

ADDENDUM #2



PROJECT: Miami-Hillcrest Roundabout
BID NO: 19-005
FROM: Scott Murphy
DATE: February 18, 2019

Questions and Answers

1. *What mechanism of restraint is intended through the segments of restrained joint pipe?*
Answer: The intent is for a restrained joint pipe such as Certa-Lok or Eagle-Loc to be used through all areas called out on the plans to receive restrained pipe.
2. *The waterline 14"x14"x4" tee does not appear to be readily available, is there an acceptable alternative?*
Answer: A combination of tee and reducer may be utilized in this location. Please include the cost of both items on the 14"x14"x4" tee line item of the bid form.
3. *Will the City be providing any of the materials necessary for the water service relocations?*
Answer: The City will supply the meter pit lids and bonnets for all meter pits on this project, all remaining materials will be the responsibility of the contractor.
4. *Is any site specific as-built information available for the Stormceptor to be relocated? We are especially interested in what type of riser sections and rework of the penetrations will be necessary.*
Answer: The general geometry (48" diameter, 180 degree penetrations, flat lid) presented in the attachment to Addendum No. 1 apply to this specific stormceptor. The measured distance from manhole rim to pipe invert is approximately 6'-6", about the same as the new configuration. Of this 6'-6", 1.4' of this is made up with grade rings which will allow for adjustment to the new configuration without cutting of the manhole or addition of any new barrel sections. The existing penetrations are grouted ADS and CMP so these will need to be chipped out to accommodate the new penetrations.
5. *The relocated Stormceptor is planned to be located under existing overhead power, are these lines able to be de-energized during the relocation?*
Answer: Based on consultation with DMEA these lines may be de-energized but they would put the two churches and two residences out of service. As a result, they could not be de-energized for more than a few hours. The overhead lines are planned to be undergrounded through this area as part of the project; it is recommended that this undergrounding effort be completed prior to installation of the stormceptor. The alignment shown for the undergrounding on the plans is conceptual; these may be modified further south in order to avoid interference with the stormceptor installation, thus allowing the stormceptor to be installed after the power undergrounding effort without conflict.
6. *Upon further review of the project specifications and drawings, it appears there will be numerous conflicts with existing utilities. Although there are bid items to excavate and backfill for relocation, we do not know the extent of this work until the conflicts are identified along with the type of utility composition, i.e.; plastic, steel, etc. There is also a requirement of 3 weeks' notice to utility*

companies for relocation work. These unknowns and the required time for scheduling relocation work is cause for potholing the conflict areas prior to any construction work and also prior to road closure. Should the road be closed and discovery made for relocation, there could be as much as a three week delay which would take from the 150 days allowed for closure. Again, we would ask that a potholing item along with flagging hours be added so the conflicts could be identified and relocations scheduled prior to closure of the road.

Answer: It was the intention of the plans that potholing of utilities with the potential to be in conflict with planned improvements be performed early on in the roadway closure and following 811 utility locates, and for this work to be paid through existing lines on the bid form. We are generally confident in the scope of the utility relocation based on our own 811 utility locates during design, tracing of utilities, and project walks with utility owners. The intent of the three week notice is for the contractor to notify the affected utility companies of upcoming earthwork so they can prepare to perform their respective scopes of work soon after you get trenches opened up. If unknown utility conflicts requiring relocation are discovered beyond what is currently scoped in the plans these may be basis for additional compensation and closure time on a case by case basis depending on the nature of the relocation and its associated delay (e.g., whether it is on critical path for other project work, response time of the utility, etc.). Based on field walks with the utilities most communication lines appear to be direct bury. Power lines are generally cable in conduit or direct bury.

7. *Is a pumper truck needed for the concrete work?*

Answer: It is up to the contractor to determine methods for placement of the concrete. If they feel a pumper truck is needed, the cost for this should be included in the unit prices. A pumper truck was needed for most concrete pavement on the 2016 Sunnyside-Hillcrest roundabout due to inaccessibility created as a result of the large pours and the presence of dowels.

8. *I see the plans specify the concrete pavement as CDOT Class D. Was this meant to be Class P?*

Answer: During the 2016 Sunnyside-Hillcrest roundabout project we originally specified CDOT Class P and local suppliers came back recommending CDOT Class D for the same price. Assuming this would be the case again, we specified CDOT Class D on this project. That being said, either CDOT Class D or P would be acceptable for the concrete pavements.

9. *Do you have any additional specs for the Grundfos sump pump in the PRV vault?*

Answer: The sump pump shall be a Unilift KP, stainless steel. The cut sheet and specification are attached to this addendum.

Clarifications and Additions

1. None this addendum.

Plan Revisions

1. The recently-specified sump pump for the PRV vault has a 1-1/4" outlet. As a result, please modify the discharge line for the sump pump to be 1-1/4" instead of the 2" line originally specified on the plans.

Acknowledgement in Receipt of Addendum

FIRM NAME: _____

BY:(Printed) _____

BY:(Signature) _____ TITLE: _____

Note: A signed acknowledgement in receipt of this addendum **MUST** be included with your bid proposal.



GRUNDFOS UNILIFT

– Domestic wastewater solutions

UNILIFT KP is the preferred choice for your drainage needs: removal of grey water, agriculture applications, and more. It can also provide the pumping power to lift water, such as with waterfalls.

- Stainless steel materials
- Hermetically sealed stator
- Pumps up to 10mm solids
- Field replaceable power cords

UNILIFT CC is a low-suction drainage pump that features both lightness and strength, from low-lying points of buildings to surface water pits.

- Non-return valve with flexible discharge adaptor
- Built-in venting valve in handle
- Standard 8-ft cable length with built-in float switch
- Removes water to as low as 3mm

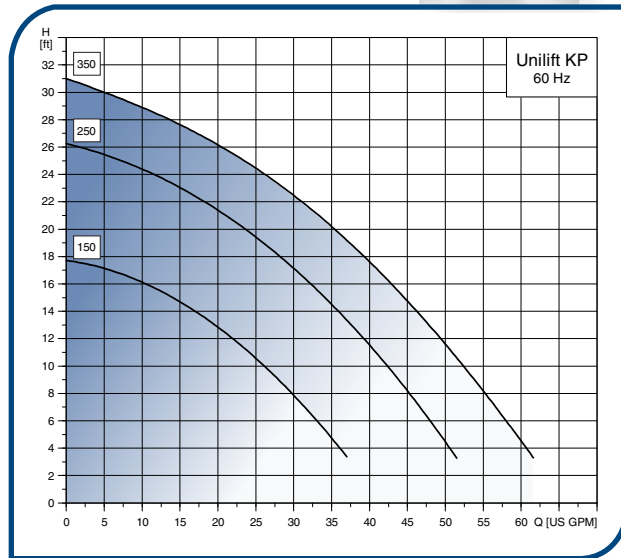


UNILIFT KP

Elegant in design
Proven in usage



Performance Curve:

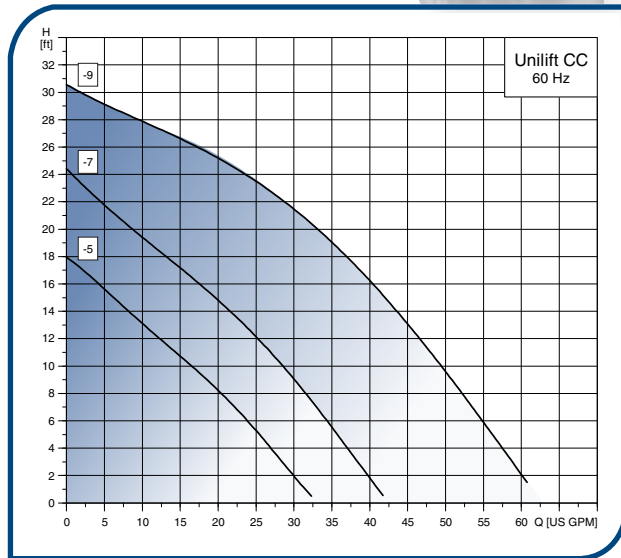


UNILIFT CC

Lightweight, strong and
multi-purpose



Performance Curve:



Pump Type	Volts	Material #
-----------	-------	------------

10 Foot Cable Length

Unilift KP 150 - M1	115	011DC001
Unilift KP 150 - A1	115	96847184
Unilift KP 250 - M1	115	012DC001
Unilift KP 250 - A1	115	96847186
Unilift KP 350 - M1	115	013DC001
Unilift KP 350 - A1	115	96847640

25 Foot Cable Length

Unilift KP 150 - M1	115	011DC201
Unilift KP 150 - A1	115	96847185
Unilift KP 250 - M1	115	012DC201
Unilift KP 250 - A1	115	96847425
Unilift KP 350 - M1	115	013DC201
Unilift KP 350 - A1	115	96847798

Pump Type	Volts	Material #
-----------	-------	------------

Unilift CC 5 - M1	115	96780906
Unilift CC 5 - A1	115	96781199
Unilift CC 7 - M1	115	96781212
Unilift CC 7 - A1	115	96781220
Unilift CC 9 - M1	115	96781221
Unilift CC 9 - A1	115	96781223
Unilift CC 5 - M1	230	96781224
Unilift CC 5 - A1	230	96781225
Unilift CC 7 - M1	230	96781229
Unilift CC 7 - A1	230	96781230
Unilift CC 9 - M1	230	96781231
Unilift CC 9 - A1	230	96781233

L-DWW-SL-02 5/09 (US)



Company name: -
 Created by: -
 Phone: -
 Fax: -
 Date: -

Position	Count	Description	Unit price
	1	<p>Unilift KP 250 Product No.: 012DC001 Submersible drainage pump</p> <p>Vertical single-stage stainless steel submersible pump with vertical discharge port and integrated submersible 1-phase canned motor in insulation class F with thermal overload protection.</p> <p>The pump is fitted with a suction strainer, a carrying handle and is supplied with a 10 ft mains cable.</p> <p>The impeller is a semi-open impeller for 33 ft. free passage suitable for pumping groundwater, surface water, rain water and similar liquids.</p> <p>The pump has a double shaft seal consisting of two lip seals with grease in-between.</p> <p>The pump has an outer casing ensuring continuous cooling of the motor by the pumped liquid. The rotor shaft operates in two maintenance-free carbon bearings cooled by the pumped liquid.</p> <p>The motor is filled with a non-toxic motor liquid.</p> <p>Liquid: Liquid temperature range: 32 .. 122 °F</p> <p>Technical: Type of impeller: Semi-open Approvals on nameplate: UL Listed, CSA</p> <p>Materials: Pump housing: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Installation: Pump outlet: 1 1/4" NPT Maximum installation depth: 32.8 ft</p> <p>Electrical data: Power input - P1: 480 W Main frequency: 60 Hz Rated voltage: 1 x 115 V Rated current: 4.9 A Starting current: 14.5 A Capacitor size - run: 20 µF/250 V Enclosure class (IEC 34-5): 68 Insulation class (IEC 85): F Length of cable: 10 ft Type of cable plug: US</p> <p>Others:</p>	On request



Company name: -
Created by: -
Phone: -
Fax: -
Date: -

Position	Count	Description	Unit price
		Shipping volume: 0.44 ft ³	



Position	Count	Description	Unit price
	1	<p data-bbox="354 342 511 363">Unilift KP 250</p> <div data-bbox="354 369 730 793" style="border: 1px solid black; text-align: center;">  </div> <p data-bbox="738 766 1234 787">Product photo could vary from the actual product</p> <p data-bbox="354 823 657 877">Product No.: 012DC001 Submersible drainage pump</p> <p data-bbox="354 909 1274 989">Vertical single-stage stainless steel submersible pump with vertical discharge port and integrated submersible 1-phase canned motor in insulation class F with thermal overload protection.</p> <p data-bbox="354 1020 1339 1075">The pump is fitted with a suction strainer, a carrying handle and is supplied with a 10 ft mains cable.</p> <p data-bbox="354 1106 1356 1161">The impeller is a semi-open impeller for 33 ft. free passage suitable for pumping groundwater, surface water, rain water and similar liquids.</p> <p data-bbox="354 1192 1258 1213">The pump has a double shaft seal consisting of two lip seals with grease in-between.</p> <p data-bbox="354 1245 1356 1325">The pump has an outer casing ensuring continuous cooling of the motor by the pumped liquid. The rotor shaft operates in two maintenance-free carbon bearings cooled by the pumped liquid.</p> <p data-bbox="354 1356 852 1377">The motor is filled with a non-toxic motor liquid.</p> <p data-bbox="354 1444 836 1499">Liquid: Liquid temperature range: 32 .. 122 °F</p> <p data-bbox="354 1530 885 1610">Technical: Type of impeller: Semi-open Approvals on nameplate: UL Listed, CSA</p> <p data-bbox="354 1642 917 1843">Materials: Pump housing: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p>	On request



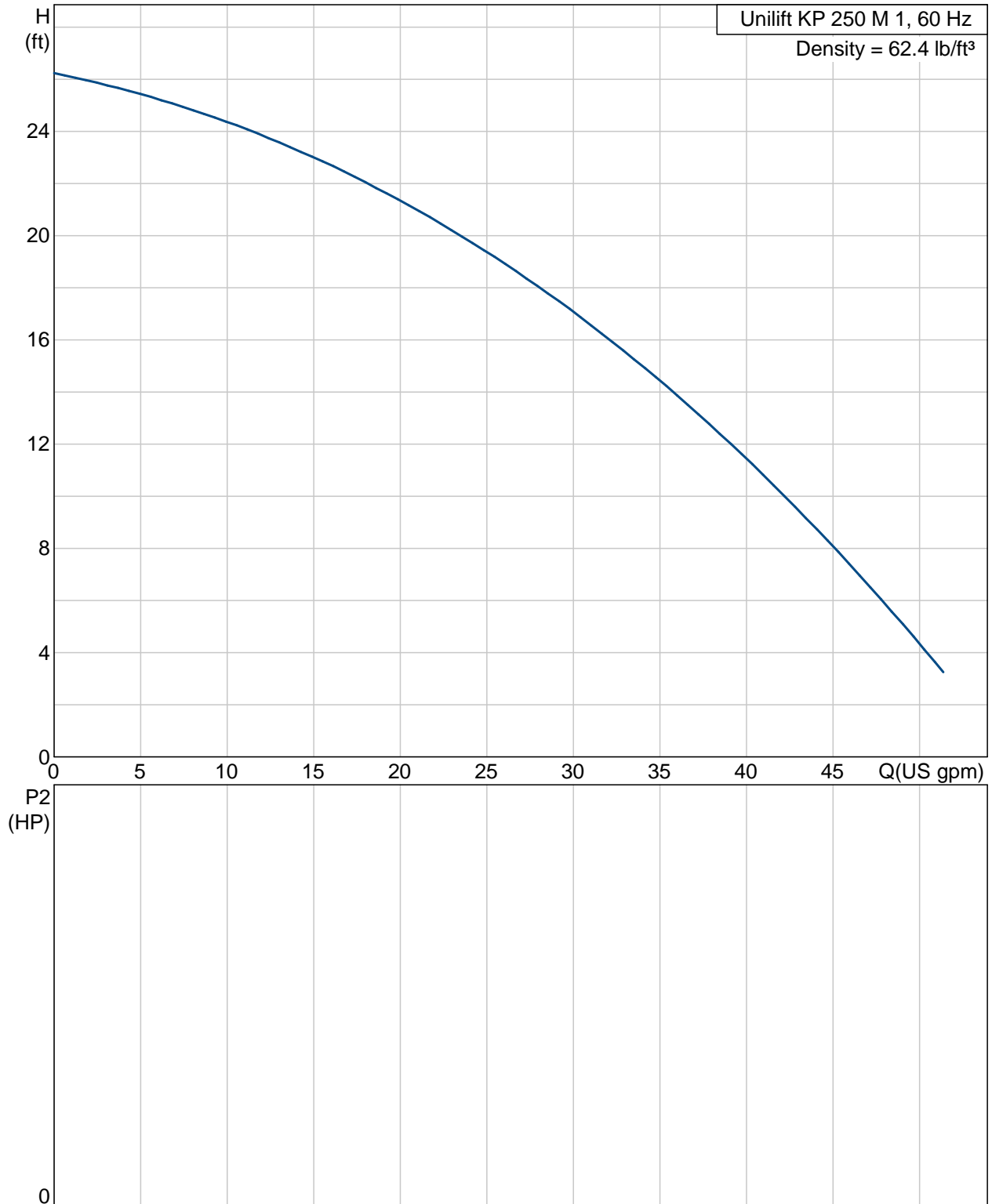
Company name: -
 Created by: -
 Phone: -
 Fax: -
 Date: -

Position	Count	Description	Unit price
		<p>Installation:</p> <p>Pump outlet: 1 1/4" NPT</p> <p>Maximum installation depth: 32.8 ft</p> <p>Electrical data:</p> <p>Power input - P1: 480 W</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 115 V</p> <p>Rated current: 4.9 A</p> <p>Starting current: 14.5 A</p> <p>Capacitor size - run: 20 µF/250 V</p> <p>Enclosure class (IEC 34-5): 68</p> <p>Insulation class (IEC 85): F</p> <p>Length of cable: 10 ft</p> <p>Type of cable plug: US</p> <p>Others:</p> <p>Shipping volume: 0.44 ft³</p>	

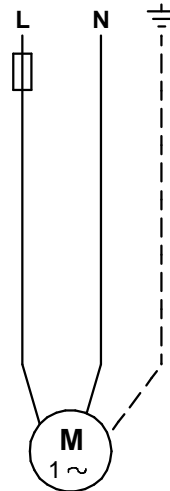
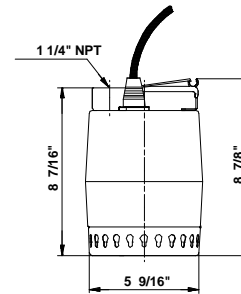
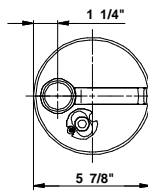
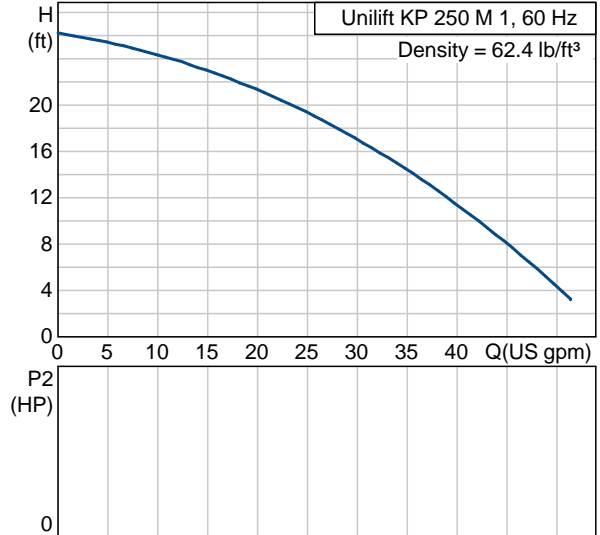


Company name: -
Created by: -
Phone: -
Fax: -
Date: -

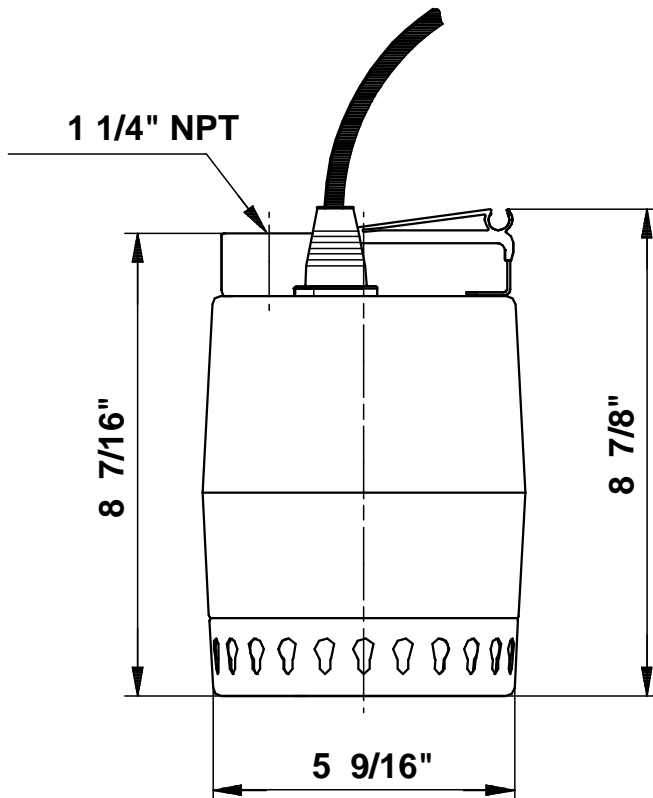
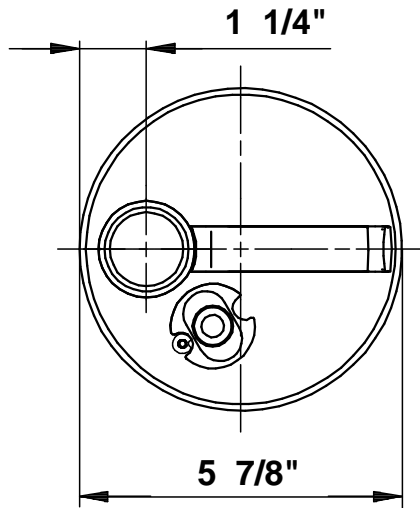
012DC001 Unilift KP 250 M 1 60 Hz



Description	Value
Product name:	Unilift KP 250 M 1
Product Number:	012DC001
EAN number:	5700391248122
Technical:	
Max flow:	50.6 US gpm
Head max:	26.2 ft
Type of impeller:	Semi-open
Approvals on nameplate:	UL Listed, CSA
Materials:	
Pump housing:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Installation:	
Pump outlet:	1 1/4" NPT
Maximum installation depth:	32.8 ft
Inst dry/wet:	D/S
Installation	horizontal or vertical
Liquid:	
Liquid temperature range	32 .. 122 °F
Electrical data:	
Power input - P1:	480 W
Main frequency:	60 Hz
Rated voltage:	1 x 115 V
Rated current:	4.9 A
Starting current	14.5 A
Capacitor size - run	20 µF/250 V
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Motor protection:	CONTACT
Thermal protec:	internal
Length of cable:	10 ft
Type of cable plug:	US
Others:	
Shipping volume:	0.44 ft³
Sales region:	Namreg

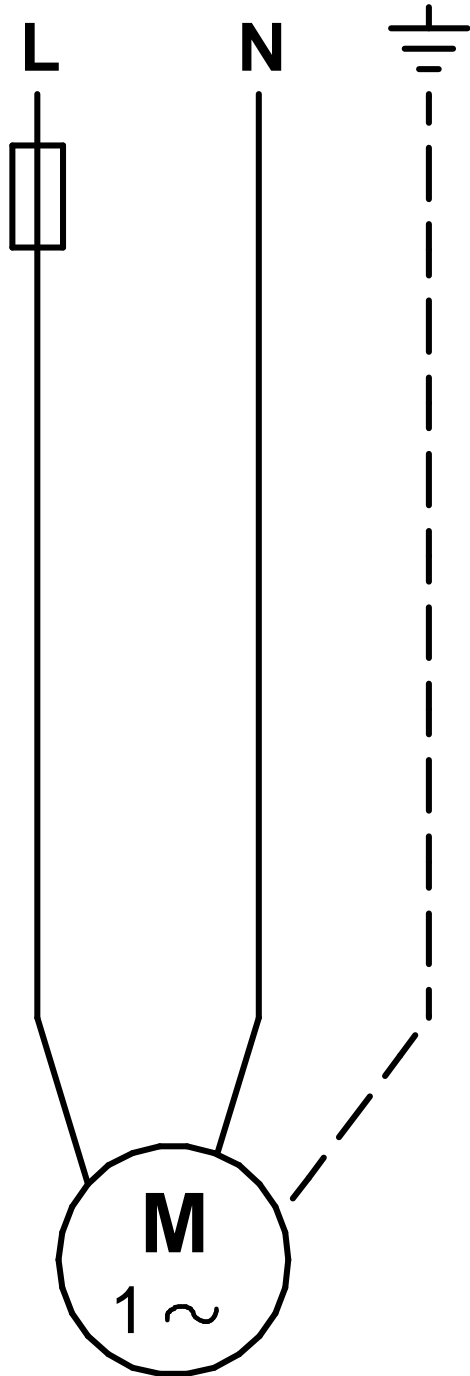


012DC001 Unilift KP 250 M 1 60 Hz



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

012DC001 Unilift KP 250 M 1 60 Hz



All units are [mm] unless otherwise presented.