

SEG.40.09.EX.2.1.502

Grundfos Pump 96075894



Thank you for your interest in our products

Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SEGFAM/96075894/SEG-40-09-EX-2-1-502.html>

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Position	Qty.	Description
	1	SEG.40.09.EX.2.1.502  Product No.: 96075894 Non-self-priming, single-stage, centrifugal pump with horizontal discharge port, specifically designed for lift and pumping of wastewater containing discharge from toilets. The pump is equipped with a grinder system that grinds destructible solids into small pieces so that they can be led away through pipes of a relatively small diameter. The surface of the pump is smooth to prevent dirt and impurities from sticking to the pump. A corrosion resistant stainless steel clamp is securing the motor to the pump housing and allow for ease of service of the pump. For maintaining maximum pump efficiency during the pump life, a SmartTrim system allows easy adjustment of impeller clearance. The pump is explosion-proof. Further product details This grinder pump is specially designed for pumping effluent and untreated domestic sewage in areas with no sewer system or where gravitation systems are unsuitable. The pump is designed for transfer of domestic and municipal wastewater: - in sparsely populated areas - in small villages and farms - in areas of difficult topography - in areas with high groundwater The pump can also remove industrial wastewater containing fibres in industrial applications, such as washing plants. Pump The pump is primarily made of cast iron with surface treatment of powder coating: black NCS9000N/RAL 9005, gloss 30, thickness 100 µ. The pump features a patented grinder system, ensuring extremely high efficiency and reliable operation. Quick and easy dismantling for replacement of wear parts. No special tools are required.  A stainless-steel clamp connection between motor and pump housing ensures easy inspection and service of the impeller and shaft seal. The shaft seal consists of a cartridge seal that ensures a reliable sealing between pumped liquid and motor. - Primary seal: silicon carbide/silicon carbide (SiC/SiC) mechanical shaft seal - Secondary seal: lip seal In connection with service, the mechanical shaft seal and the lip seal are supplied as one unit ready for fitting. 

This pump is equipped with the unique SmartTrim system that enables you to easily restore the factory-set impeller clearance and maintain peak pumping efficiency. To do this, remove the cutter head and adjust the SmartTrim nut on the impeller. This can be done on site without dismantling the pump and without using special tools.

The pump has been tested and approved by VDE. Furthermore, the pump is approved for installation in explosive atmospheres and holds the following examination certificate:

- KEMA 06ATEX0127X
- IECEX KEM 06 0028X

Both certificates have been issued by KEMA according to the ATEX directive (94/9/EC).

Note: Explosion-proof pumps must always be fully submerged.

Motor

The motor is a watertight, totally encapsulated motor, supplied with a 10 m power cable. The stainless-steel plug is fastened with a union nut. This nut and O-rings provide sealing against ingress of the liquid. The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.

The motor construction is compact with a short shaft. This reduces vibrations, resulting in an increased efficiency and life of the shaft seal and ball bearings. The motor has two thermal switches in the motor windings to protect the motor against overheating.

Controls:

Moisture sensor:	without moisture sensors
AUTOADAPT:	NO

Liquid:

Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m ³

Technical:

Type of impeller:	GRINDER SYSTEM
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	LIPSEAL
Approvals on nameplate:	PA-I, ATEX
Curve tolerance:	ISO9906:2012 3B2

Materials:

Pump housing:	Cast iron EN1561 EN-GJL-200
Impeller:	Cast iron EN1561 EN-GJL-200

Installation:

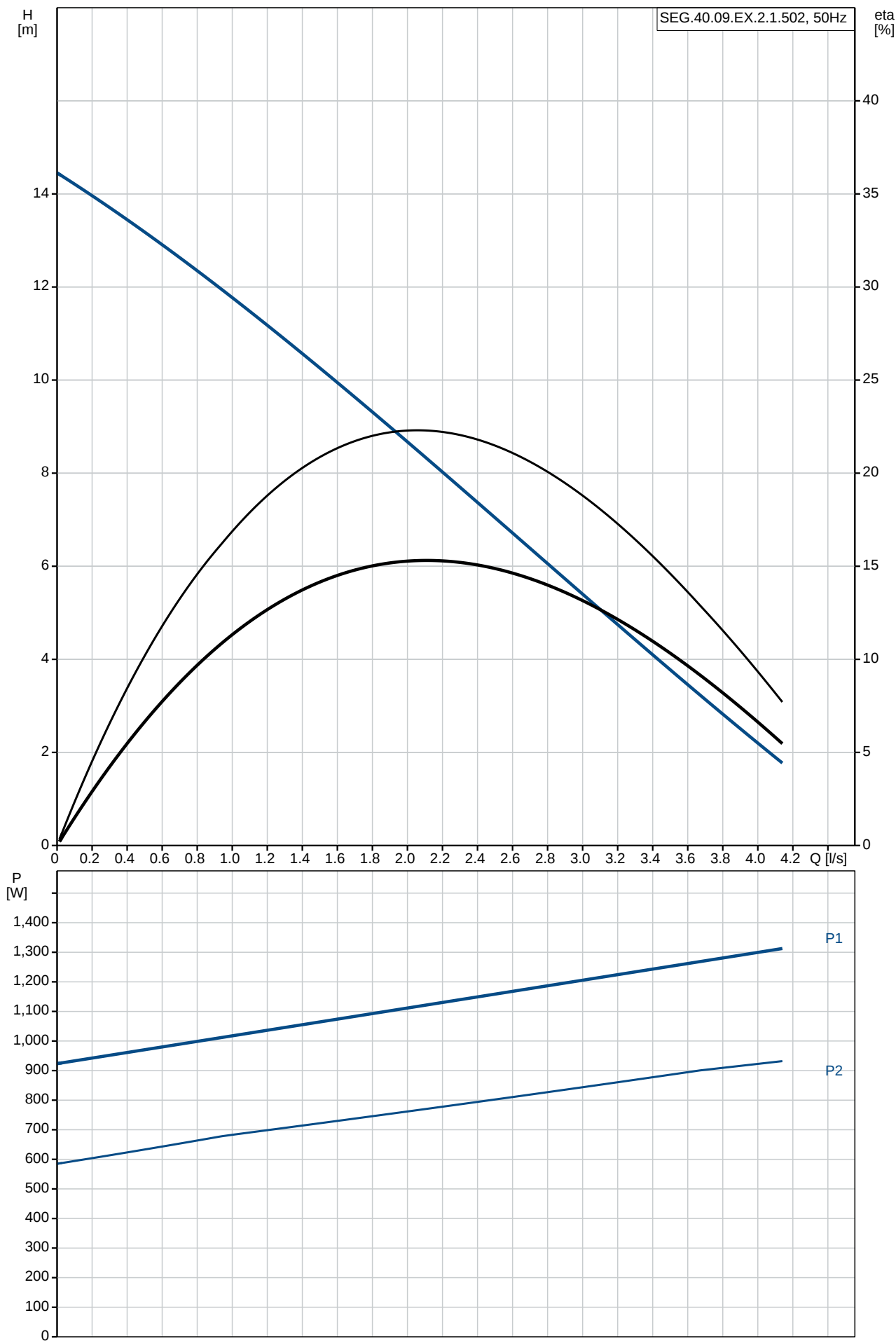
Maximum ambient temperature:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pipework connection:	DN40/50
Pump outlet:	DN 40
Pressure rating:	PN 10
Maximum installation depth:	10 m
Auto-coupling:	96076063

Electrical data:

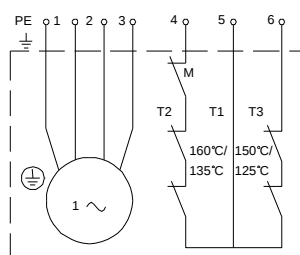
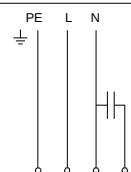
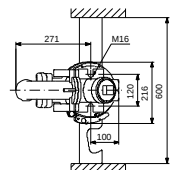
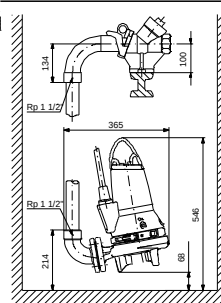
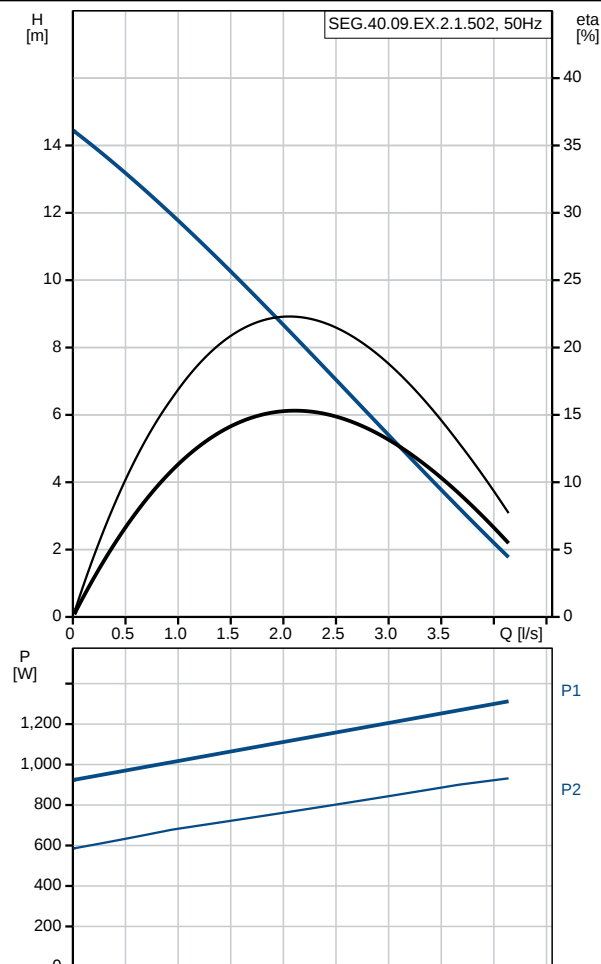
Power input - P1:	1.3 kW
Rated power - P2:	0.9 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	6 A
Starting current:	38 A
Rated current at no load:	2.9 A
Cos phi - power factor:	0,99
Cos phi - p.f. at 3/4 load:	0,98

Position	Qty.	Description
		Cos phi - p.f. at 1/2 load: 0,94 Rated speed: 2890 rpm Moment of inertia: 0.0036 kg m² Motor efficiency at full load: 71 % Motor efficiency at 3/4 load: 67 % Motor efficiency at 1/2 load: 58 % Capacitor size - run: 30 µF Capacitor size - start: 150 µF Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Explosion proof: yes Ex-description: EEX D IIB T4 Explosion protection standard: EN 60079-0/EN 60079-1 Length of cable: 10 m Cable type: LYNIFLEX Type of cable plug: NO PLUG Others: Net weight: 42.3 kg

96075894 SEG.40.09.EX.2.1.502 50 Hz

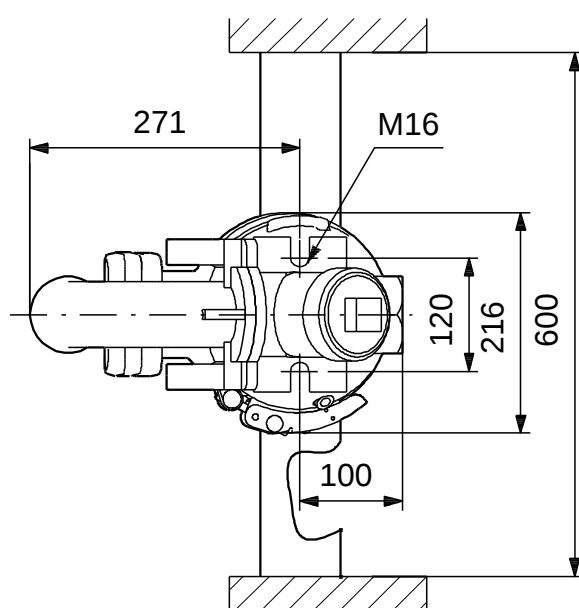
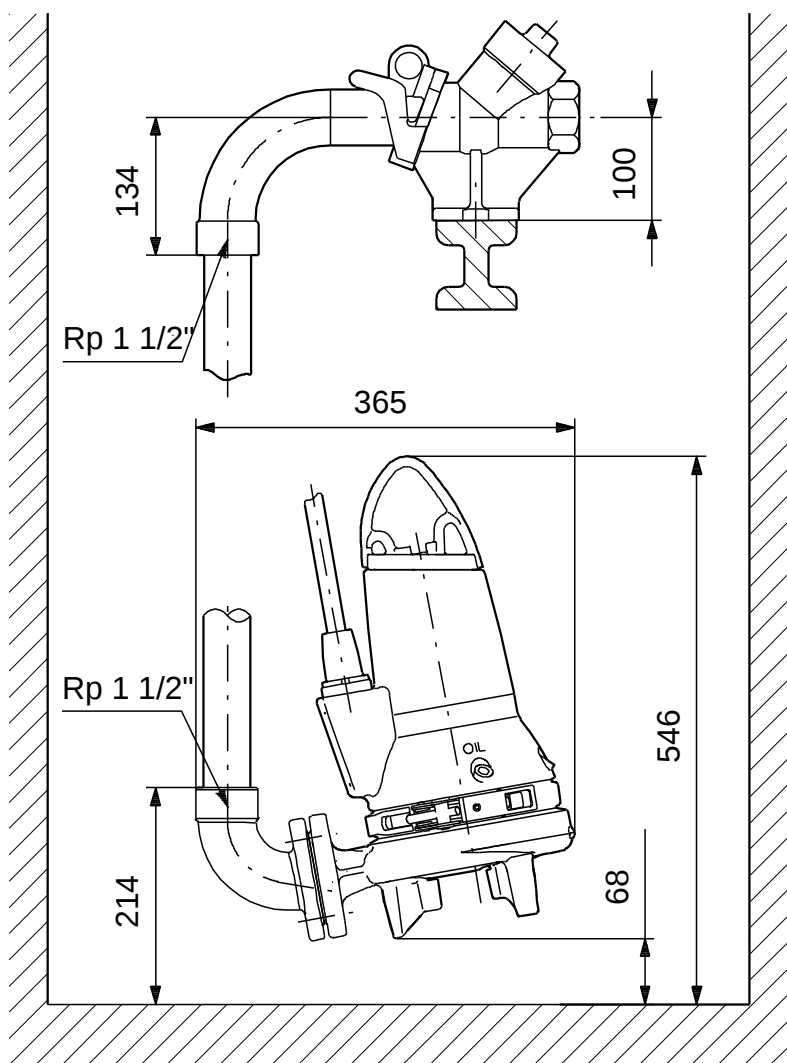


Description	Value
General information:	
Product name:	SEG.40.09.EX.2.1.502
Product No:	96075894
EAN number:	5700394850667
Technical:	
Max flow:	4.17 l/s
Head max:	14.4 m
Type of impeller:	GRINDER SYSTEM
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	LIPSEAL
Approvals on nameplate:	PA-I, ATEX
Curve tolerance:	ISO9906:2012 3B2
Materials:	
Pump housing:	Cast iron
	EN1561 EN-GJL-200
Impeller:	Cast iron
	EN1561 EN-GJL-200
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pipework connection:	DN40/50
Pump outlet:	DN 40
Pressure rating:	PN 10
Maximum installation depth:	10 m
Inst dry/wet:	SUBMERGED
Auto-coupling:	96076063
Liquid:	
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m ³
Electrical data:	
Power input - P1:	1.3 kW
Rated power - P2:	0.9 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	6 A
Starting current:	38 A
Rated current at no load:	2.9 A
Cos phi - power factor:	0,99
Cos phi - p.f. at 3/4 load:	0,98
Cos phi - p.f. at 1/2 load:	0,94
Rated speed:	2890 rpm
Moment of inertia:	0.0036 kg m ²
Motor efficiency at full load:	71 %
Motor efficiency at 3/4 load:	67 %
Motor efficiency at 1/2 load:	58 %
Capacitor size - run:	30 µF
Capacitor size - start:	150 µF
Number of poles:	2
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	yes
Ex-description:	EEX D IIB T4
Explosion protection standard:	EN 60079-0/EN 60079-1
Motor protec:	THERMAL SWITCH
Thermal protec:	external
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
Controls:	
Control box:	not included



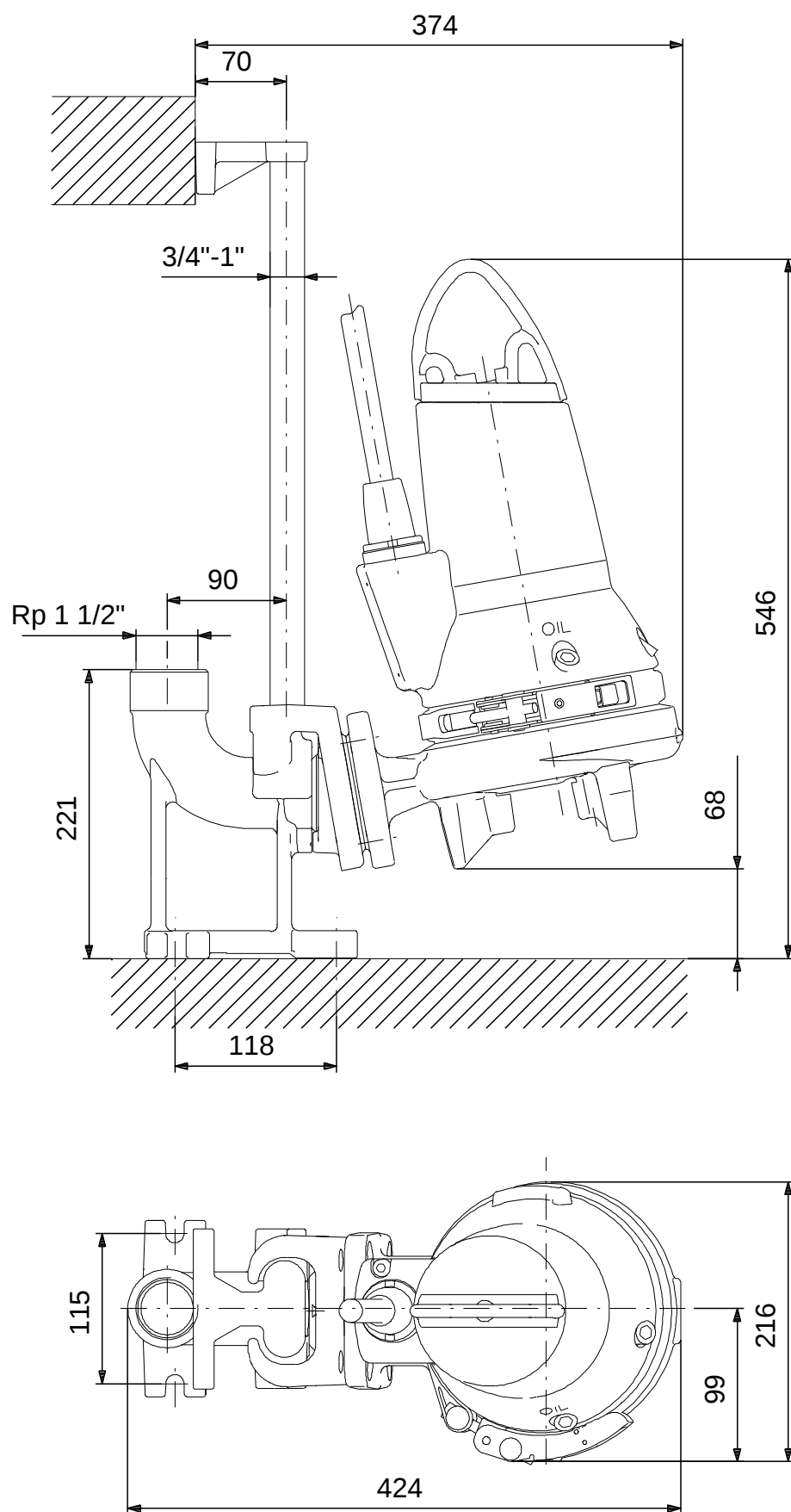
Description	Value
Additional I/O:	External
Moisture sensor:	without moisture sensors
AUTOADAPT:	NO
Others:	
Net weight:	42.3 kg

96075894 SEG.40.09.EX.2.1.502 50 Hz



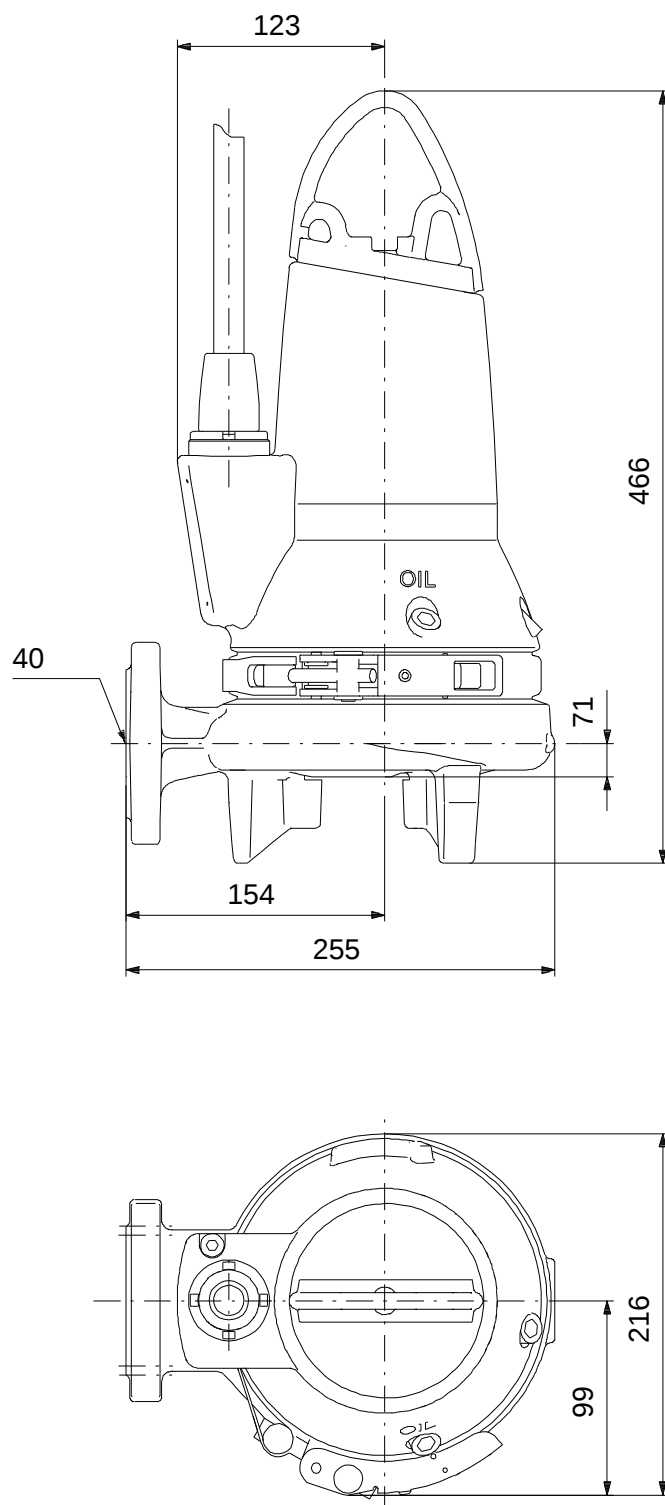
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

96075894 SEG.40.09.EX.2.1.502 50 Hz



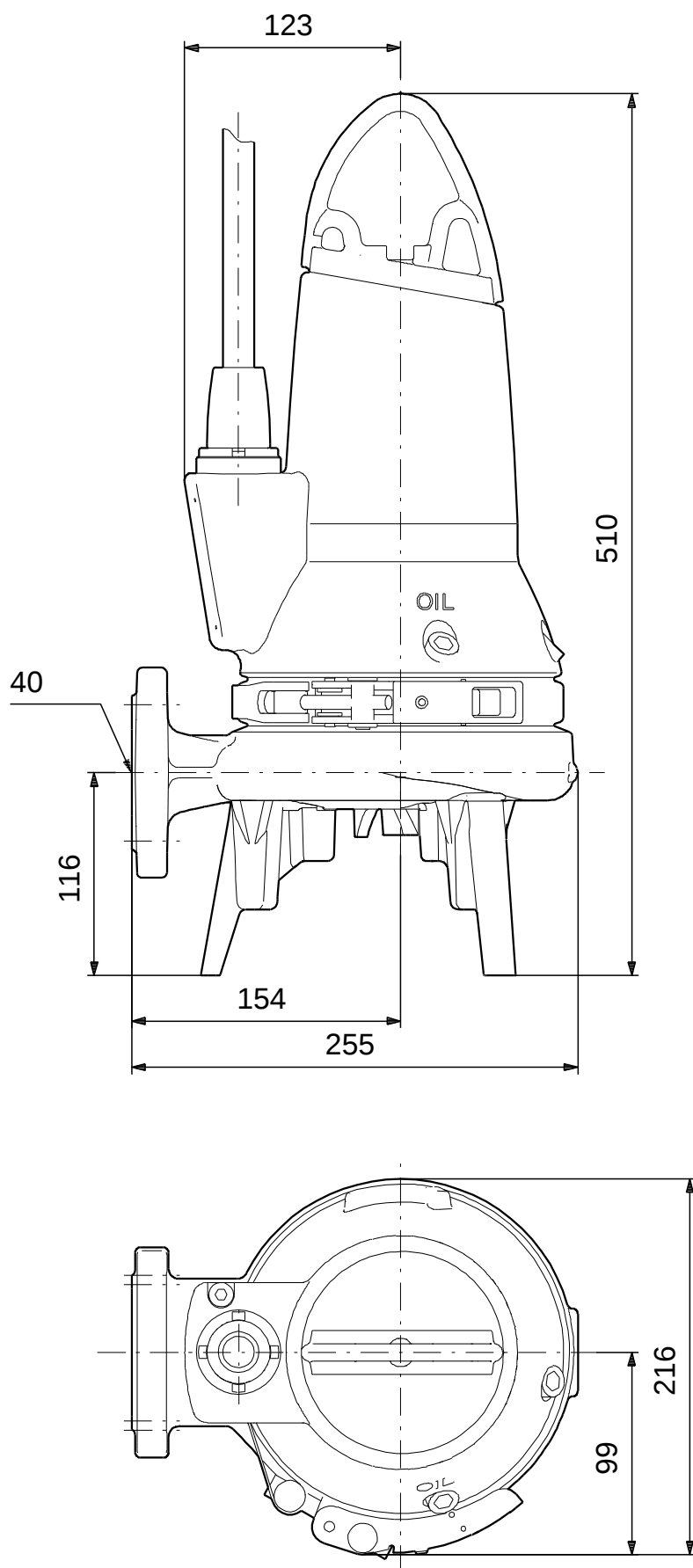
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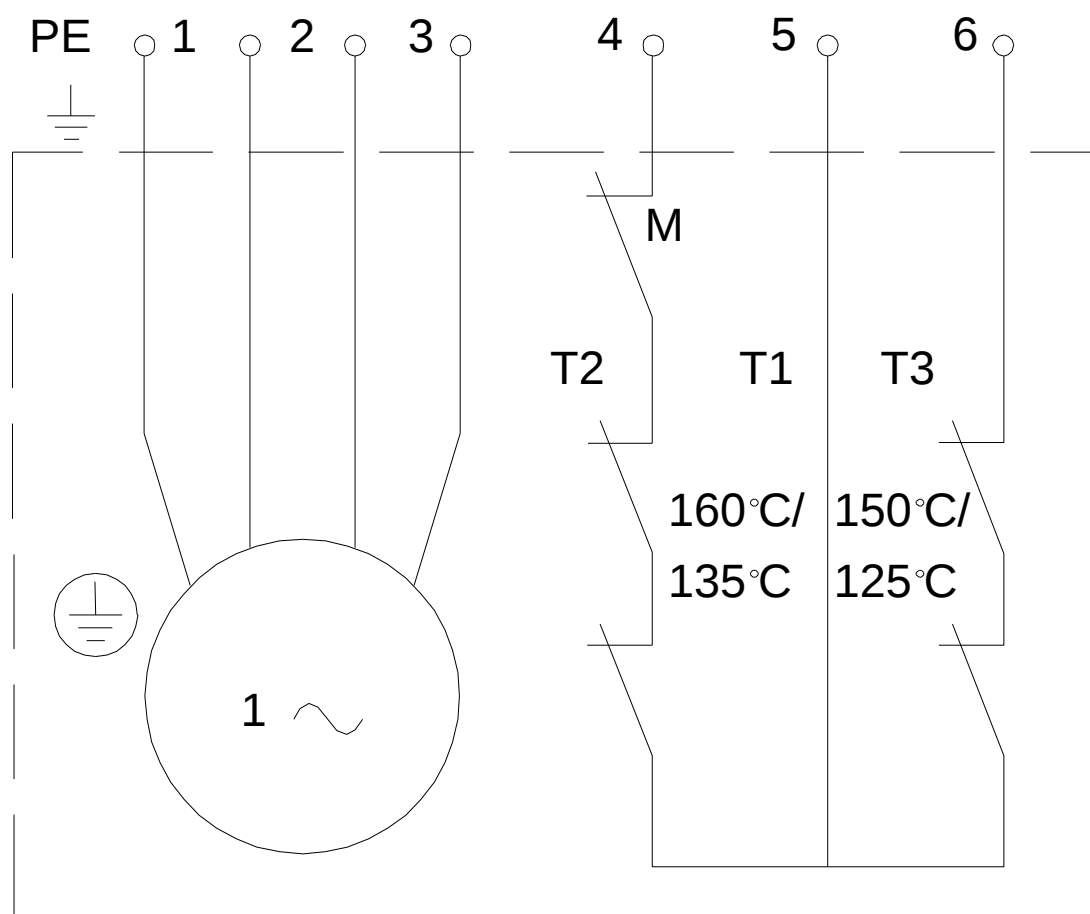
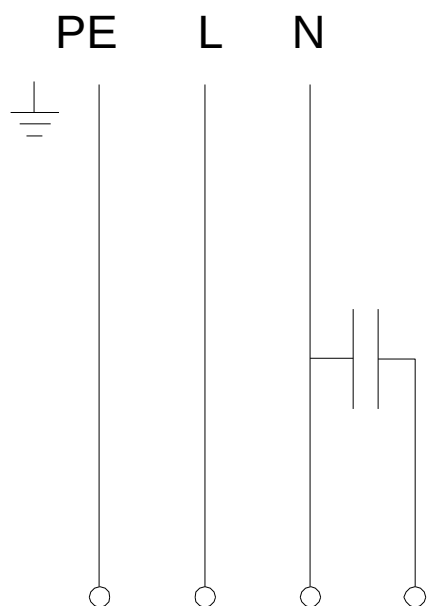
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96075894 SEG.40.09.EX.2.1.502 50 Hz



Note! All units are in [mm] unless others are stated.

*Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
Please contact us to verify the data above is still accurate/up-to-date.*

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