Company name:
Created by:
Phone:

Date: 01/10/2020

Qty.	Description
1	**SL1.50.65.15.E.2.50B**

Note! Product picture may differ from actual product

Product No.: 96878458

Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.

The pump is designed for intermittent and continous operations in submerged installation. The revolutionary S-tube® impeller provides free spherical passage of solids up to 1 15/16 in and is suitable for wastewater with a dry matter content of up to 3 %. A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange.

Further product details

The pump is suitable for both temporary and permanent installation either as free-standing on ring stand or on an auto-coupling system.

Pump

The pump housing, motor top and impeller are made of cast iron (EN-GJL-250).

All surfaces of the cast iron parts are protected with cataphoresis coating. The surface of the cast iron pump parts is afterwards painted with environmental friendly powder coating (type NCS 9000N (black), gloss code 30, thickness 100 µm) which ensures high impact and corrosion protection. The final pump is assembled from already painted parts which ensures that no rust or scale can be formed in grooves between parts, etc.

The S-tube® impeller is providing free spherical passage through the impeller and pump housing and creates a natural extension of the pipework connected to the pump. The S-tube® impeller is a wet-balanced and tube-shaped channel impeller placed in a pump housing that matches the smooth tube shape leaving no obstructions or dead zones.

The key to the S-tube® design is simplicity, with no cutting or moving functions that can get worn over time, thereby ensuring constant, superior efficiency. The simple design means lower life cycle costs because abrasive wear is reduced and there are fewer clogging incidents.

The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.

The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.

- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)
- Secondary seal: Carbon/Ceramics

The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.

The pump is approved according to EN 12050-2.

Motor

The motor is a watertight, totally encapsulated motor supplied with a 33 ft power cable. The stainless steel plug is fastened with a union nut. This nut and the 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.

A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.

The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.

The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.

Controls:

Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
AUTOADAPT:	YES

Liquid:

Pumped liquid:	Any Newtonian liquid
Maximum liquid temperature:	104 °F
Density:	62.29 lb/ft³

Technical:

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Company name:
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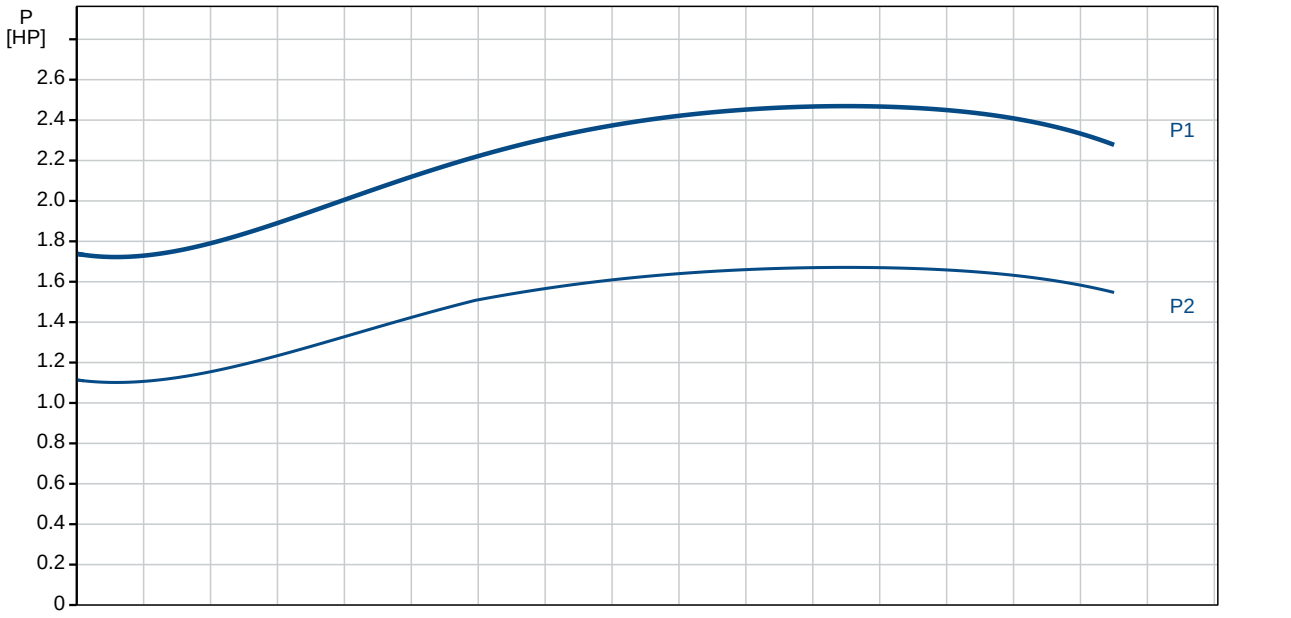
Date: 01/10/2020

Qty.	Description	
	Type of impeller:	SINGLE CHANNEL
	Maximum particle size:	1 15/16 in
	Primary shaft seal:	SIC/SIC
	Secondary shaft seal:	LIPSEAL
	Approvals on nameplate:	EN 12050-2
	Curve tolerance:	ISO9906:2012 3B2
	Materials:	
	Pump housing:	Cast iron EN-JL-1030
	Impeller:	Cast iron EN-GJS-500-7
	Motor:	EN-GJL-200
	Installation:	
	Maximum ambient temperature:	104 °F
	Flange standard:	DIN
	Pump inlet:	65
	Pump outlet:	65
	Pressure rating:	PN 10
	Maximum installation depth:	32.8 ft
	Frame range:	A
	Electrical data:	
	Power input - P1:	2.2 kW
	Rated power - P2:	2 HP
	Mains frequency:	50 Hz
	Rated voltage:	3 x 400-415 V
	Voltage tolerance:	+6/-10 %
	Max starts per. hour:	30
	Rated current:	3.8-3.8 A
	Rated current at 3/4 load:	3 A
	Rated current at 1/2 load:	2.4 A
	Starting current:	21 A
	Rated current at no load:	1.9 A
	Cos phi - power factor:	0.88
	Cos phi - p.f. at 3/4 load:	0.81
	Cos phi - p.f. at 1/2 load:	0.71
	Rated speed:	2720 rpm
	Motor efficiency at full load:	67 %
	Motor efficiency at 3/4 load:	68 %
	Motor efficiency at 1/2 load:	63 %
	Number of poles:	2
	Start. method:	direct-on-line
	Enclosure class (IEC 34-5):	IP68
	Insulation class (IEC 85):	F
	Explosion proof:	no
	Length of cable:	33 ft
	Cable type:	LYNIFLEX
	Others:	
	Net weight:	128 lb
	Swedish RSK No.:	5885981
	Finnish LVI No.:	4836163
	Country of origin:	HU
	Custom tariff no.:	84137021

Company name:
Created by:
Phone:

Date: 01/10/2020

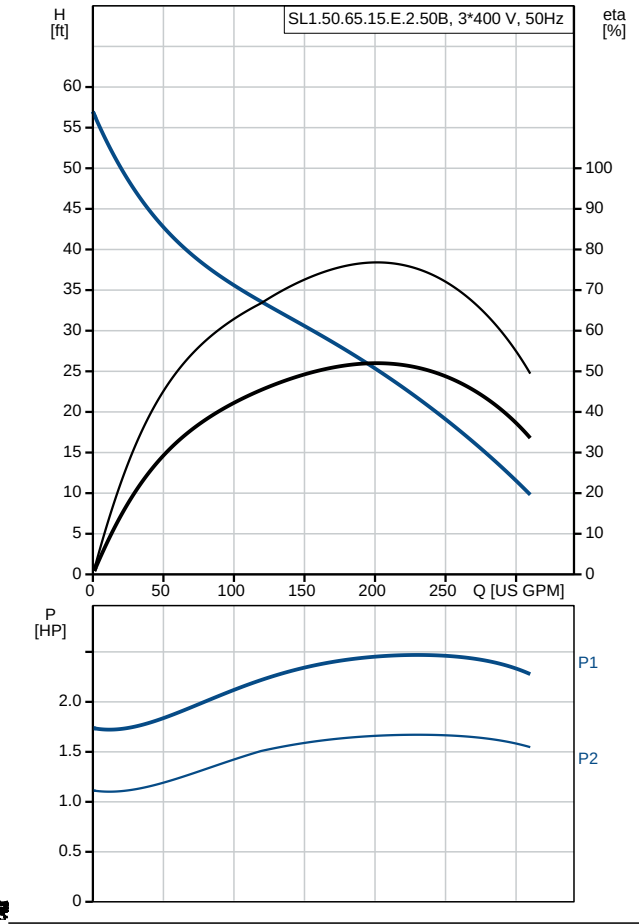
96878458 SL1.50.65.15.E.2.50B 50 Hz

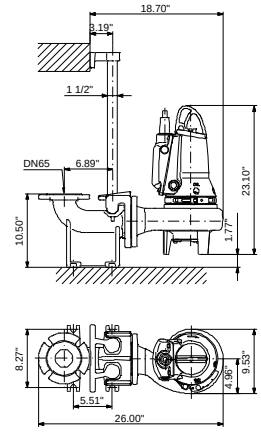


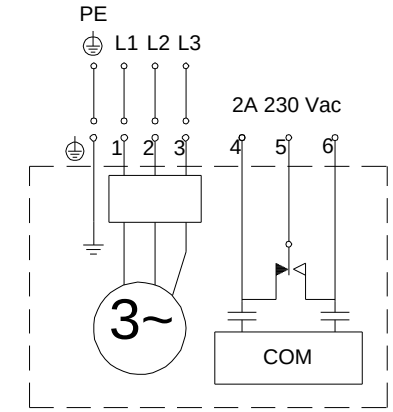
Company name:
Created by:
Phone:

Date: 01/10/2020

Description	Value
General information:	
Product name:	SL1.50.65.15.E.2.50B
Product No:	96878458
EAN number:	5700312550709
Price:	GBP 2703
Technical:	
Maximum flow:	309 US GPM
Max flow:	309 US GPM
Head max:	55.78 ft
Type of impeller:	SINGLE CHANNEL
Maximum particle size:	1 15/16 in
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	LIPSEAL
Approvals on nameplate:	EN 12050-2
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	without cooling jacket
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-JL-1030
Impeller:	Cast iron
Impeller:	EN-GJS-500-7
Motor:	EN-GJL-200
Installation:	
Maximum ambient temperature:	104 °F
Flange standard:	DIN
Pump inlet:	65
Pump outlet:	65
Pressure rating:	PN 10
Maximum installation depth:	32.8 ft
Inst dry/wet:	SUBMERGED
Installation:	Vertical
Frame range:	A
Liquid:	
Pumped liquid:	Any Newtonian liquid
Maximum liquid temperature:	104 °F
Density:	62.29 lb/ft³
Electrical data:	
Power input - P1:	2.2 kW
Rated power - P2:	2 HP
Mains frequency:	50 Hz
Rated voltage:	3 x 400-415 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	3.8-3.8 A
Rated current at 3/4 load:	3 A
Rated current at 1/2 load:	2.4 A
Starting current:	21 A
Rated current at no load:	1.9 A
Cos phi - power factor:	0.88
Cos phi - p.f. at 3/4 load:	0.81
Cos phi - p.f. at 1/2 load:	0.71
Rated speed:	2720 rpm
Motor efficiency at full load:	67 %
Motor efficiency at 3/4 load:	68 %
Motor efficiency at 1/2 load:	63 %
Number of poles:	2
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68







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Company name:
Created by:
Phone:

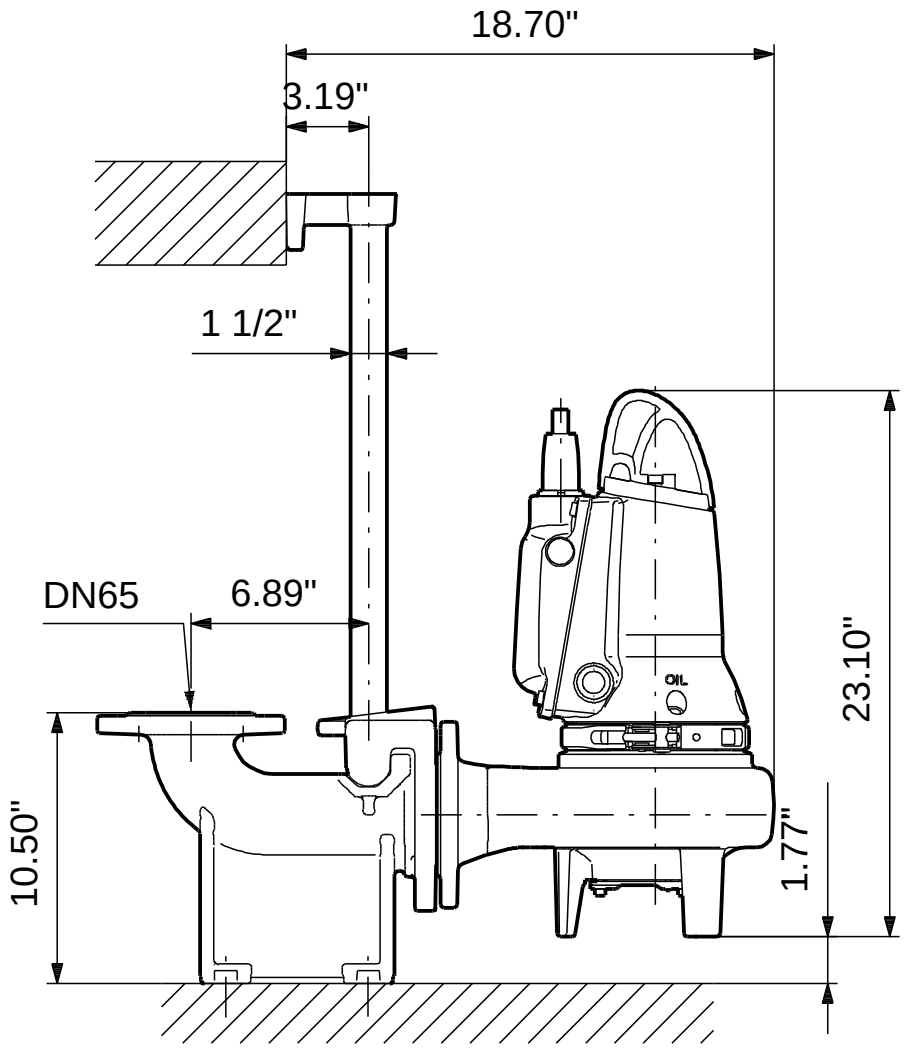
Date: 01/10/2020

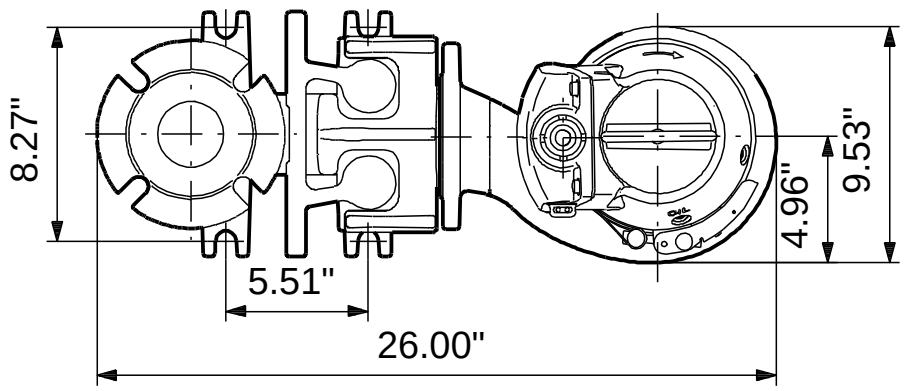
Description	Value
Insulation class (IEC 85):	F
Explosion proof:	no
Motor protec:	THERMAL SWITCH
Length of cable:	33 ft
Cable type:	LYNIFLEX
Controls:	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
AUTOADAPT:	YES
Others:	
Net weight:	128 lb
Swedish RSK No.:	5885981
Finnish LVI No.:	4836163
Country of origin:	HU
Custom tariff no.:	84137021

Company name:
Created by:
Phone:

Date: 01/10/2020

96878458 SL1.50.65.15.E.2.50B 50 Hz



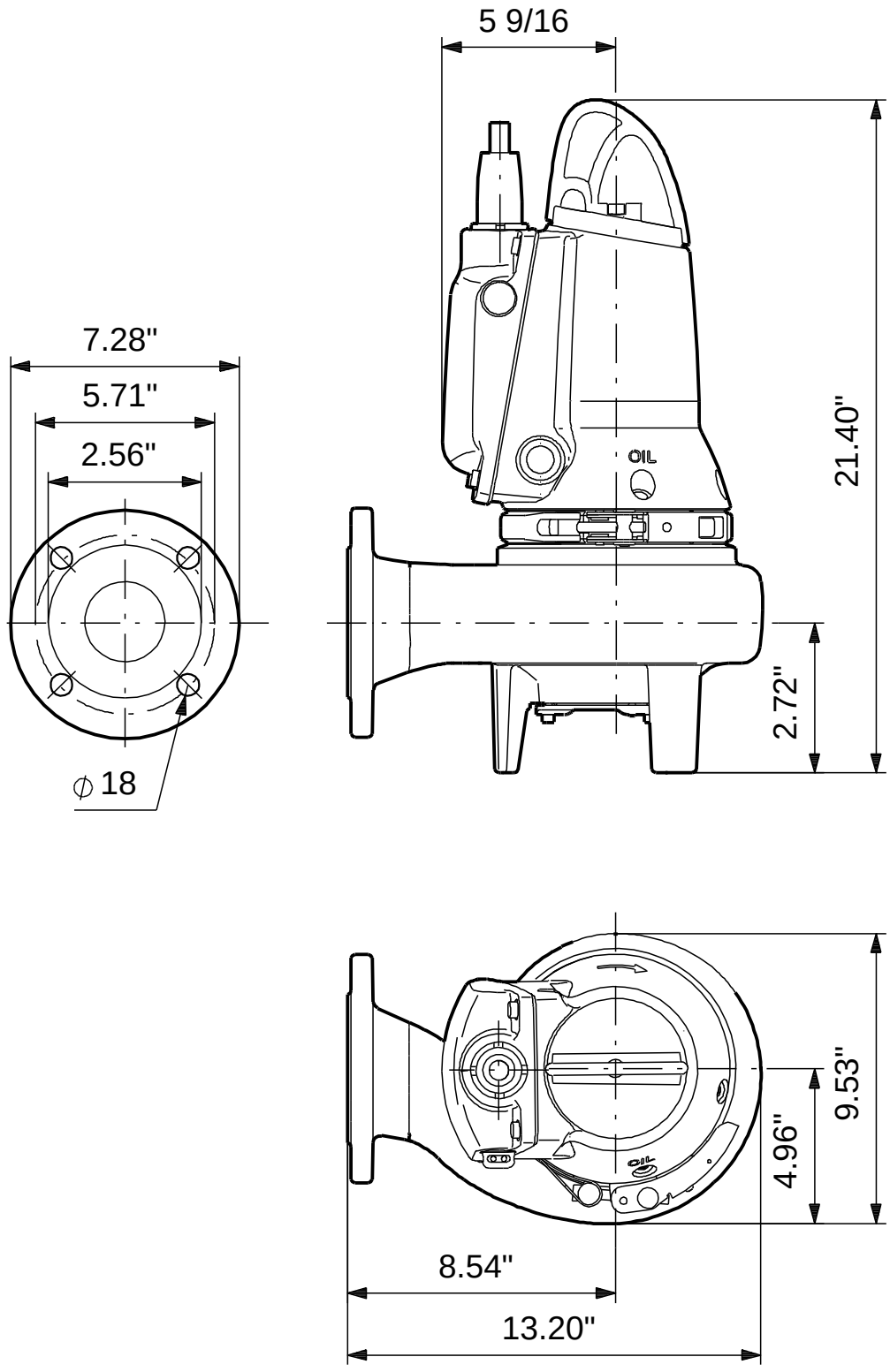


Note! All units are in [in] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 01/10/2020

96878458 SL1.50.65.15.E.2.50B 50 Hz



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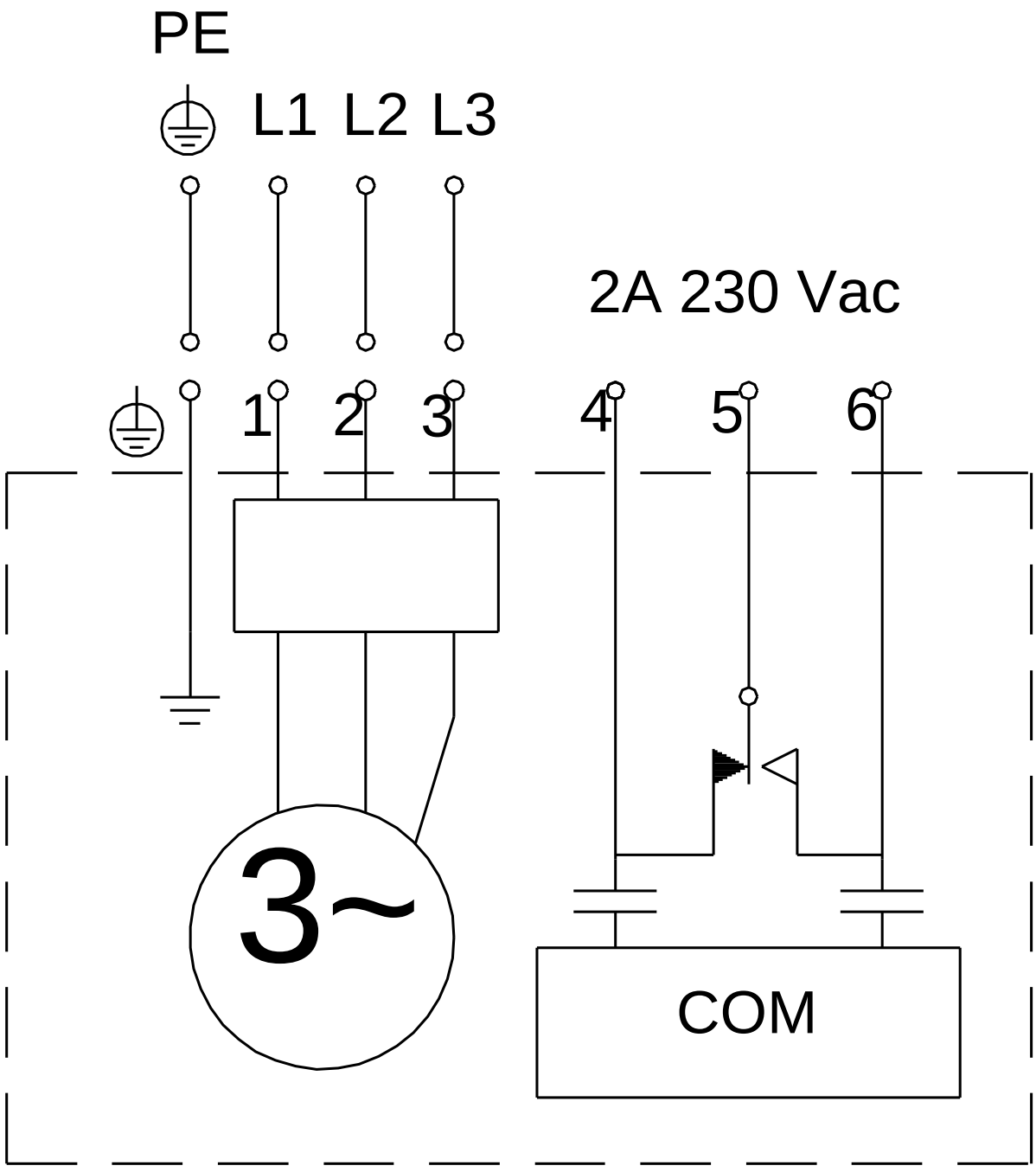
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 01/10/2020

96878458 SL1.50.65.15.E.2.50B 50 Hz



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