

PROJECT:	_____	UNIT TAG:	_____	QUANTITY:	_____
REPRESENTATIVE:	_____	TYPE OF SERVICE:	_____	DATE:	_____
ENGINEER:	_____	SUBMITTED BY:	_____	DATE:	_____
CONTRACTOR:	_____	APPROVED BY:	_____	DATE:	_____
		ORDER NO.:	_____	DATE:	_____

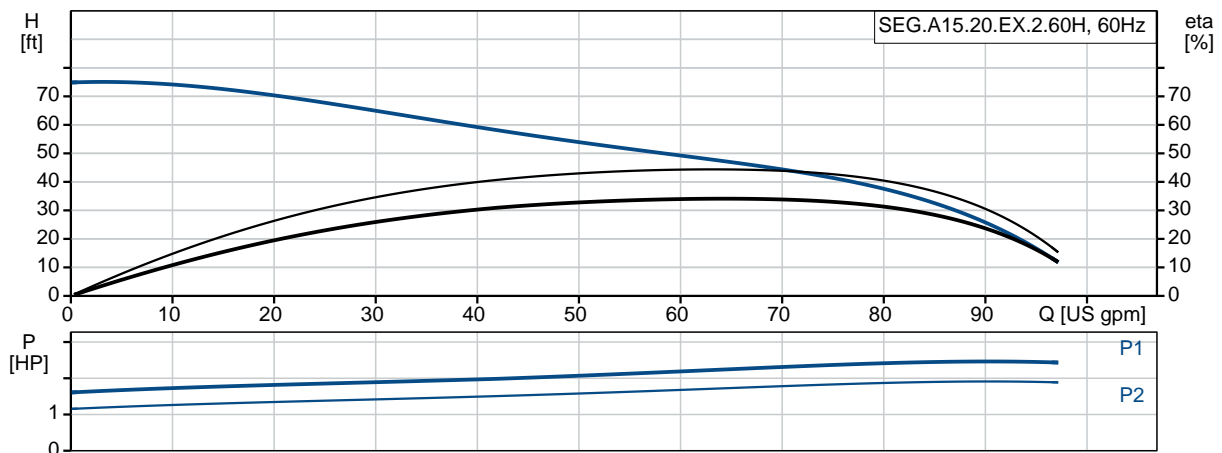


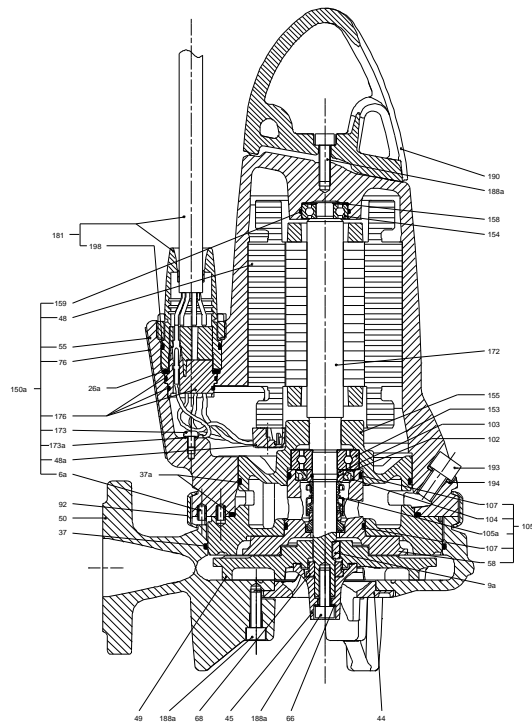
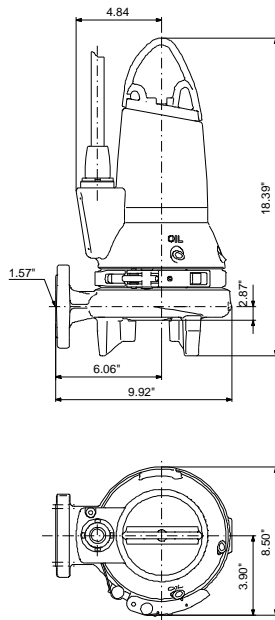
SEG.A15.20.EX.2.60H

Grinder pumps

Product photo could vary from the actual product

Conditions of Service	Pump Data	Motor Data
Flow: _____	Maximum operating pressure: 87 psi	Rated voltage: 460 V
Head: _____	Liquid temperature range: 32 .. 104 °F	Main frequency: 60 Hz
Efficiency: _____	Maximum ambient temperature: 104 °F	Number of poles: 2
Liquid: any viscous fluid	Approvals: PA-I, ATEX	Enclosure class: IP68
Temperature: _____	Flange standard: ANSI	Insulation class: F
NPSH required: ft	Product number: 98280871	Motor protection: THERMAL SWITCH
Viscosity: _____		Thermal protection: external
Specific Gravity: 1.000		






Materials:

Pump housing: Cast iron
EN1561 EN-GJL-200
ASTM A48 30B

Impeller: Cast iron
EN1561 EN-GJL-200
ASTM A48 30B

Count	Description
1	<p>SEG.A15.20.EX.2.60H</p>  <p>Product photo could vary from the actual product</p> <p>Product No.: 98280871</p> <p>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.</p> <p>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.</p> <p>For maintaining maximum pump efficiency during the pump life, a SmartTrim system allows easy adjustment of impeller clearance.</p> <p>Further product details</p> <p>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.</p> <p>The pump is designed for transfer of domestic and municipal wastewater:</p> <ul style="list-style-type: none"> - in sparsely populated areas - in small villages and farms - in areas of difficult topography - in areas with high groundwater <p>The pump can also remove industrial wastewater containing fibres in industrial applications, such as washing plants.</p> <p>Pump</p> <p>The pump is primarily made of cast iron with surface treatment of powder coating: black NCS9000N/RAL 9005, gloss 30, thickness 100 µ.</p> <p>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.</p>



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 CSA.

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 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: with moisture sensors
AUTOADAPT: NO

Liquid:

Pumped liquid: any viscous fluid
Liquid temperature range: 32 .. 104 °F
Density: 62.29 lb/ft³

Technical:



Company name: PFC EQUIPMENT

Created by:

Phone:

Date: 3/13/2019

Count	Description
	Type of impeller: Grinder System Primary shaft seal: SIC/SIC Secondary shaft seal: LIPSEAL Approvals on nameplate: PA-I, ATEX Curve tolerance: ANSI/HI11.6:2012 3B2 Materials: Pump housing: Cast iron EN1561 EN-GJL-200 ASTM A48 30B Impeller: Cast iron EN1561 EN-GJL-200 ASTM A48 30B Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 87 psi Flange standard: ANSI Pipework connection: 1 1/2" /2" Size of outlet port: 1 1/2 inch Pressure stage: PN 10 Maximum installation depth: 32.81 ft Auto-coupling: 98245788 Electrical data: Power input - P1: 1.9 kW Rated power - P2: 2 HP Main frequency: 60 Hz Rated voltage: 3 x 460 V Voltage tolerance: +6/-10 % Max starts per. hour: 30 Rated current: 4 A Starting current: 20 A Rated current at no load: 1.6 A Cos phi - power factor: 0.8 Cos phi - p.f. at 3/4 load: 0.75 Cos phi - p.f. at 1/2 load: 0.7 Rated speed: 3405 rpm Moment of inertia: 0.047 lb ft ² Motor efficiency at full load: 78 % Motor efficiency at 3/4 load: 76 % Motor efficiency at 1/2 load: 70 % Number of poles: 2 Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Explosion proof: yes Length of cable: 33 ft Cable type: SEOOW 600V Type of cable plug: NO PLUG



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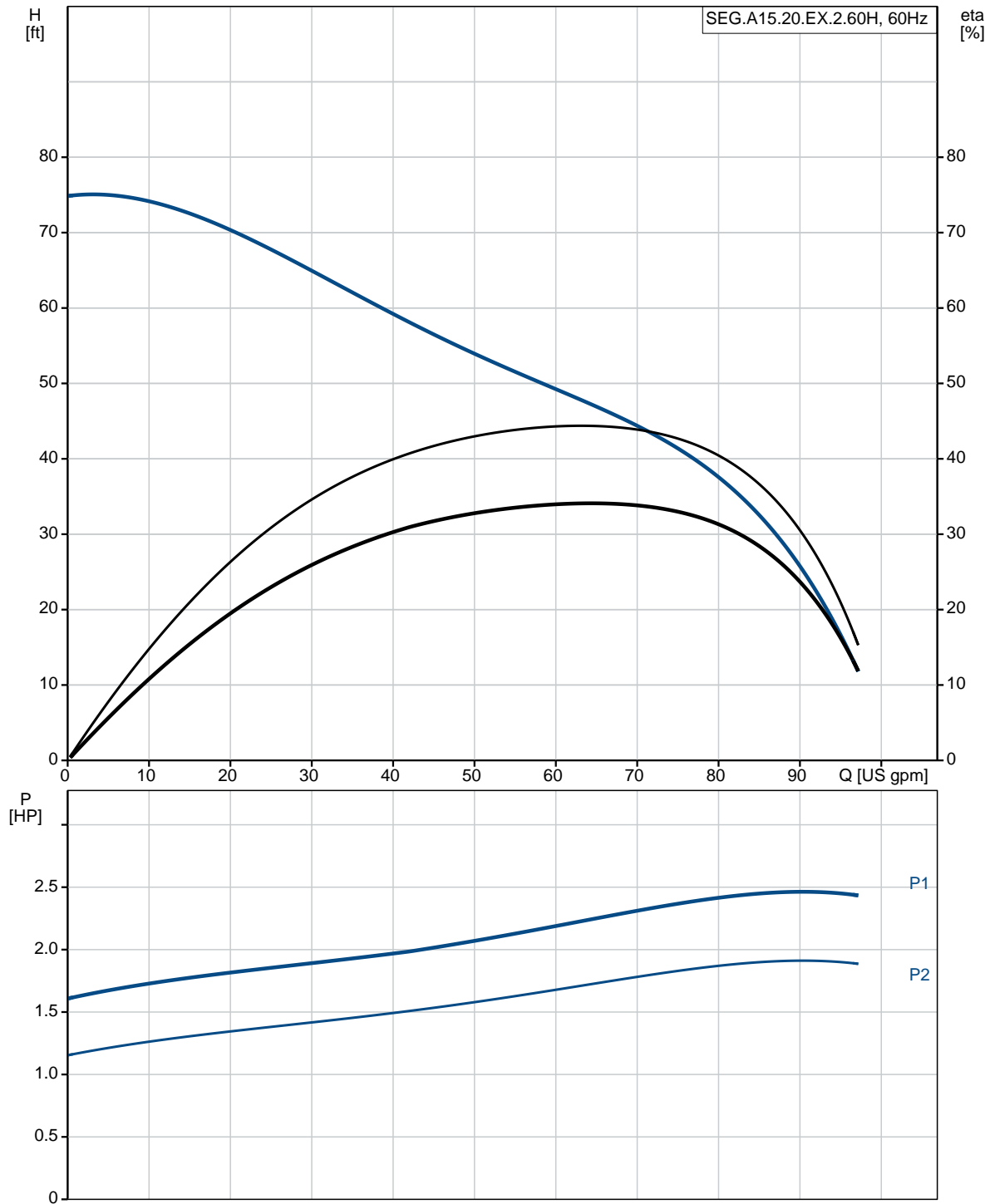
Count	Description
	Others: Net weight: 101 lb Country of origin: HU Custom tariff no.: 8413.70.2015



Company name: PFC EQUIPMENT
Created by:
Phone:

Date: 3/13/2019

98280871 SEG.A15.20.EX.2.60H 60 Hz





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Phone:

Date: 3/13/2019

Description	Value
Motor efficiency at 3/4 load:	76 %
Motor efficiency at 1/2 load:	70 %
Number of poles:	2
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	yes
Motor protection:	THERMAL SWITCH
Thermal protec:	external
Length of cable:	33 ft
Cable type:	SEOOOW 600V
Type of cable plug:	NO PLUG
Controls:	
Control box:	not included
Additional I/O:	External
Moisture sensor:	with moisture sensors
AUTOADAPT:	NO
Others:	
Net weight:	101 lb
Sales region:	Namreg
Country of origin:	HU
Custom tariff no.:	8413.70.2015



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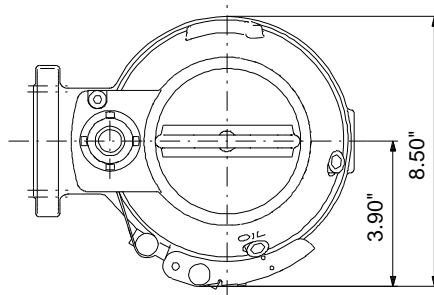
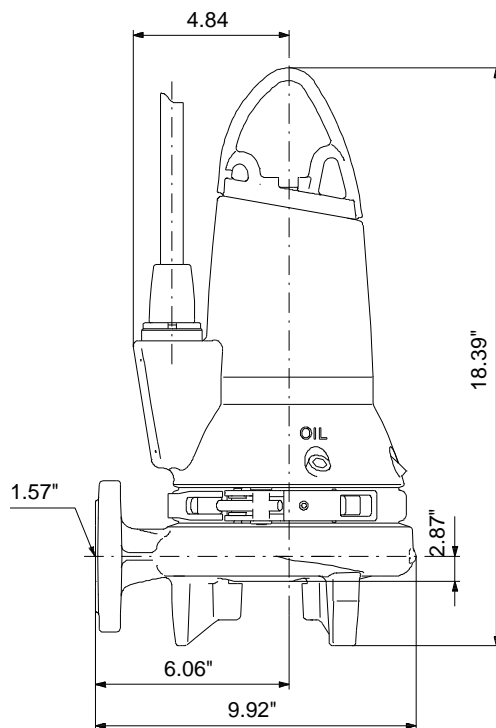
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3/13/2019

98280871 SEG.A15.20.EX.2.60H 60 Hz



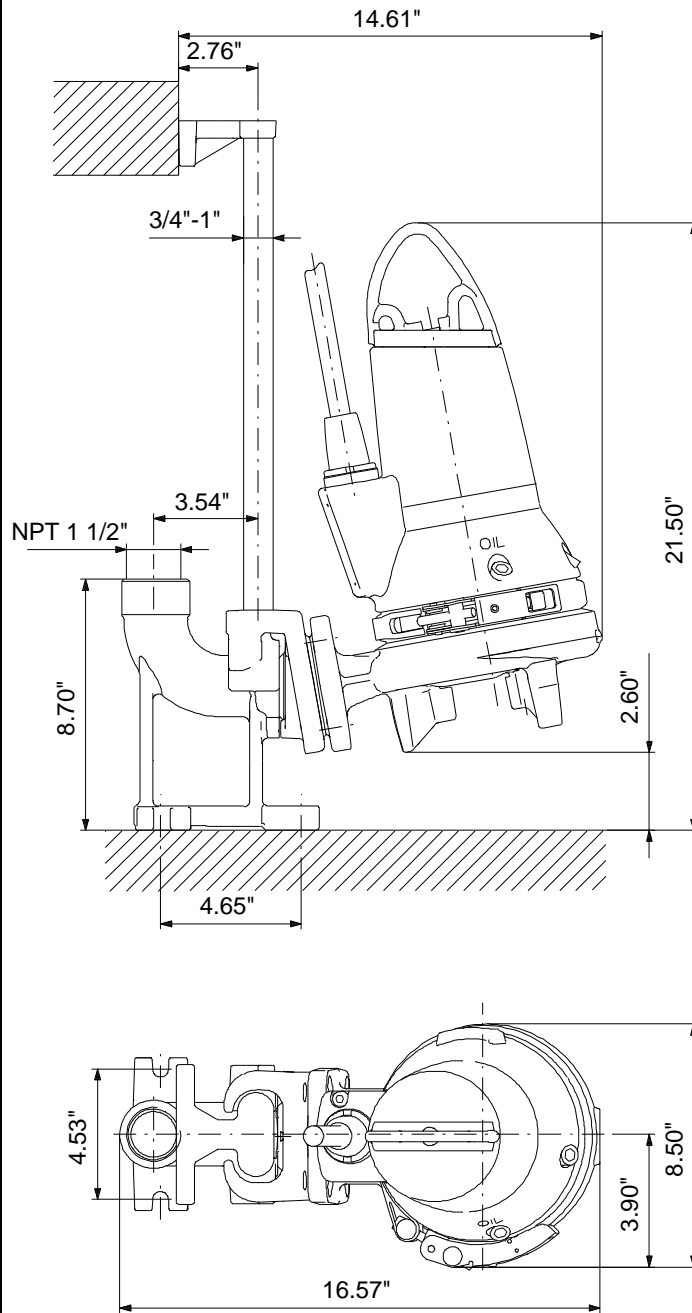
Note! All units are in [mm] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.



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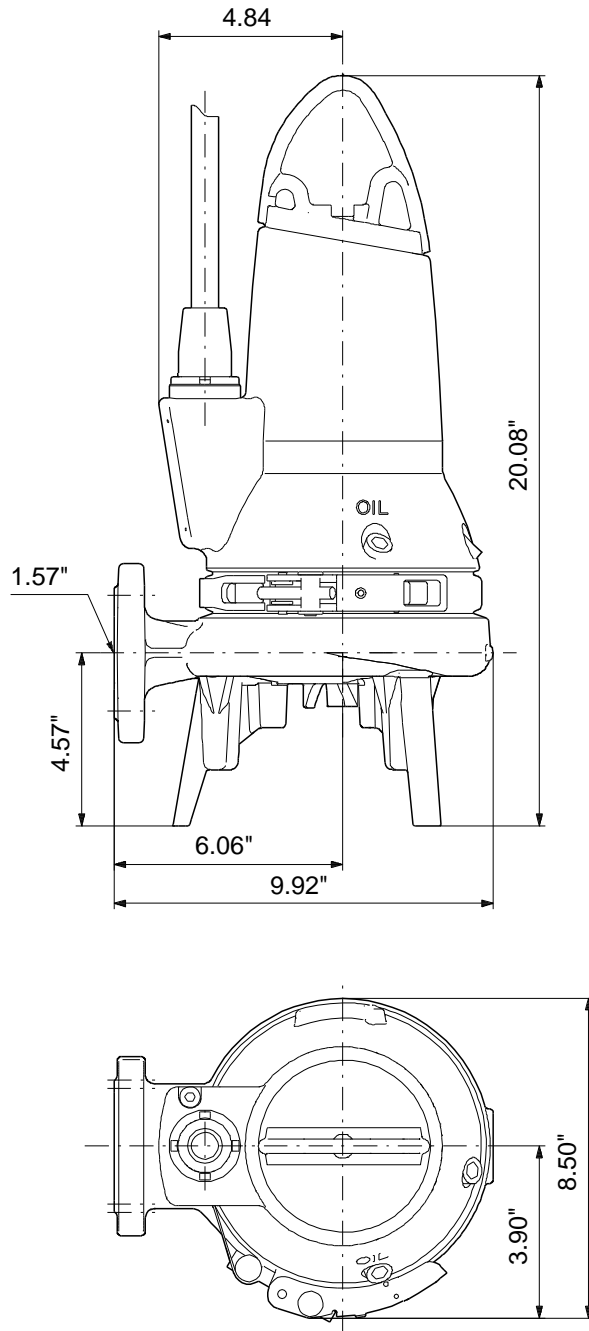
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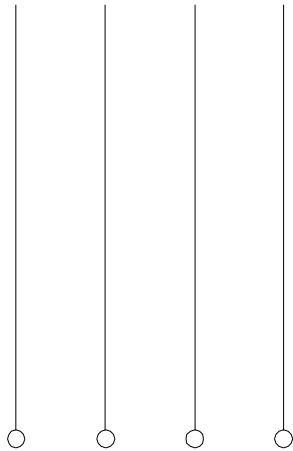
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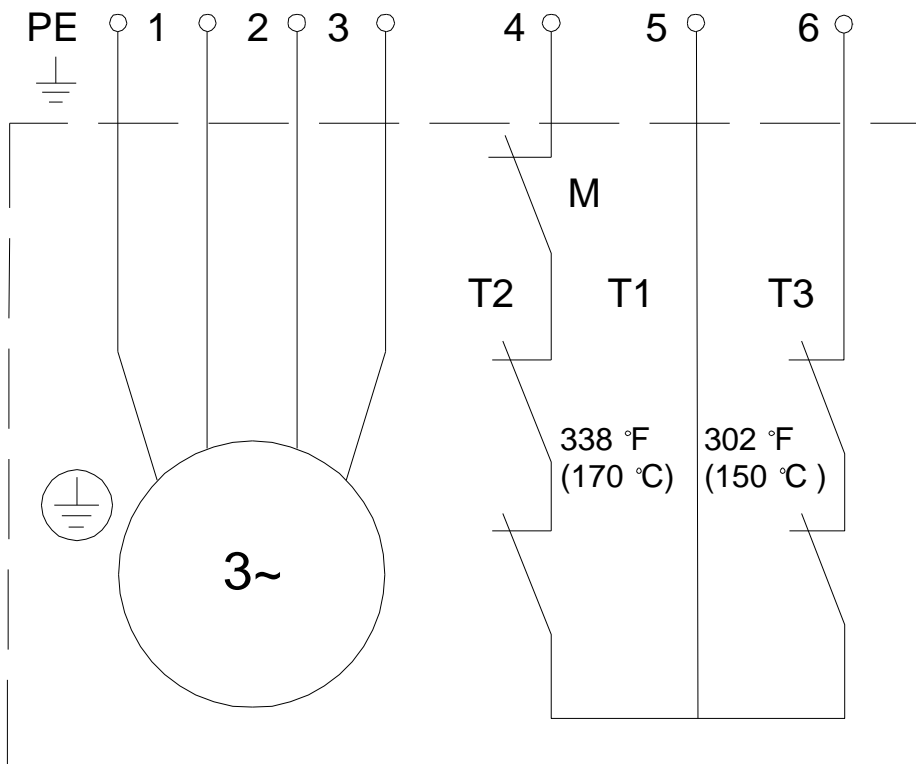
3/13/2019

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PE L1 L2 L3



PE 1 2 3 4 5 6



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