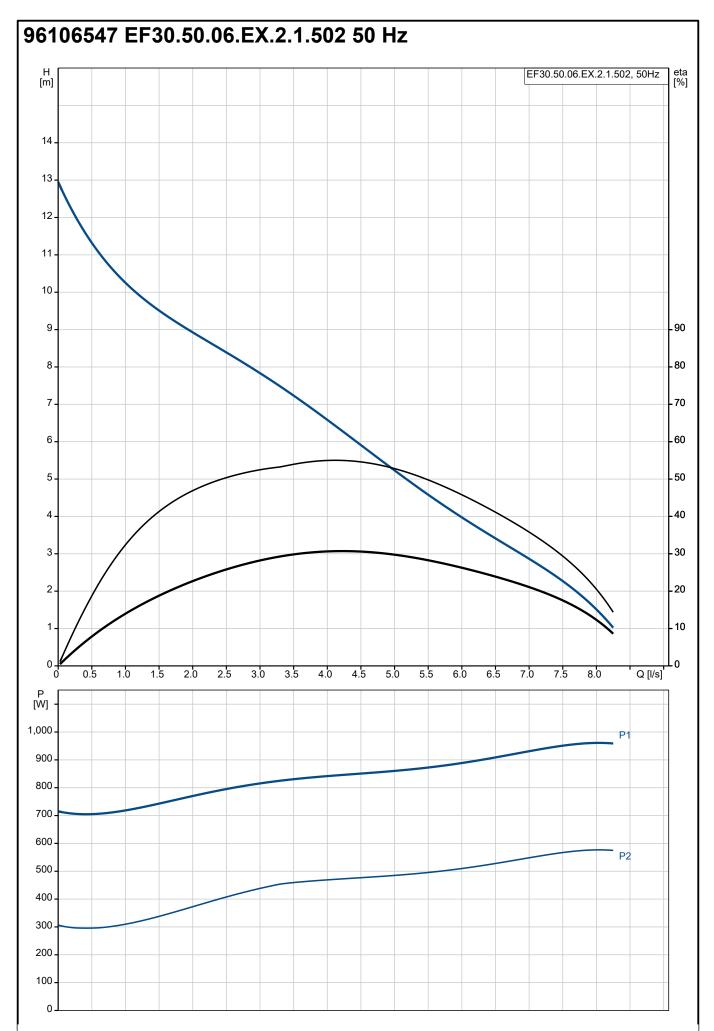
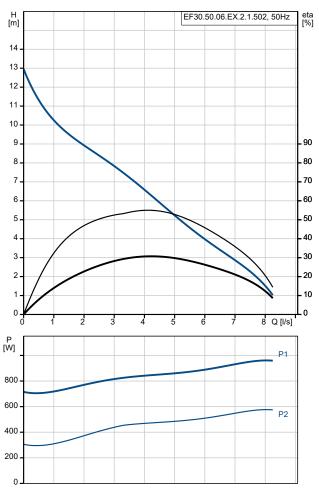
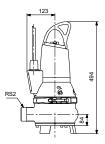
		-
EF30.50.06.EX.2.1.502		
$\land$		
6 A		
0/		
A CONTRACT OF A		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Note! Product picture may differ from actual product	
Product No.: 96106547		
GRUNDFOS EF pump is a po	rtable pump for both domestic and industrial applications.	
	semi-open impeller for 30 mm free passage and is suitable for pumping	
<ul> <li>drainage and surface water values</li> </ul>		
• wastewater with fibres, e.g. f		
wastewater without discharg		
	I buildings without discharge from toilets.	
The compact design makes th	e pump suitable for both temporary and permanent installation.	
The pump is a cast iron subm	ersible pump with integrated submersible explosion-proof 1-phase motor. Approvals:	LGA
The pump has an intermediate	e oil chamber pre-filled with non-toxic special oil.	
The pump is fitted with a cable	e plug for easy dismantling. This plug is hermetically sealed with polyurethane to	
prevent water nom penetrating	g through the cable into the motor.	
A clamp between nump housi	ng and motor ensures easy and safe dismantling and assembly. Inspection can be	
A clamp between pump housi done in the field without any s	ng and motor ensures easy and safe dismantling and assembly. Inspection can be pecial tools.	
A clamp between pump housi done in the field without any s	ng and motor ensures easy and safe dismantling and assembly. Inspection can be pecial tools.	
done in the field without any s The pump is fitted with a doub	pecial tools. Ie shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal	
done in the field without any s The pump is fitted with a doub	pecial tools.	
done in the field without any s The pump is fitted with a doub very quickly in the field withou	pecial tools. Ie shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F	pecial tools. In the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge	pecial tools. Ne shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge Controls:	pecial tools. We shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation. F and has long-life, deep-groove, greased-for-life ball bearings. port and is ready for installation either free-standing or on an auto-coupling system.	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge Controls: Moisture sensor:	pecial tools. le shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation. and has long-life, deep-groove, greased-for-life ball bearings. port and is ready for installation either free-standing or on an auto-coupling system. without moisture sensors	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge Controls: Moisture sensor: Water-in-oil sensor:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge p Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> <li>0 40 °C</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> <li>0 40 °C</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> <li>es/No): NO</li> <li>040 °C</li> <li>998.2 kg/m<sup>3</sup></li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> <li>pes/No): NO</li> <li>040 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> <li>es/No): NO</li> <li>040 °C</li> <li>998.2 kg/m<sup>3</sup></li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors</li> <li>without water-in-oil sensor</li> <li>es/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN</li> <li>30 mm</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors</li> <li>without water-in-oil sensor</li> <li>es/No): NO</li> <li>040 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal: Max. hydraulic efficiency:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN 30 mm</li> <li>SIC/SIC 63 %</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors</li> <li>without water-in-oil sensor</li> <li>es/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN</li> <li>30 mm</li> <li>SIC/SIC</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal: Max. hydraulic efficiency: Approvals on nameplate:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN 30 mm</li> <li>SIC/SIC</li> <li>63 %</li> <li>LGA, ATEX</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal: Max. hydraulic efficiency: Approvals on nameplate: Curve tolerance:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor es/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN 30 mm</li> <li>SIC/SIC</li> <li>63 %</li> <li>LGA, ATEX</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal: Max. hydraulic efficiency: Approvals on nameplate: Curve tolerance: Materials:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor ess/No): NO</li> <li>0 40 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN</li> <li>30 mm</li> <li>SIC/SIC</li> <li>63 %</li> <li>LGA, ATEX</li> <li>ISO9906:2012 3B2</li> </ul>	
done in the field without any s The pump is fitted with a doub very quickly in the field withou The motor is insulation class F The pump has R 2 discharge f Controls: Moisture sensor: Water-in-oil sensor: AUTOADAPT with/without (Ye Liquid: Liquid temperature range: Density: Technical: Max flow: Type of impeller: Maximum particle size: Primary shaft seal: Max. hydraulic efficiency: Approvals on nameplate: Curve tolerance: Materials:	<ul> <li>pecial tools.</li> <li>ble shaft seal in the unique cartridge design. This makes it easy to replace the shaft seal t any special tools. It also eliminates the risk of faulty installation.</li> <li>F and has long-life, deep-groove, greased-for-life ball bearings.</li> <li>port and is ready for installation either free-standing or on an auto-coupling system.</li> <li>without moisture sensors without water-in-oil sensor</li> <li>bs/No): NO</li> <li>040 °C</li> <li>998.2 kg/m<sup>3</sup></li> <li>9 l/s</li> <li>SEMI OPEN</li> <li>30 mm</li> <li>SIC/SIC</li> <li>63 %</li> <li>LGA, ATEX</li> <li>ISO9906:2012 3B2</li> <li>Cast iron</li> </ul>	

Qty.	Description	
1	Installation:	
	t max amb:	40 °C
	Maximum operating pressure:	6 bar
	Pump outlet:	R 2
	Maximum installation depth:	10 m
	Auto-coupling:	Y
	Electrical data:	
	Power input - P1:	1 kW
	Rated power - P2:	0.6 kW
	Mains frequency:	50 Hz
	Rated voltage:	1 x 230 V
	Voltage tolerance:	+6/-10 %
	Max starts per. hour:	30
	Rated current:	4.8 A
	Rated current at 3/4 load:	4.1 A
	Rated current at 1/2 load:	3.4 A
	Starting current:	38 A
	Rated current at no load:	2.6 A
	Cos phi - power factor:	0.90
	Cos phi - p.f. at 3/4 load: Cos phi - p.f. at 1/2 load:	0.86 0.81
	Rated speed:	2920 rpm
	Locked-rotor torque:	6.5 Nm
	Breakdown torque:	7 Nm
	Moment of inertia:	0.0035 kg m <sup>2</sup>
	Motor efficiency at full load:	61 %
	Motor efficiency at 3/4 load:	55 %
	Motor efficiency at 1/2 load:	42 %
	Capacitor size - run:	30 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-protection standard:	EN50014/EN50018, class EEx d IIB T4
	Length of cable:	10 m
	Cable type:	H07RN-F
	Type of cable plug:	No plug
	Others:	
	Net weight:	42 kg
	Danish VVS No.:	391292512
	Country of origin:	HU
	Custom tariff no.:	84137021
<u> </u>	from Crundfos Product Centre [2022 -	46.0071 2/10

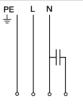


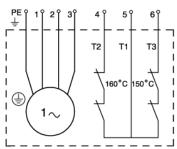
Description	Value
General information:	
Product name:	EF30.50.06.EX.2.1.502
Product No:	96106547
EAN number:	5700396854007
Technical:	
Max flow:	9 l/s
Head max:	13.6 m
Type of impeller:	SEMI OPEN
Maximum particle size:	30 mm
Primary shaft seal:	SIC/SIC
Max. hydraulic efficiency:	63 %
Approvals on nameplate:	LGA, ATEX
Curve tolerance:	ISO9906:2012 3B2
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Impeller:	Cast iron
Impeller:	EN-GJS-500-7
Installation:	
t max amb:	40 °C
Maximum operating pressure:	6 bar
Pump outlet:	R 2
Maximum installation depth:	10 m
Inst dry/wet:	S
Installation:	vertical
Auto-coupling:	Y
Liquid:	1
Liquid temperature range:	0 40 °C
Density:	998.2 kg/m <sup>3</sup>
Electrical data:	990.2 Kg/III
Power input - P1:	1 kW
Rated power - P2:	
•	
Mains frequency:	50 Hz 1 x 230 V
Rated voltage:	
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	4.8 A
Rated current at 3/4 load:	4.1 A
Rated current at 1/2 load:	3.4 A
Starting current:	38 A
Rated current at no load:	2.6 A
Cos phi - power factor:	0.90
Cos phi - p.f. at 3/4 load:	0.86
Cos phi - p.f. at 1/2 load:	0.81
Rated speed:	2920 rpm
Locked-rotor torque:	6.5 Nm
Breakdown torque:	7 Nm
Moment of inertia:	0.0035 kg m²
Motor efficiency at full load:	61 %
Motor efficiency at 3/4 load:	55 %
Motor efficiency at 1/2 load:	42 %
Capacitor size - run:	30 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-protection standard:	EN50014/EN50018, class EEx d IIB T4
Built-in motor protection:	THERMAL SWITCH
	internal
Thermal protec:	
•	10 m
Thermal protec: Length of cable: Cable type:	





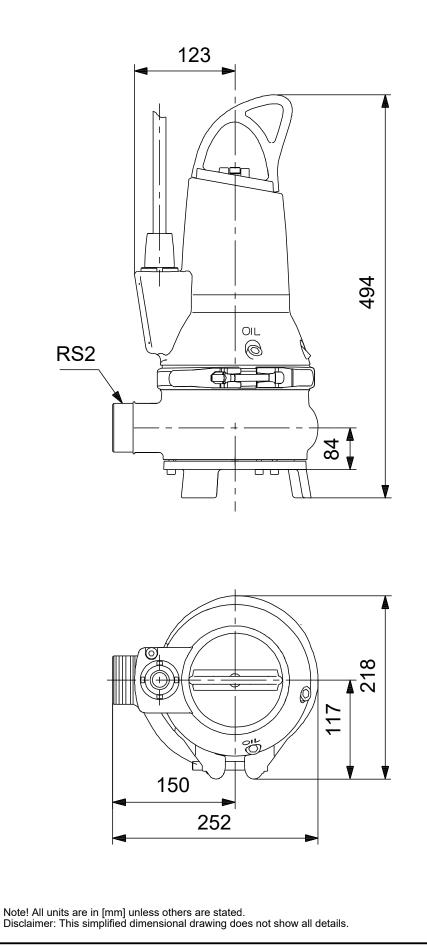


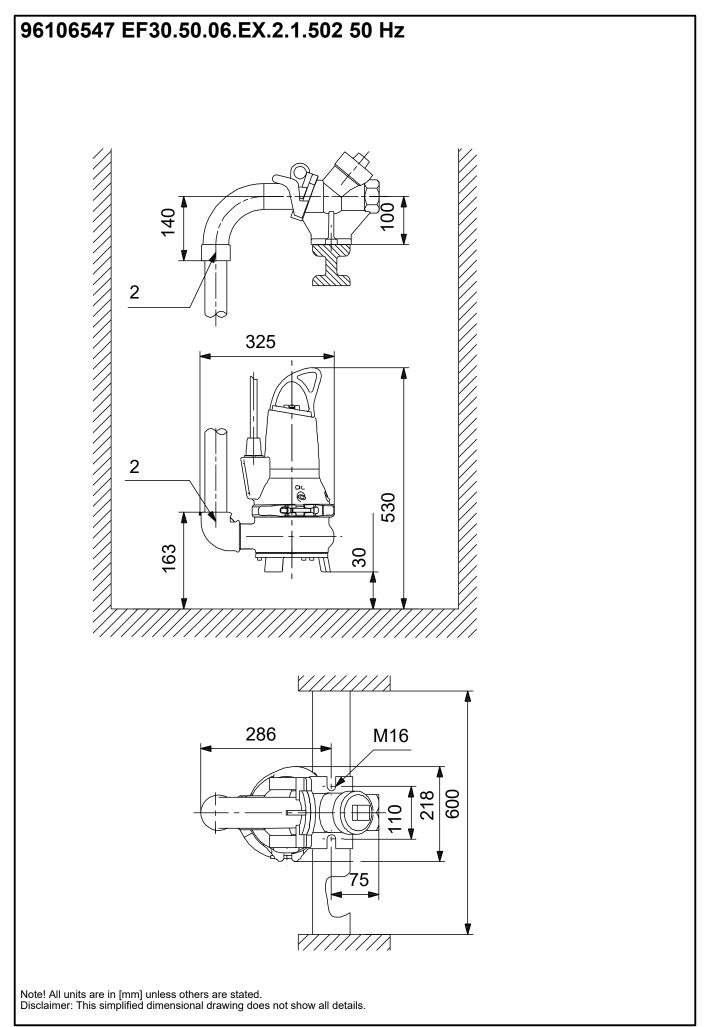




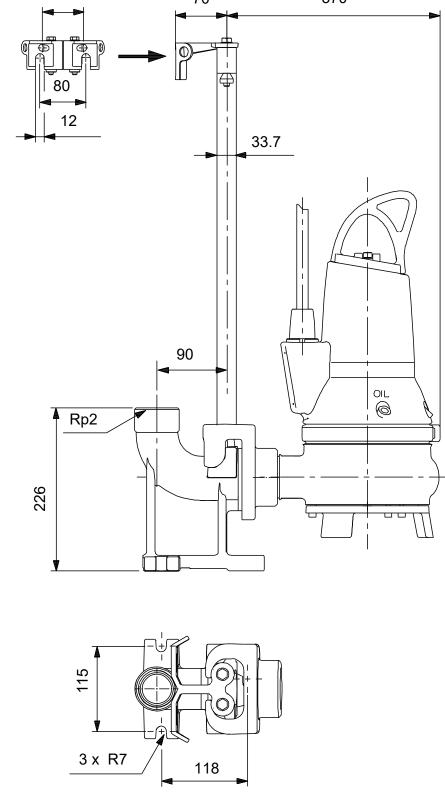
Description	Value
Controls:	
Control box:	not included
Additional I/O:	External
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
AUTOADAPT with/without (Yes/No):	NO
Others:	
Net weight:	42 kg
Danish VVS No.:	391292512
Country of origin:	HU
Custom tariff no.:	84137021

## 96106547 EF30.50.06.EX.2.1.502 50 Hz



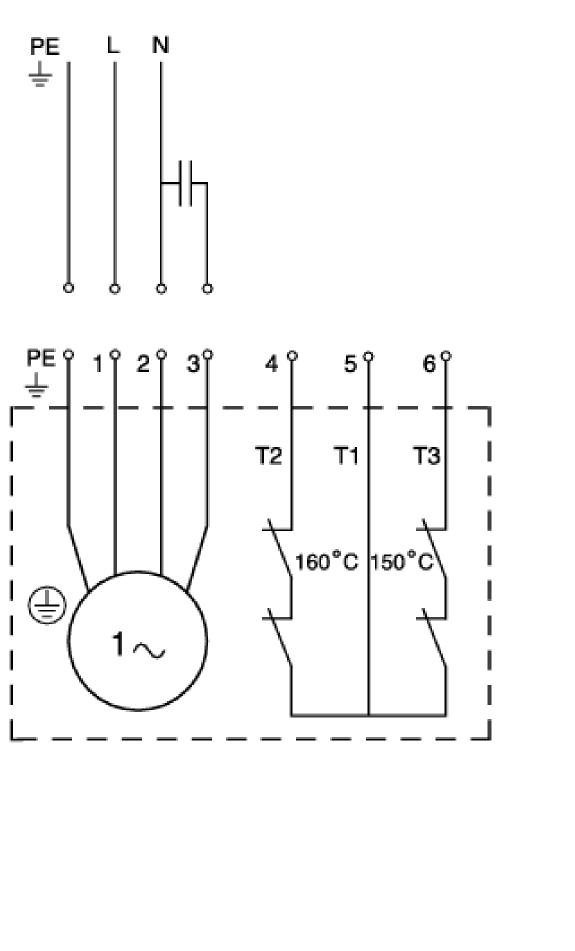


## 96106547 EF30.50.06.EX.2.1.502 50 Hz



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

## 96106547 EF30.50.06.EX.2.1.502 50 Hz



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

Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		EF30.50.06.EX.2.1.502	1	96106547	Price or		
					reques		