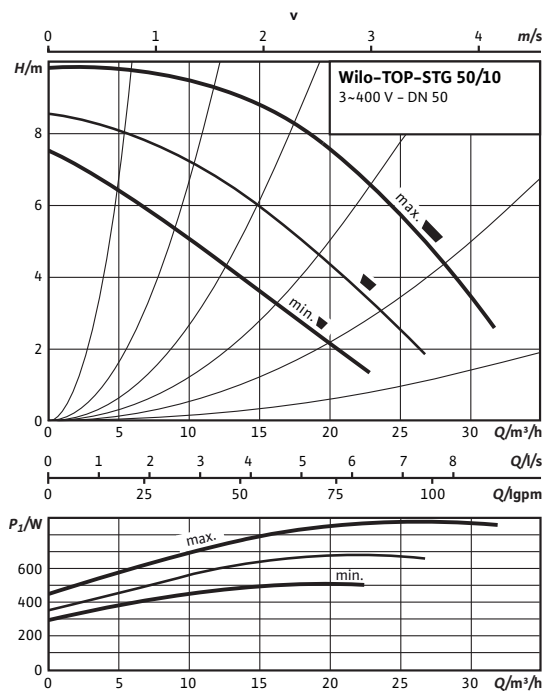
Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

Information for order placements		
Make	Wilo	
Type	TOP-STG 40/15	
Art no.	2131679	
Weight approx.	<i>m</i>	20.80 kg

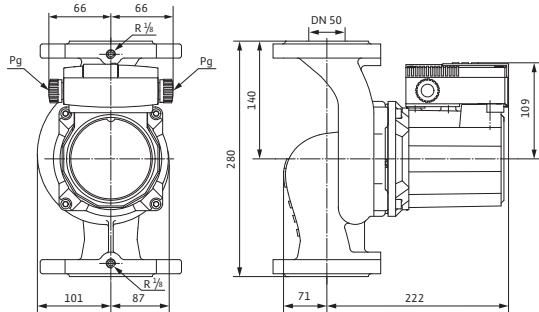
• = available, = not available

Data sheet: Wilo-TOP-STG 50/10 (3~400/230 V, PN 6/10)

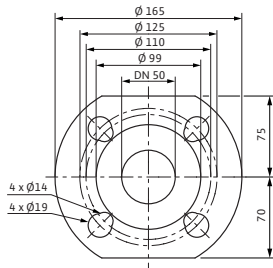
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °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 50

Overall length

 l_o

280 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

450 W

Speed

 n

2000 / 2300 / 2700 rpm

Power consumption

 P_1

500 / 680 / 880 W

Current at 3~400V

 I

0.89 / 1.20 / 1.73 A

Current at 3~230V

 I

1.54 / 2.09 / 3.00 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

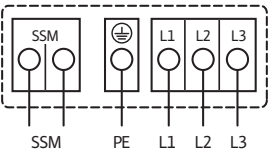
3 / 10 / 16 / 0 m



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Data sheet: Wilo-TOP-STG 50/10 (3~400/230 V, PN 6/10)

Terminal diagram



Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

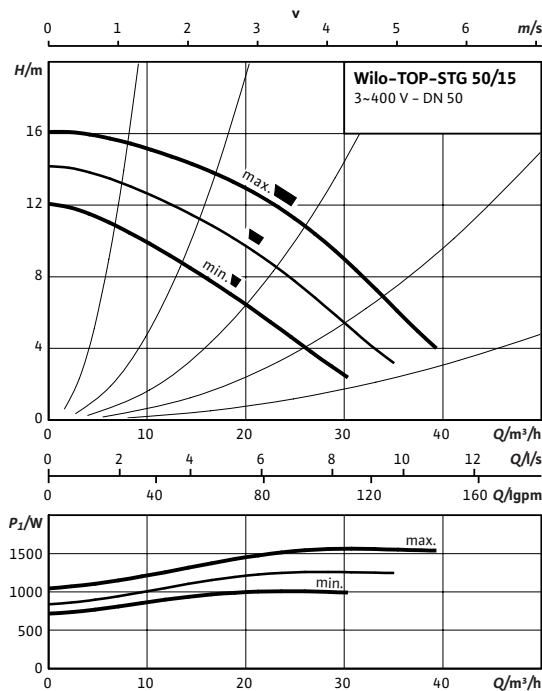
Information for order placements

Make	Wilo	
Type	TOP-STG 50/10	
Art no.	2131680	
Weight approx.	<i>m</i>	17.80 kg

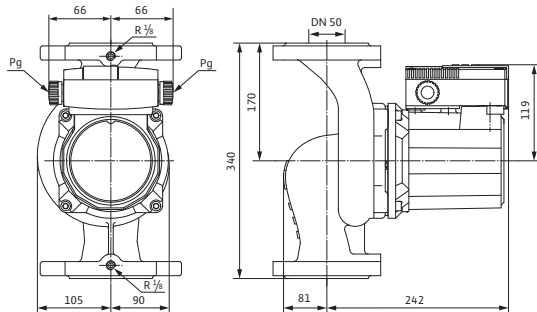
• = available, = not available

Data sheet: Wilo-TOP-STG 50/15 (3~400/230 V, PN 6/10)

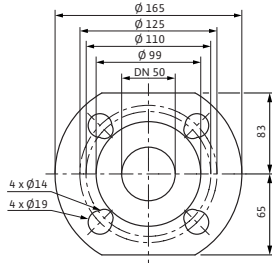
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °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 50

Overall length

 l_o

340 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

1100 W

Speed

 n

2200 / 2500 / 2800 rpm

Power consumption

 P_1

1005 / 1260 / 1570 W

Current at 3~400V

 I

1.81 / 2.25 / 3.13 A

Current at 3~230V

 I

3.14 / 3.90 / 5.43 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

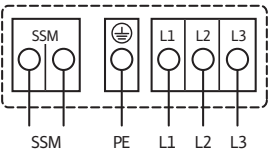
3 / 10 / 16 / 0 m



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Data sheet: Wilo-TOP-STG 50/15 (3~400/230 V, PN 6/10)

Terminal diagram



Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

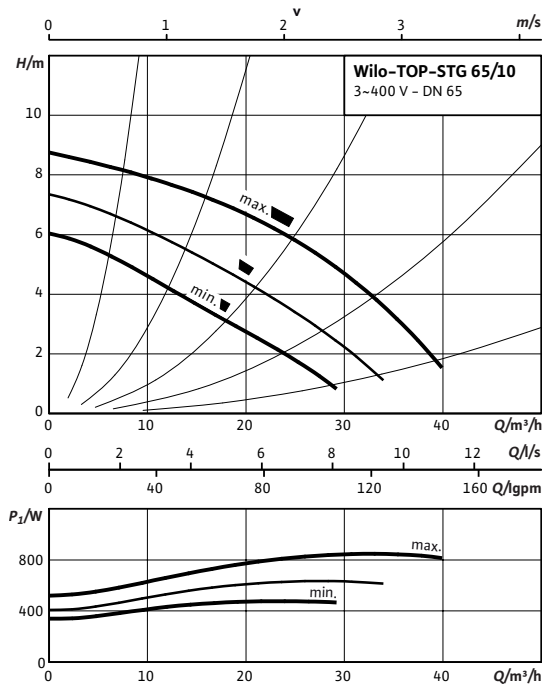
Information for order placements

Make	Wilo	
Type	TOP-STG 50/15	
Art no.	2131681	
Weight approx.	<i>m</i>	24.90 kg

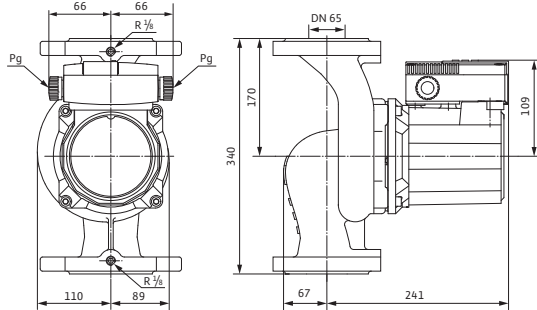
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Data sheet: Wilo-TOP-STG 65/10 (3~400/230 V, PN 6/10)

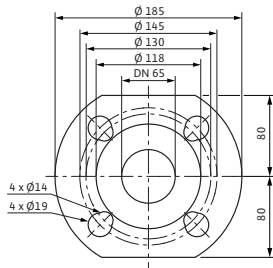
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C	–20 up to +110 °C (in short-term operation 2 h: +130 °C) °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 65
Overall length	l_o 340 mm

Motor/electronics

Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Protection class	IP X4D
Insulation class	H
Mains connection	3~400/230 V, 50 Hz
Nominal motor power	P_2 450 W
Speed	n 1950 / 2250 / 2650 rpm
Power consumption	P_1 470 / 630 / 845 W
Current at 3~400V	I 0.83 / 1.10 / 1.67 A
Current at 3~230V	I 1.44 / 1.91 / 2.89 A
Threaded cable connection	PG 2x13.5
Motor protection	integrated

Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PP - 50% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

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

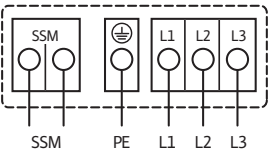
Minimum suction head at 50 / 95 / 110 / 130 °C	3 / 10 / 16 / 0 m
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Data sheet: Wilo-TOP-STG 65/10 (3~400/230 V, PN 6/10)

Terminal diagram



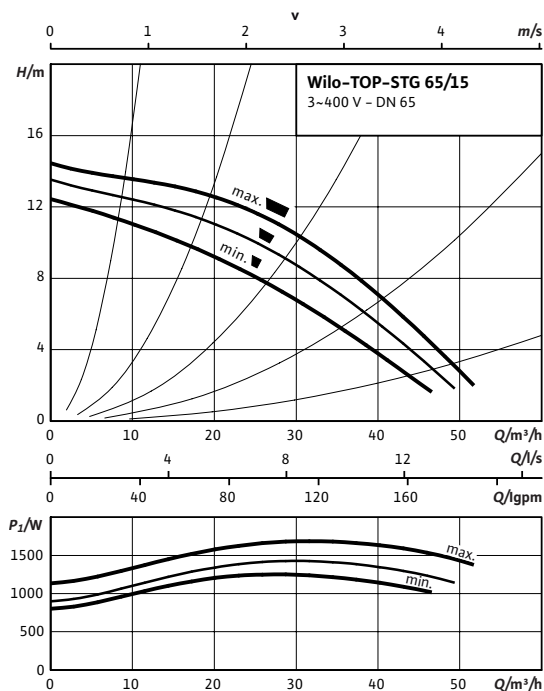
Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

Information for order placements		
Make	Wilo	
Type	TOP-STG 65/10	
Art no.	2131682	
Weight approx.	<i>m</i>	21 kg

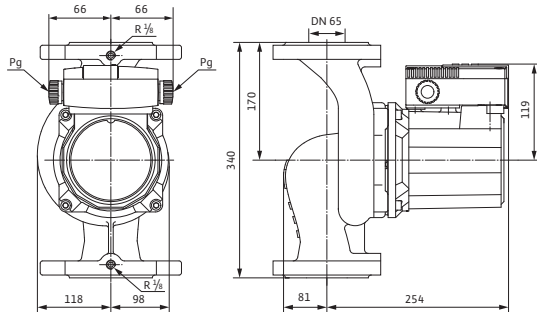
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Data sheet: Wilo-TOP-STG 65/15 (3~400/230 V, PN 6/10)

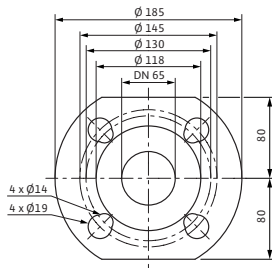
Pump curves Three-phase current



Dimension drawing



Dimension drawing, flange



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 for applications in HVAC systems at max. ambient temperature of +40 °C

-20 up to +110 °C (in short-term operation 2 h: +130 °C) °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 65

Overall length

 l_o

340 mm

Motor/electronics

Emitted interference

EN 61000-6-3

Interference resistance

EN 61000-6-2

Protection class

IP X4D

Insulation class

H

Mains connection

3~400/230 V, 50 Hz

Nominal motor power

 P_2

1300 W

Speed

 n

2500 / 2700 / 2850 rpm

Power consumption

 P_1

1240 / 1425 / 1685 W

Current at 3~400V

 I

2.18 / 2.52 / 3.41 A

Current at 3~230V

 I

3.78 / 4.36 / 5.91 A

Threaded cable connection

PG

2x13.5

Motor protection

integrated

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel (X46Cr13)

Bearing

Carbon, metal impregnated

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

Minimum suction head at 50 / 95 / 110 / 130 °C

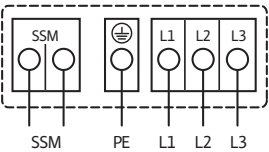
3 / 10 / 16 / 0 m



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Data sheet: Wilo-TOP-STG 65/15 (3~400/230 V, PN 6/10)

Terminal diagram



Mains connection 3~400 V, 50 Hz
3~230 V, 50 Hz (with optional switching plug 3~230 V)
Full motor protection with integrated trip electronics in terminal box for all speed stages
Triggering: All-pole motor deactivation integrated trip electronics
Reset: Manual reset at terminal box necessary
Load capacity of the potential-free NC contact according to VDI 3814 for the collective fault signal (SSM) 1 A, 250 V ~
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

Information for order placements

Make	Wilo	
Type	TOP-STG 65/15	
Art no.	2131683	
Weight approx.	<i>m</i>	30.40 kg

• = available, = not available