



Bid Number 50-00138891

**Labor, Materials and Equipment Necessary to Provide and Install New
Pumps for the Department of General Services**

BID DUE: July 11, 2022 AT 11:00 AM

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received on the Purchasing Department's eProcurement site, www.jeffparishbids.net, by the bid due date and time. Late bids will not be accepted.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053
Buyer Name: Mark Buttery
Buyer Email: MButtery@jeffparish.net
Buyer Phone: 504-364-2810**

DATE: 6/23/2022

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 5

BID NO.: 50-00138891

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR: _____

BUYER: MBUTTERY

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>30 DAYS</u>
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>40 DAYS</u>
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>60 DAYS</u>

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form by placing the addendum number as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____
NUMBER: _____
NUMBER: _____
NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) 08499

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***	
FIRM NAME: <u>PRECISION P.S.I. LLC</u>	
SIGNATURE: <u>[Signature]</u> (Must be signed here)	TITLE: <u>MANAGING PARTNER</u>
PRINT OR TYPE NAME: <u>PATRICK SANDERS JR.</u>	
ADDRESS: <u>2318 KINGSTON STREET</u>	
CITY, STATE: <u>Kenner, LA</u>	ZIP: <u>70062</u>
TELEPHONE: <u>(504) 469-8481</u>	FAX: <u>(504) 469-8482</u>
EMAIL ADDRESS: <u>ACCOUNTING@PRECISION-PSI.COM</u>	

TOTAL PRICE OF ALL BID ITEMS: \$ 14,796.75

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00138891

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	JOB	<p>Labor, Materials and Equipment Necessary to Provide and Install New Pumps for the Department of General Services</p>	\$14,796.75	\$14,796.75
			<p>0010 - PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH & INSTALL TWO (2) NEW 2HP SUBMERSIBLE GRINDER PUMPS, INSTALL PUMPS ON EXISTING GUIDE RAIL BRACKETS. FURNISH AND INSTALL ONE (1) DUPLEX CONTROL PANEL WITH FLOATS AND FLOAT BRACKET. TEST RUN THE SYSTEM FOR NORMAL OPERATION.</p> <p>NEEDED TO FURNISH AND INSTALL NEW LIFT STATION PUMPS AND CONTROLLER AT 128 WRIGHT AVENUE GRETNA, LA 70053</p> <p>REF NO. 2977 22 ORDERED BY/FOR: PEART/KENNEDY</p> <p>SITE VISIT CONTACT: KRAIG KENNEDY (504)364-2692 KKENNEDY@JEFFPARISH.NET</p>		\$14,796.75

Request for Taxpayer Identification Number and Certification

Give Form to the
 requester. Do not
 send to the IRS.

Print or type
 See Specific instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Precision PSI LLC	
2 Business name/disregarded entity name, if different from above (Blank)	
3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ <u>S</u> Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
5 Address (number, street, and apt. or suite no.) P O Box 640297	Requester's name and address (optional) (Blank)
6 City, state, and ZIP code Kenner, Louisiana 70064	
7 List account number(s) here (optional) (Blank)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number																
<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>					-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>					-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>				
OR																
Employer identification number																
8	3	-	1	5	7											
0	5	2	9													

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶ <u>01.03.2022</u>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/irw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1099-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

07/11/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Eagan Insurance Agency, LLC 2629 N. Causeway Blvd. P. O. Box 8590 Metairie LA 70002		CONTACT NAME: Liz Asher, CIC PHONE (A/C, No. Ext): (504) 836-9600 FAX (A/C, No): (504) 836-9621 E-MAIL ADDRESS: asherl@eaganins.com	
INSURED Precision PSI, LLC 2318 Kingston Street Kenner LA 70062		INSURER(S) AFFORDING COVERAGE INSURER A: United Fire Indemity Comp NAIC # 19496 INSURER B: AIG Specialty Ins.Co. 26883 INSURER C: Bridgefield Employers Ins Company 10701 INSURER D: INSURER E: INSURER F:	

COVERAGES

CERTIFICATE NUMBER: CL2231062226

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADUL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			85326698	03/12/2022	03/12/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			85326698	03/12/2022	03/12/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			BE067342030	03/12/2022	03/12/2023	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	0830-57096	03/12/2022	03/12/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate holder: Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council

Blanket additional insured applies with respect to General Liability and Auto Liability when required by written contract with the named insured. Blanket waiver of subrogation applies with respect to General Liability, Auto Liability and Workers Comp when required by written contract with the named insured.

CERTIFICATE HOLDER**CANCELLATION**

Jefferson Parish, its Districts, Depts & Agencies 1221 Elmwood Pkwy Blvd Jefferson LA 70123	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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FOR PUBLIC DISPLAY - NOT TRANSFERABLE

Sales Tax Exemption Registration Certificate

Certificate # 2635604

PRECISION PSI LLC
PO BOX 640297
KENNER, LA 70064

Account # 11020673



Location Address

2318 KINGSTON ST
KENNER, LA

CERTIFICATE VALID DURING PERIOD

Business Activity Classification 811219
Other Electronic and Precision Equipment Repair and Maintenance
Other Services (except Public Administration)

From 01-MAY-2021
Thru 30-APR-2022

JOSEPH P. LOPINTO, III
SHERIFF & TAX COLLECTOR

Gregory A. Ruppert, Director
Bureau of Revenue and Taxation

LOCATION AND BUSINESS ACTIVITY

VOID IF ALTERED

This certificate is valid only when the location address and business activity classification shown above are correct. If not correct, this certificate must be returned and a new certificate issued.

CONDITIONS FOR USE

Under provisions of the Jefferson Parish Code of Ordinances, more particularly Chapter 35, Article II, Section 35-16, the dealer referenced hereinabove is registered with the Jefferson Parish Sheriff's Office, Bureau of Revenue and Taxation, for the collection and remittance of sales/use taxes levied by the Parish of Jefferson.

The person presenting this certificate acknowledges that he is an authorized representative of the dealer named herein and hereby certifies that the items purchased under the authority of this certificate are for resale in the regular course of business, as described in the business activity classification stated above and without intervening use, or for use as a recognizable, identifiable, and beneficial component part of a new article of tangible personal property produced for sale. The person presenting this certificate further understands that the dealer named herein, or he personally, may be held liable for taxes due and/or be subject to criminal prosecution resulting from the erroneous or fraudulent use of this certificate.

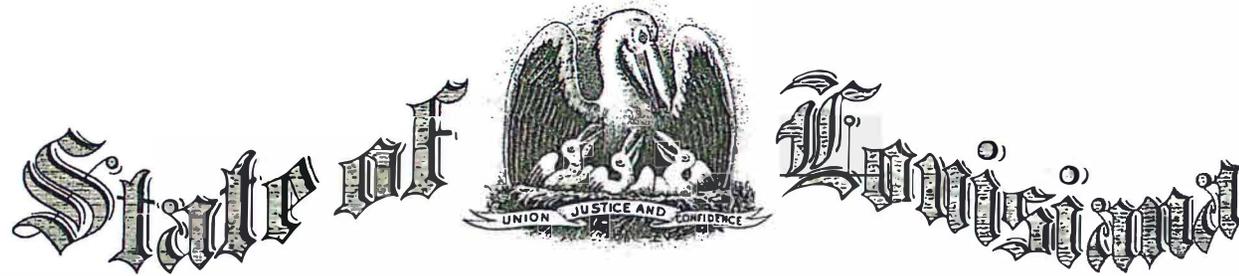
Dealers accepting this certificate, in good faith, on purchases it would reasonably assume qualify for the above referenced exemption, shall not be responsible for the collection of Jefferson Parish sales tax on the transactions for which this certificate has been submitted. Dealers should retain a copy of this certificate whenever making sales for which the exemption herein is claimed.

Please renew this certificate within 30 days of expiration via the online renewal process available through E-Services at www.jpso.com.

Signature of Authorized Agent

4.22.2021
Date

ISSUED BY
SHERIFF AND EX-OFFICIO TAX COLLECTOR-JEFFERSON PARISH, LOUISIANA



State Licensing Board for Contractors

This is to Certify that: PRECISION P.S.I., L.L.C.
2318 Kingston Street
Kenner, LA 70062

is duly licensed and entitled to practice the following classifications

SPECIALTY: INSTALLATION OF EQUIPMENT, MACHINERY AND ENGINES



Witness our hand and seal of the Board dated,
Baton Rouge, LA 24th day of May 2020

W. B. Moore
Director

Lee Mallett
Chairman

Andy Demme
Treasurer

Expiration Date: May 23, 2023

License No: 68499

This License Is Not Transferrable



K. Kyle Ardoin
SECRETARY OF STATE

As Secretary of State of the State of Louisiana I do hereby Certify that

PRECISION P.S.I., L.L.C.

A limited liability company domiciled in METAIRIE, LOUISIANA,

Filed charter and qualified to do business in this State on July 31, 2018,

I further certify that the records of this Office indicate the company has paid all fees due the Secretary of State, and so far as the Office of the Secretary of State is concerned, is in good standing and is authorized to do business in this State.

I further certify that this certificate is not intended to reflect the financial condition of this company since this information is not available from the records of this Office.

In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

April 8, 2019

Secretary of State

Web 43150735K



Certificate ID: 11064128#DFG82

To validate this certificate, visit the following web site, go to Business Services, Search for Louisiana Business Filings, Validate a Certificate, then follow the instructions displayed.
www.sos.la.gov



City of Kenner

1801 Williams Blvd
Kenner, LA 70062

PRECISION P.S.I.
2318 KINGSTON STREET
KENNER, LA 70062

**** NOTICE ****

This license becomes null & void if ownership, business name or address is changed. Licensee must apply within 10 days of such change for transfer. Fee will apply. All applicable building & zoning regulations pertaining to business location must be followed.

PRECISION P.S.I., LLC
2318 KINGSTON STREET
KENNER, LA 70062

2022

Business License ID

27220

Type

LIMITED LIABILITY COMPANY
INDUSTRIAL EQUIP SVC & SALES

Business License

Number

18016

Issued

03/08/2022

Valid thru

12/31/2022

***** POST THIS LICENSE IN A CONSPICUOUS PLACE *****

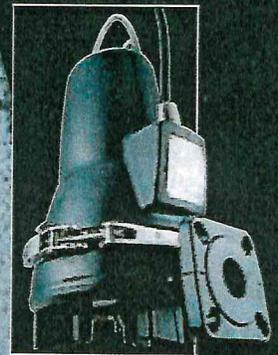
GRUNDFOS **SEG RANGE**

Grinder pumps 2-5.5 Hp

THE SEG RANGE:

BUILT TOUGH AND VERSATILE FOR YOUR NEEDS

Grinder pumps for municipal and commercial sewage transfer



be
think
innovate

GRUNDFOS

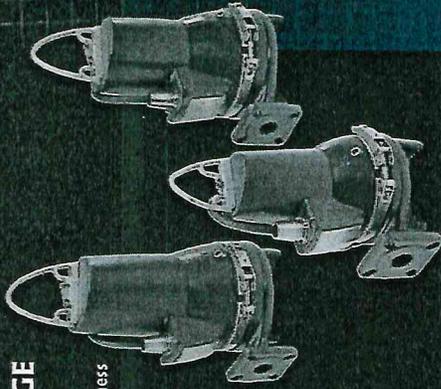
THE PERFECT PUMP FOR SEWAGE AND EFFLUENT TRANSFER

Designed for dependability, efficiency and cost-effectiveness

The SEG range of grinder pumps from Grundfos is specifically designed for pumping effluent and untreated sewage in small communities or sparsely populated areas with no sewer systems or where gravitation systems are unsuitable.

Pressurized systems are the perfect choice for transfer of effluent and domestic sewage, and the SEG range combines cost-effectiveness with maximum protection for the environment by facilitating the use of smaller pressure pipes for minimal investment costs.

The SEG range is designed to reduce energy consumption and to keep downtime costs to a minimum, while maintaining peak performance throughout the lifetime of the system.



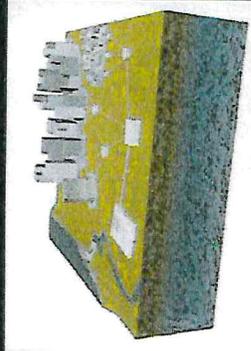
PRESSURIZED SYSTEMS FOR SEWAGE TRANSFER

Ideal for sparsely populated areas where gravity sewage systems are not available

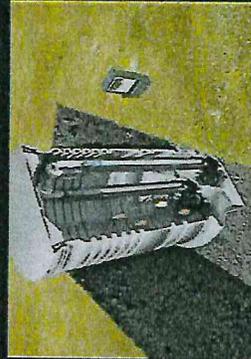
- Commercial/Building Services
- Municipalities
- Areas with high groundwater
- Industry

The SEG pumps are designed for use in:

- Small towns
- Farm areas and areas of difficult topography, such as rocky terrains



SEG pumps can be used for intermittent or continuous operation throughout the water cycle. See examples online.



Installation options include submersion of installation on outlet coupling with gaskets.

SEG PUMP FEATURES

— and what they do for you



Water-tight cable plug
The plug has the cable strain-
less steel cable connected to it.
It is automatically sealed, ensuring
that liquid cannot penetrate
through the cable into the
motor.



Double mechanical shaft seal
Efficient triple-unit cartridge
shaft seal system ensures longer
operation time with less down-
time and is easy to replace in
the field, without the need for
special tools.



Stainless steel clamp
Unique clamp assembly
system with safety lock for
quick and easy disassembly
of pump from motor unit,
where no tools are required.



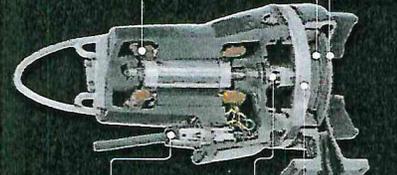
Motor protection
Built-in thermal switches
in the motor windings
provide protection
against overheating,
and this ensures a long
lifetime.



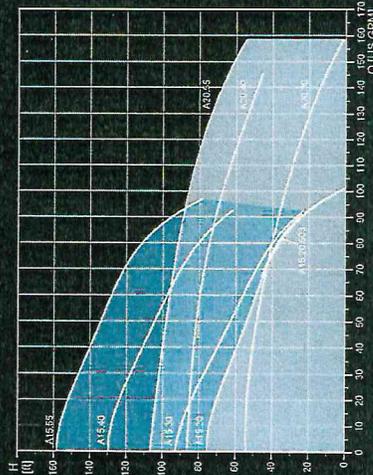
Efficient grinding system
Patented grinding system en-
sures extremely high efficiency
and reliable operation with
quick and easy dismantling for
replacement of wear parts. No
special tools are required.



Smart trimmer adjustment
Patented smart trimmer system enables
quick and easy impeller clearance
adjustment in order to maintain peak
performance and this can be done
without dismantling the pump. No
special tools are required.



Performance overview



The curves apply to CSA approved recording to U176 and C172, no 103.

- The Grundfos patented SEG grinder system has many advantages:
- easy service
 - reliable grinding
 - efficient grinding of solids down to even smaller pieces
 - only one screw for the stationary grinder
 - only one additional screw for the rotary grinder



Grundfos Water Utility — optimized water solutions

Grundfos Water Utility is a full-range supplier of intelligent pumps and systems for all water supply and wastewater applications. We optimize pumping solutions to provide maximum reliability and resource efficiency for our customers. Our solutions are made with tried and tested technology and our expertise is part of any delivery.

We offer solutions and expertise within the following applications:

- Raw Water Intake
- Drinking Water Treatment
- Water Distribution
- Wastewater Transport and Flood Control
- Wastewater Treatment

Our products are the result of decades of engineering expertise. Supported by a worldwide service network. Visit www.grundfos.com/water-utility for more.

LWU-SL-00710-13 (US)

GRUNDFOS Chicago
3905 Enterprise Drive
Aurora, IL 60504
Tel: 1-800-921-7867

GRUNDFOS Canada
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Phone: (905) 829-9533
Fax: (905) 829-9512

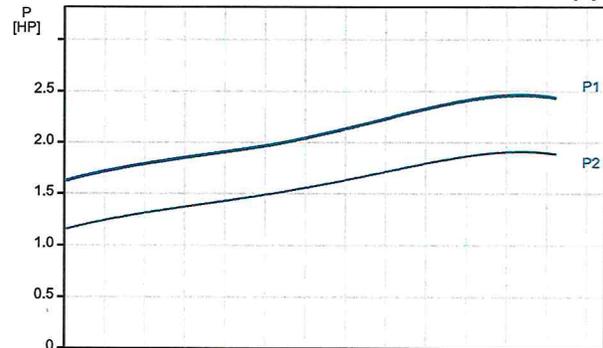
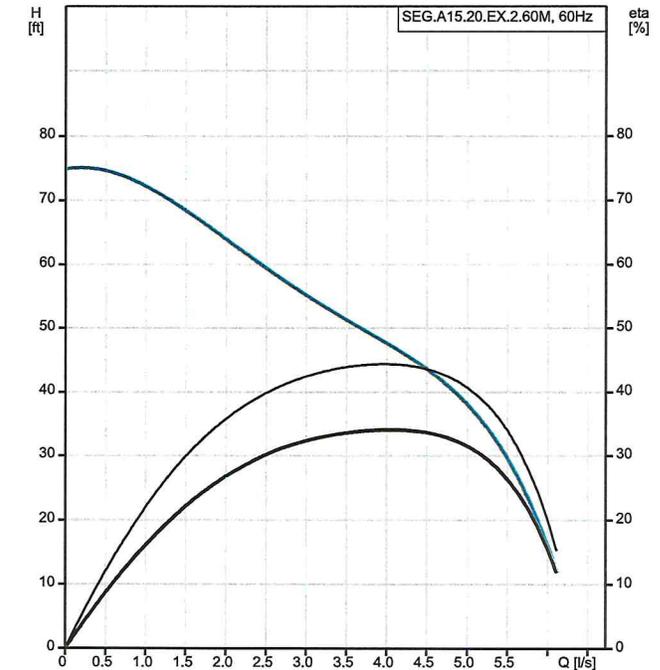
GRUNDFOS Mexico
Boulevard TLC No. 15
Parque Industrial Stiva Aeropuerto
C.P. 66600 Apodaca, N.L. Mexico
Phone: 011-52-81-8144 4000
Fax: 011-52-81-8144 4010

www.grundfos.us

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GRUNDFOS 

Description	Value
General information:	
Product name:	SEG.A15.20.EX.2.60M
Product No.:	98280852
EAN:	5711492381236
Technical:	
Max flow:	6.11 l/s
Max flow:	6.11 l/s
Head max:	74.81 ft
Type of impeller:	Grinder System
Primary shaft seal:	SIC/SIC
Approvals on nameplate:	CSA, FM
Curve tolerance:	ANSI/HI11.6:2017 3B2
Materials:	
Pump housing:	Cast iron
Pump housing:	EN1561 EN-GJL-200
Pump housing:	ASTM ASTM A48 30B
Impeller:	Cast iron
Impeller:	EN1561 EN-GJL-200
Impeller:	ASTM ASTM A48 30B
Installation:	
t max amb:	104 °F
Maximum operating pressure:	87.02 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:	32.8 ft
Inst dry/wet:	SUBMERGED
Auto-coupling:	98245788
Liquid:	
Liquid temperature range:	32 .. 104 °F
Density:	62.29 lb/ft ³
Electrical data:	
Power input - P1:	1.9 kW
Rated power - P2:	2 HP
Main frequency:	60 Hz
Rated voltage:	3 x 200-230 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	8-7 A
Starting current:	40 A
Rated current at no load:	4.1 A
Cos phi - power factor:	0.793
Cos phi - p.f. at 3/4 load:	0.692
Cos phi - p.f. at 1/2 load:	0.553
Rated speed:	3422 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:	69 %
Number of poles:	2
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	yes
Built-in motor protection:	THERMAL SWITCH
Thermal protec:	external
Length of cable:	33 ft
Cable type:	SEOOW 600V
Type of cable plug:	No plug
Controls:	
Control box:	not included
Additional I/O:	External
Moisture sensor:	with moisture sensors
AUTOADAPT:	NO





Company name:

Created by:

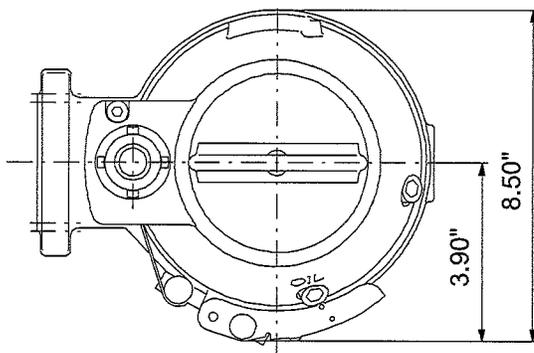
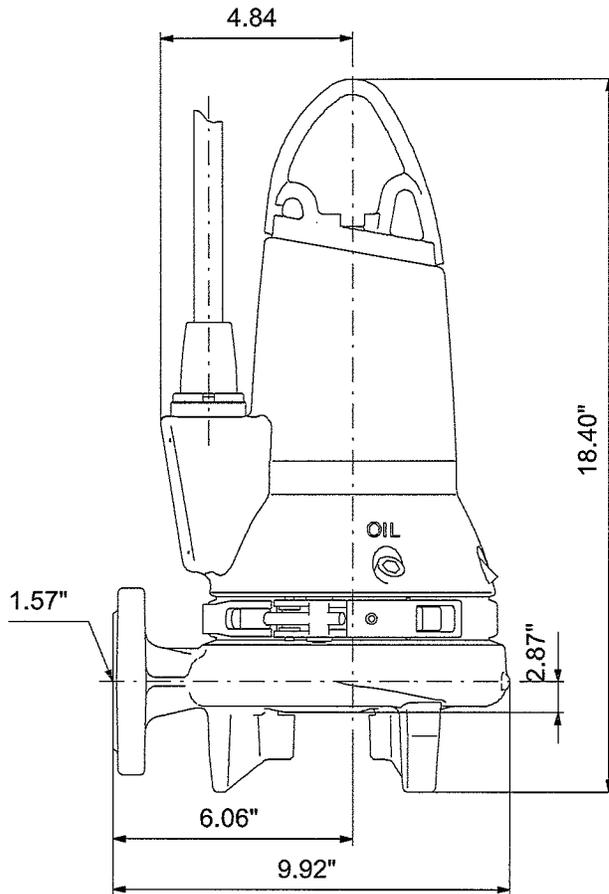
Phone:

Date:

5/6/2022

Description	Value
Others:	
Net weight:	101 lb
Sales region:	Namreg
Country of origin:	HU
Custom tariff no.:	8413.70.2004

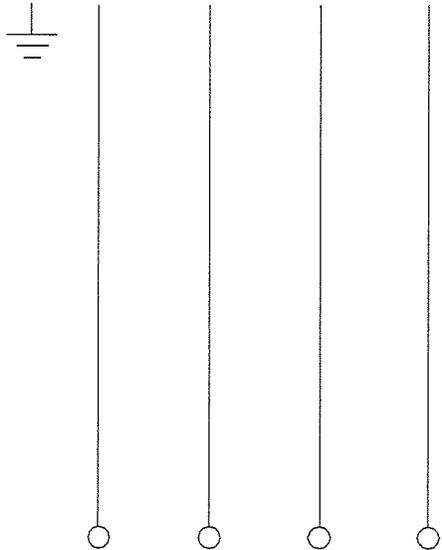
98280852 SEG.A15.20.EX.2.60M 60 Hz



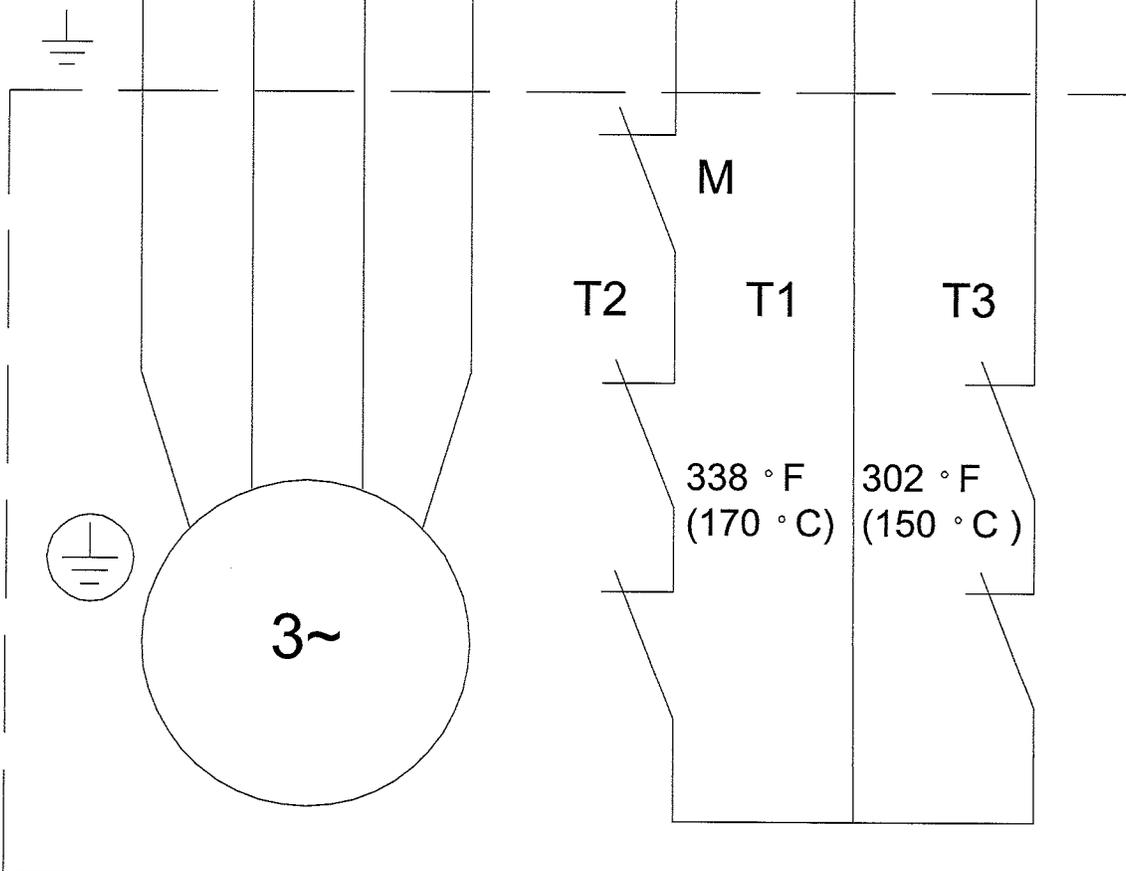
Note! All units are in [in] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.

98280852 SEG.A15.20.EX.2.60M 60 Hz

PE L1 L2 L3



PE 1 2 3 4 5 6



CONTROLLING YOUR PUMPS HAS NEVER BEEN EASIER

SIMPLEX AND DUPLEX CONTROL PANELS FOR
EMPTYING AND FILLING APPLICATIONS



SET UP AND CONFIGURE WITH EASE

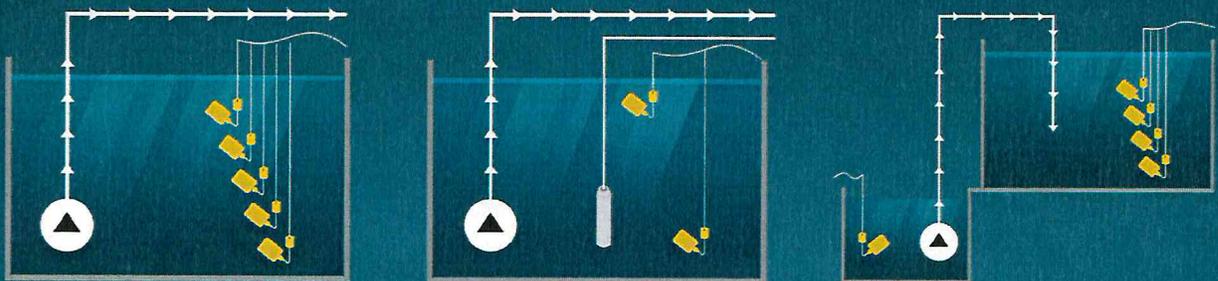
Designed for one-or two-pump control, the Grundfos LC panel line is ideal for a wide range of emptying and filling applications including: wastewater lift stations, stormwater stations, commercial building and industrial sumps, drainage and tank fill applications.

The controller is equipped with predefined settings for an easier and quicker start-up, and supports up to five control levels for analog level transmission or float switch operation.

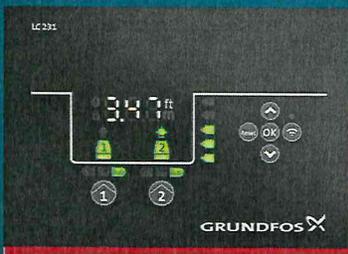
Start and stop signals are used for normal operation, and the optional dry run signal will protect the pumps from dry running. The controller has two modes: EMPTYING or FILLING.

Grundfos LC panels are available in two variants:
LC 231 – a compact solution with certified motor protection
LC 241 – a modular panel with a dead front offering options for customization

MANY FLOAT AND SUBMERSIBLE TRANSDUCER CONFIGURATIONS AVAILABLE



FLEXIBLE AND USER-FRIENDLY INTERFACE

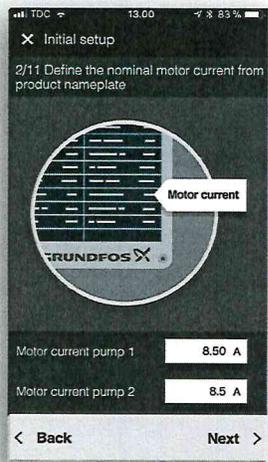


Save valuable time with the intuitive and easy-to-use interface. The LC control system is equipped with configurable input/output terminals, offering flexibility for all applications. Daily control, supervision and commissioning is simple and straightforward.

Additionally, the controller is able to integrate into Supervisory Control and Data Acquisition (SCADA) systems.

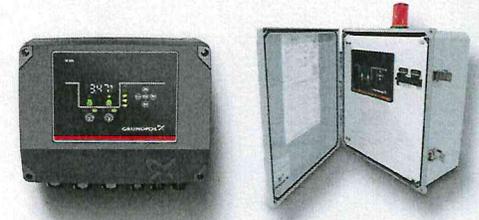
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GRUNDFOS
GO REMOTE**
AVAILABLE ON APPLE
IOS AND GOOGLE PLAY

**THE ONLY
CONTROLLER
FOR LIFE
ON THE GO**



CONFIGURATION OVERVIEW

Grundfos LC level controllers are available in two variants.



LC 231
A compact solution with certified motor protection

LC 241
A cabinet solution offering modularity and customization

Set up and configure your LC controller through the Grundfos GO mobile app. Using Bluetooth technology, Grundfos controllers offer easy and seamless integration so you don't have to be on site to connect, monitor or manage your pump station.

The simple and intuitive dashboard displays your installation status where you can monitor the pit and pumps at a glance. View priority areas faster with shortcuts to alarms and warnings, manual pump control and a detailed pump status.

You can also generate a complete report that shows the settings and status of the installation.

Optional features such as anti-seizing or power-on delay can be adjusted. Grundfos GO can also be used to store the complete settings for your pumping station or copy the settings for future installations, further minimizing workload.

One-and two-pump operation	•	•
1-phase 110-240 VAC (50/60 Hz)	•	•
Start and run capacitors for 1-phase systems		•
3-phase 200-460 VAC (50/60 Hz)	•	•
Direct-on-line start method up to 9.6 A (Simplex), or 7.6A (Duplex)	•	
Direct-on-line start method up to 32 A		•
Customizable for other starting methods and higher current (greater than 32A)		•
Motor protection	Built-in	•
Overheat protection	•	•
Input/Output: IO 4xDI, 1xAI/DI		•
Additional Input/Output Capability		Optional
Inputs/Outputs: 2xDI, 2xDI/DO, 2xCIO	•	
Supports Grundfos Communication Interface Module (CIM)*	•	•
Thermoplastic enclosure	•	•
Environmental rating	NEMA 3R	TYPE 4X
Current measurement	Built-in	•
Built-in buzzer	•	•
Grundfos GO support via Bluetooth smart device	•	•
Options available for customization		•

LC CONTROLLER BENEFITS

Raising the bar for what you expect from a pump station controller, the Grundfos LC 231 and LC 241 level controllers offer a comprehensive range of features for complete pump station set up, monitoring and control.

INTUITIVE USER INTERFACE

The controller has a simple user interface that can be used for daily status monitoring and includes pit level, pump status and manual control of the pumps. In simple applications, the interface provides setup assistance for installation and commissioning. In the event of an alarm, the alarm code will be shown on the interface.

PUMP AND SYSTEM PROTECTION

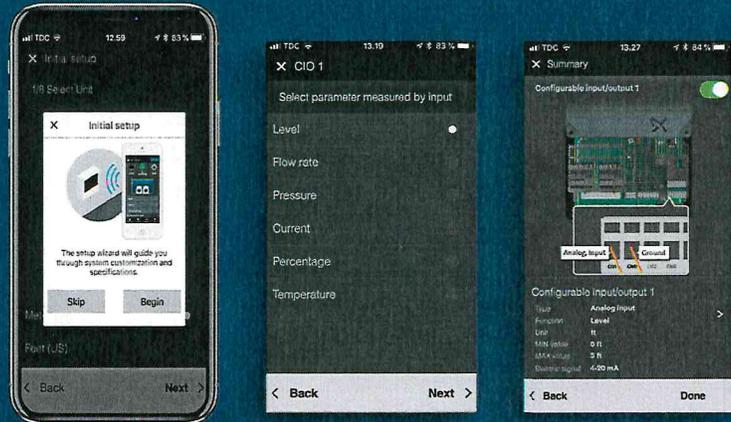
The controller gives an alarm in the event of current overload, pump overheating, dry running, high water level, incorrect phase sequences or missing phase, sensor inconsistency or failure, intrusion detected, water on floor, too many restarts, or moisture in pump.

EASY SCADA INTEGRATION

The controller uses open protocols for connection to any SCADA system. This allows you to access your pumping stations or filling station remotely, to control the pumps, change settings and view alarms and operations data.

ALARM AND WARNING LOG

The controller maintains a detailed alarm and warning log with the last 20 alerts. The alarm log can be accessed remotely via SCADA or Grundfos GO for easy troubleshooting.



CONFIGURABLE INPUTS AND OUTPUTS (CIO)

The controller has a number of free inputs and outputs for extra sensors, such as outlet pressure from the pit. The Grundfos CIO ports (Configurable Input/Output) can be configured to fit almost any type of signal, including digital input/output, analog input and Pt 100/1000 inputs. The two relay outputs can be configured using Grundfos GO to show a variety of status information on a supervisory system or PLC.

ADDITIONAL LC 231 AND 241 FEATURES:

- Anti-seizing
- Max numbers of restarts
- Pump statistics and maintenance indicators
- PIN code security and protection
- Historical functional data log

LC-241-004 09-19
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GRUNDFOS
 Poul Due Jensens Vej 7
 DK-8850 Bjerringbro, Denmark

Wiring Diagram

Application: Pump Control
Product: LC 241 2x8-32A DOL 3x208/230/460 PO
Product number: 99612818

Rated voltage: 208/230/460 V
 Rated operational voltage: 208/230/460 V
 Rated current: 64 A
 Rated current of auxiliary circuit: 0.5 A
 Rated frequency: 60 Hz

Pollution degree:
 Earthing scheme:
 Type of installation: Stationary assembly for indoor/outdoor installation
 Degree of protection: 4X
 Electromagnetic compatibility:
 Ambient Temperature: -4F (-20C) : 104F (40C)

Number of pumps: 2
 Rated current, main pump: 32 A
 Starting method, main pump: DOL
 Rated conditional short-circuit current: 10 kA
 Dimensions (WxHxD): 16.26x20.1x8.38 Inch

Caution: Line Terminals of variable-speed-controlled motors may have dangerous voltages even though the motor is stopped.

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			Drafter	JS			99612818	Page Number
			Approved	BK			Replacement of	Number of Pages
			Revision	004		Replaced By		12

Feeder Circuit Protection:

Largest Motor FLA and Panel Maximum FLA:

**Feeder Circuit Protection to be Provided by Installer.
Type and Size to be based upon Local, State, and National Electrical Codes.**

SCCR Rating: 10 kA

Motor Horsepower	
Motor FLA	32 A
Panel Max FLA	64.5 A

Field Installed Options Wiring Requirements

Digital Inputs 20 to 14AWG 600V Copper Wire
 Analog Inputs 20 to 14AWG 2 wire Shielded Cable
 Digital Outputs (Dry Contacts) 20 to 14AWG 600V Copper Wire

Wiring Sizes & Wiring Technical Characteristics

All Wire is 600V MTW Copper Wire
 Main Disconnect Switch to Power Distribution Block: 2/0AWG ... 10AWG based on Panel FLA
 Motor Supply Wire from Q1 .. Q4: 8AWG .. 14AWG based on FLA of Motor
 A-Y-B Cable for GENIBus connection: 3 x 18AWG 600V Shielded Cable

Wire Color	
BLU +12/24VDC Power	BLUE
BLU/WHT -12/24VDC Power	Blue/White
BLK 115VAC Primary Power	Black
WHT 115VAC Neutral	White
GRN/YEL Ground/PE	Green/Yellow
ORG Analog Inputs	Orange
ORG Analog Outputs	Orange
PUR Digital Inputs	Purple
PUR/WHT Grounded for Digital Input	Purple/White
YEL Digital Output	Yellow
BRN All Other Wiring	Brown

2

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				Drafter	JIS
				Approved	BK
				Revision	004
			LC 241 2x8-32A DOL 3x208/230/460 PO		
Replacement of			Replaced By		
99612818			General Information		
			Page Number		
			Number of Pages		
			3		
			12		

4

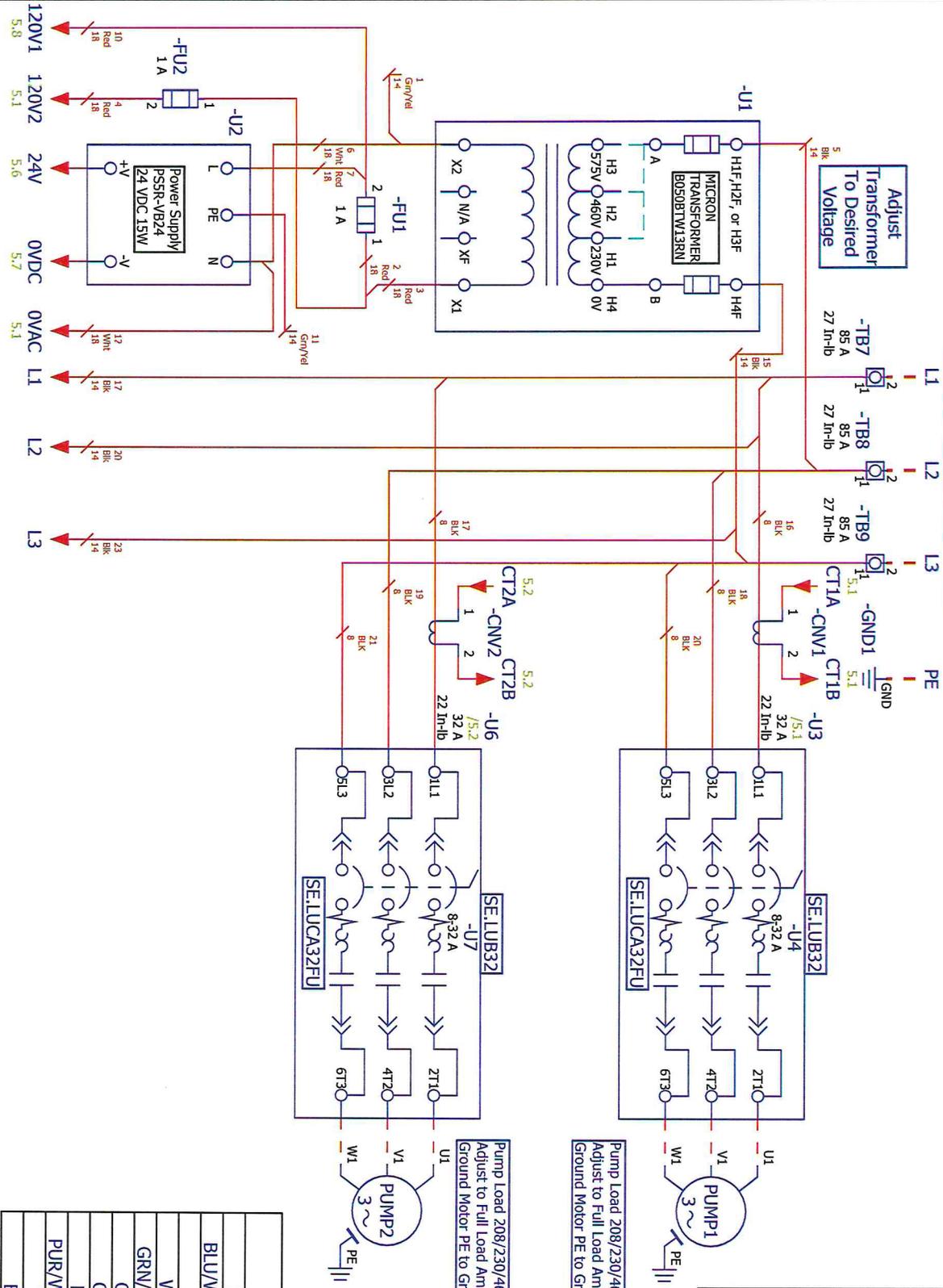
Branch Circuit Protection Device/Disconnect Means
Field Provided - Size per manufacturing specifications
for Pump/Motor

Power: 208/230/460 VAC 60 Hz

FU1 & FU2 FUSE MUST BE REPLACED WITH
1 AMP 5mmx20mm FAST ACTING 250V MAX

Legend

- - - Field Wiring
- Field Supplied
- SW1 Test/Silence
- LT Beacon
- B Buzzer
- CR Control Relay
- GND Ground Lug
- TB Terminal Block
- PLC Grundfos PLC
- U1 Power Supply
- U2 Power Supply
- U3-U8 Lub Starter
- HMI HMI Interface

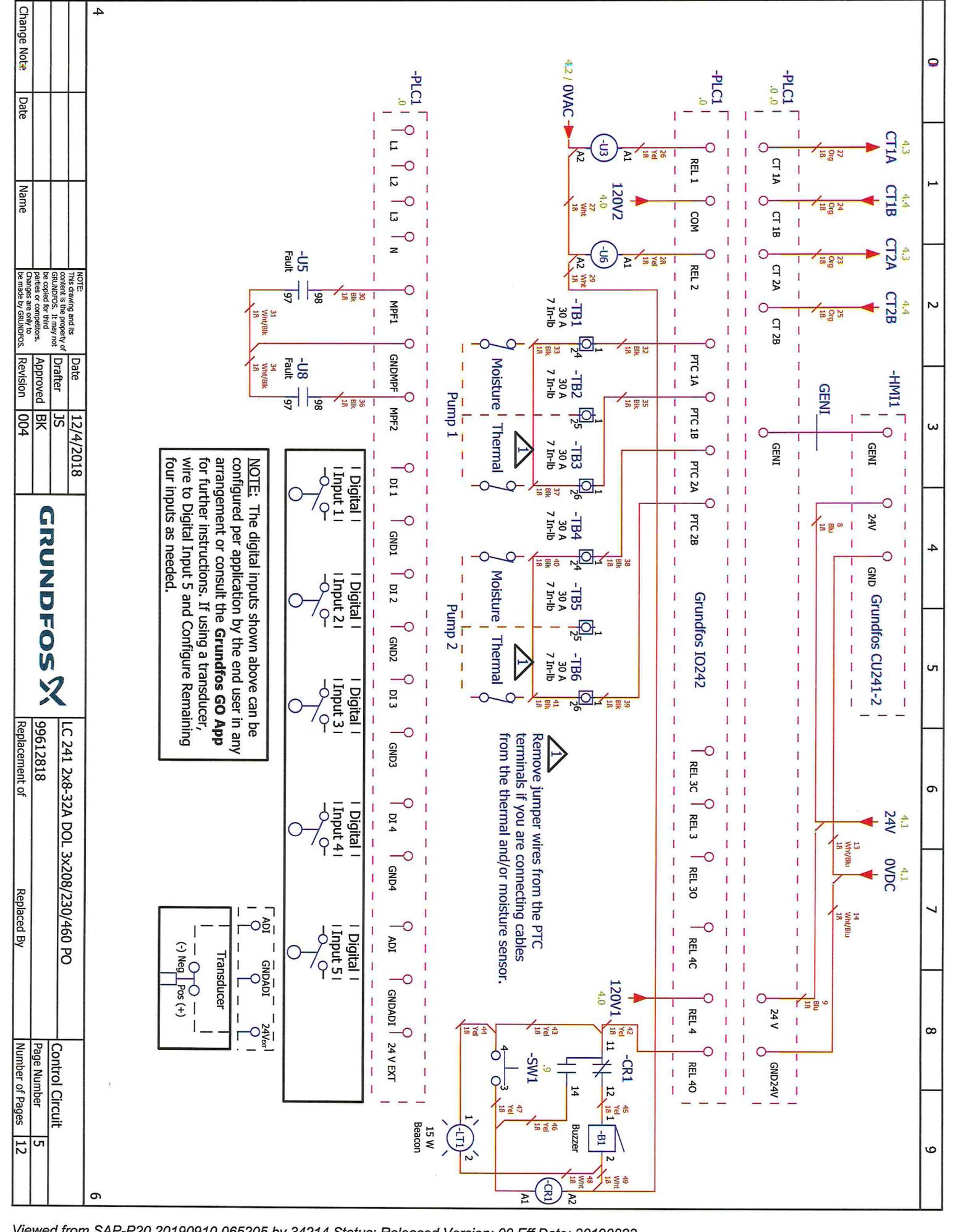


Pump Load 208/230/460 VAC 60 Hz 8-32 A
Adjust to Full Load Amperes of Motor
Ground Motor PE to Ground Lug

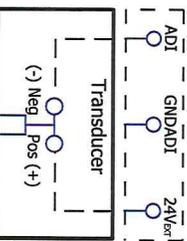
Pump Load 208/230/460 VAC 60 Hz 8-32 A
Adjust to Full Load Amperes of Motor
Ground Motor PE to Ground Lug

Wire Color	
BLU	+12/24VDC Power
BLU/WHT	-12/24VDC Power
BLK	115VAC Primary Power
WHT	115VAC Neutral
GRN/YEL	Ground/PE
ORG	Analog Inputs
ORG	Analog Outputs
PUR	Digital Inputs
PUR/WHT	Grounded for Digital Input
YEL	Digital Output
BRN	All Other Wiring

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				12/4/2018	J5	BK	004	99612818	4
								Replacement of	Page Number
								Replaced By	Number of Pages
									12



NOTE: The digital inputs shown above can be configured per application by the end user in any arrangement or consult the **Grundfos GO App** for further instructions. If using a transducer, wire to Digital Input 5 and Configure Remaining four inputs as needed.



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Summarized Parts List

Device Tag	Quantity	Length (In)	Part Description	ERP #	Manufacturer	Part Number
-10...-12,-17	6	2	Phase Separator Lub		Schneider Electric	LU9SP0
-114	1	1	Din Rail, End Stop		Schneider Electric	BNL-5
-117	1	1	Block, End Barrier, 85A, SE		Schneider Electric	NSYTRAC162
-AUX2	1	1	Bracket, Standoff, DaYu, 3P, LUB		Schneider Electric	1002607
-AUX2	1	1	Relay, S.E., Int, MF, 120V, SPDT		Schneider Electric	RXG11F7
-AUX2	1	1	Relay SE, 1 Pole, Socket		Schneider Electric	RGZE1S35M
-B1	1	1	Relay, S.E., Int, Label Plate		Schneider Electric	RSZL300
-BP2	1	1	Motor protector, Buzzer, 120V, Warble, 95DB		Ingram	PB-120A
-BP6	1	1	Door Inner, DaYu, 16x14 Duplex		Alderon	1002601
-CNV1,-CNV2	2	2	Backplate, Grundfos, DaYu, 16X14		Alderon Industries	1003899
-DIN1,-DIN2	2	2	Transformer Current, SIRIO, 152035		SIRIO	DT152035-2303
-ENCL1	1	1	Rail Din, Steel, Low		Wago	210-112
-FU1,-FU2	2	2	Enclosure, Integra, Premium, 16x14x7		Integra Enclosures	H161407HLL
-FU4,-FU5	4	4	Terminal box Fuse, SE		Schneider Electric	NSYTRV42SF5
-GND1,-GND2	2	2	Fuse, 5mm X 20mm, 1A		Littlefuse	F2677-ND
-HMI1	1	1	Fuse, Primary, FNQR, 0.5A		Bussmann	FNQR-1/2
-LT1	1	1	Lug, Ground		Burndy	KA6U
-PARTS	1	1	CU241-2 (LCD)		Grundfos	CU241-2
-PARTS	1	1	Beacon, 15W, One Hole, Red		AC/DC	R15-MB
-PARTS	1	1	Enclosure, Inner Door Hinge Kit		Integra Enclosures	USOPK-G
-PARTS	1	1	Connect Cable, Grundfos Genie		Grundfos	1003520
-PARTS	1	1	Label, Grundfos, DaYu, 3P, 2Pump		SMT Graphics	1002907
-PARTS	1	1	Label, Grundfos, DaYu, TB, D32A, 460V		SMT Graphics	1002912
-PARTS	1	1	Kit, Label, Grundfos, DaYu, Alm, P1, P2		SMT Graphics	1002905
-PARTS	2	2	Label, Laminated Schematics		Alderon	1001997
-PARTS	1	1	Label Conduit		AWT Labels &	1000122
-PARTS	1	1	I and O instructions, Print Package		B & F Fastener Supply	1003594
-PARTS	12	12	Screw Phillips, 6x1/2, Self Drill		B & F Fastener Supply	PTEKF2 006 0050 PH
-PARTS	8	8	Screw Phillips, 6x3/4, Self Drill		B & F Fastener Supply	D6-075PSDZ
-PARTS	8	8	Screw Hex, 8x1/2, Self Drill		B & F Fastener Supply	HTEKF2 008 0050

5

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				12/4/2018	JS	BK	004	99612818	Page Number
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									Number of Pages
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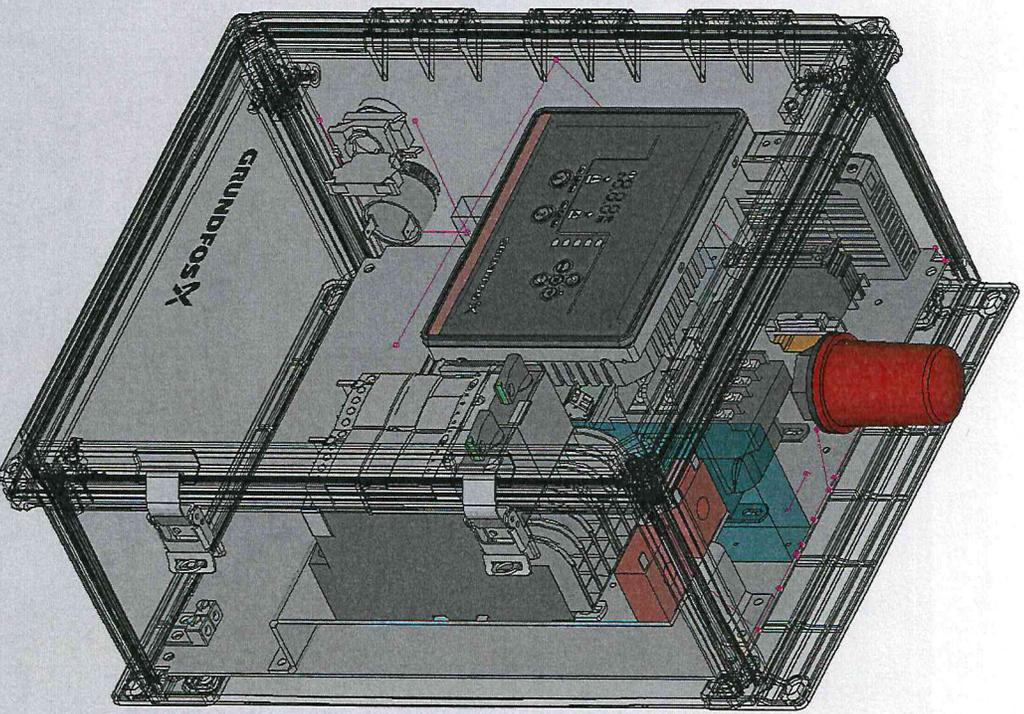
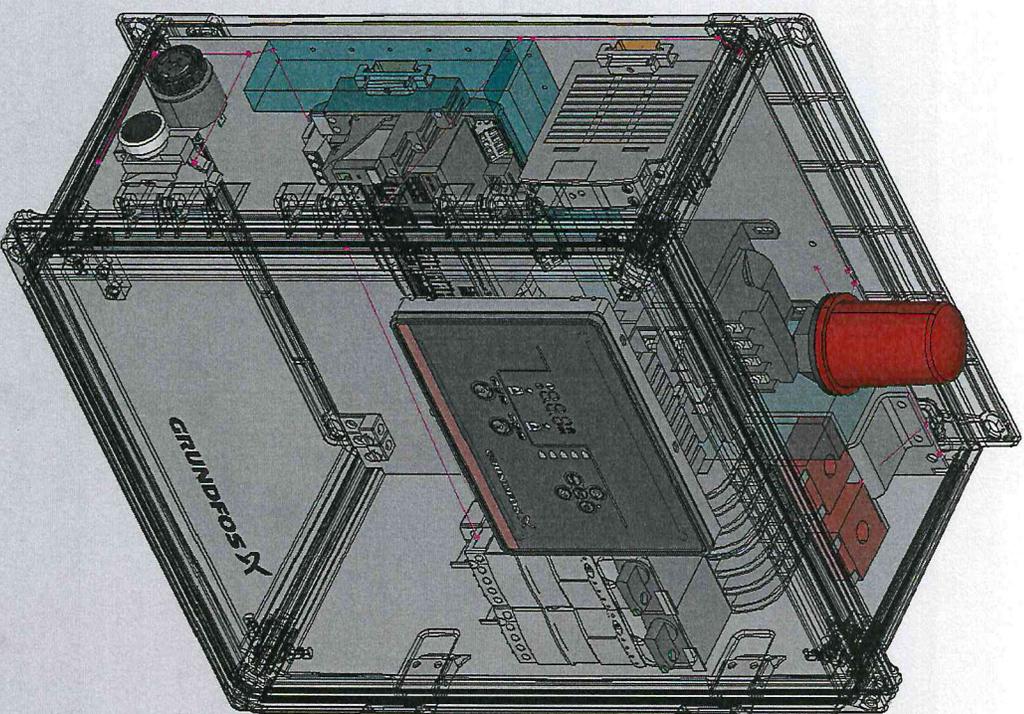


Summarized Parts List

Device Tag	Quantity	Length (In)	Part Description	ERP #	Manufacturer	Part Number
- PARTS	2		Screw Pan,10-32x1/2,Phillip,TC		B & F Fastener Supply	PTCSF-102 0050 PH
- PARTS	1		Label UL 508, USA and Canada		Underwriters	508-51844
- PARTS	1		Carton, 26 x 20 x 14		U-Line	S-18371
- PARTS	1		Label Ratings		AVVT Labels &	1003595
- PLC1	1		IO242 Basic		Grundfos	IO242
- SW1	1		Contact Block Pilot, NO		Schneider Electric	ZBE1015
- TB1...-TB6	6		Terminal Block 30A, SE		Schneider Electric	NSYTRV42
- TB7...-TB9	3		Terminal Block 85A, SE		Schneider Electric	NSYTRV162
- U1	1		Transformer 50VA,208/230/460:120		Micron	B050MBT13RN
- U2	1		Power Supply, IDEC, 24 VDC,15W		IDEC	P55R-VB24
- U3;-U6	2		Motor Starter, Teje, LUB32		Schneider Electric	LUB32
- U4;-U7	2		Motor Starter Overload,LUCA32, 8-32A		Schneider Electric	LUCA32FU
- U5;-U8	2		Motor Starter Tele, Aux, Cont, LU		Schneider Electric	LUUA1C20
- WD1;-WD5	2		Duct, Wire, 0.5" x 1.5", WHT		Canalplast	L0515G
- WD6	1		Duct, Wire, 1" x 3", WHT		Canalplast	H13W

6 8

Change Note	Date	Name	NOTE: This drawing and its content is the property of Grundfos and should not be copied for third parties or competitors. Changes are only to be made by GRUNDFOS.	Date	Revision	GRUNDFOS	Replacement of	Replaced By	Summarized Parts List
				12/4/2018	004		LC 241 2x8-32A DOL 3x208/230/460 PO		Page Number 7
							99612818		Number of Pages 12



Enclosure

Enclosure

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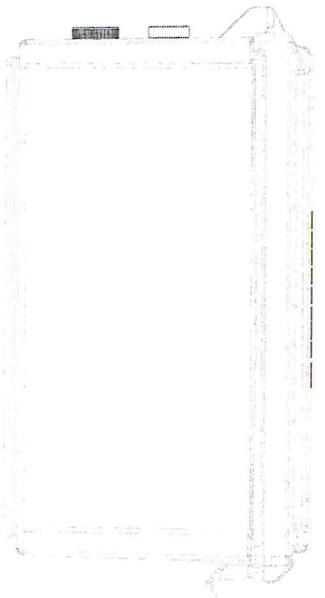
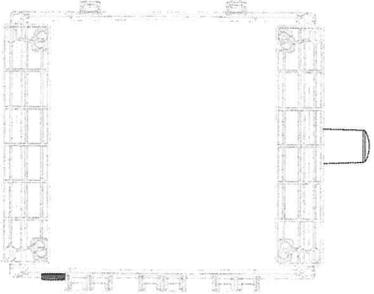
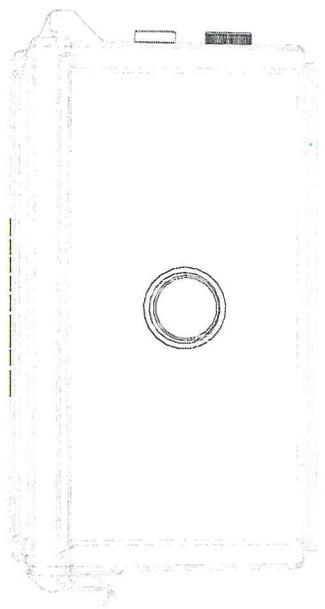
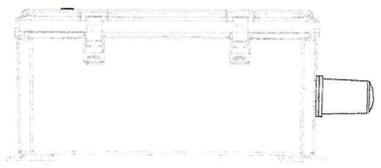
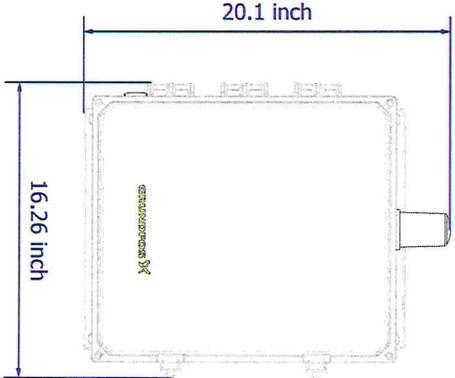
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Replaced By

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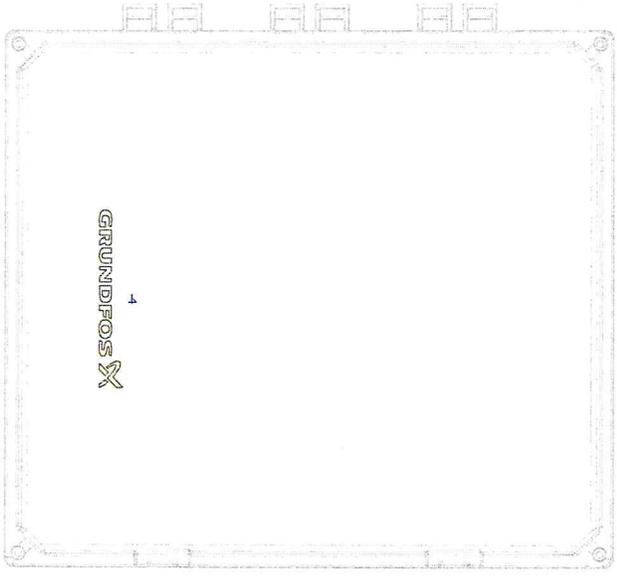
Replacement of	LC 241 2x8-32A DOL 3x208/230/460 PO 99612818
Replaced By	

Enclosure Perspective	Page Number	9
	Number of Pages	12



Enclosure legend

Device tag	Description
ENCL1	
4	Label, Grundfos Panel, 250mm



Door Layout

9

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				12/4/2018	JS	BK	004

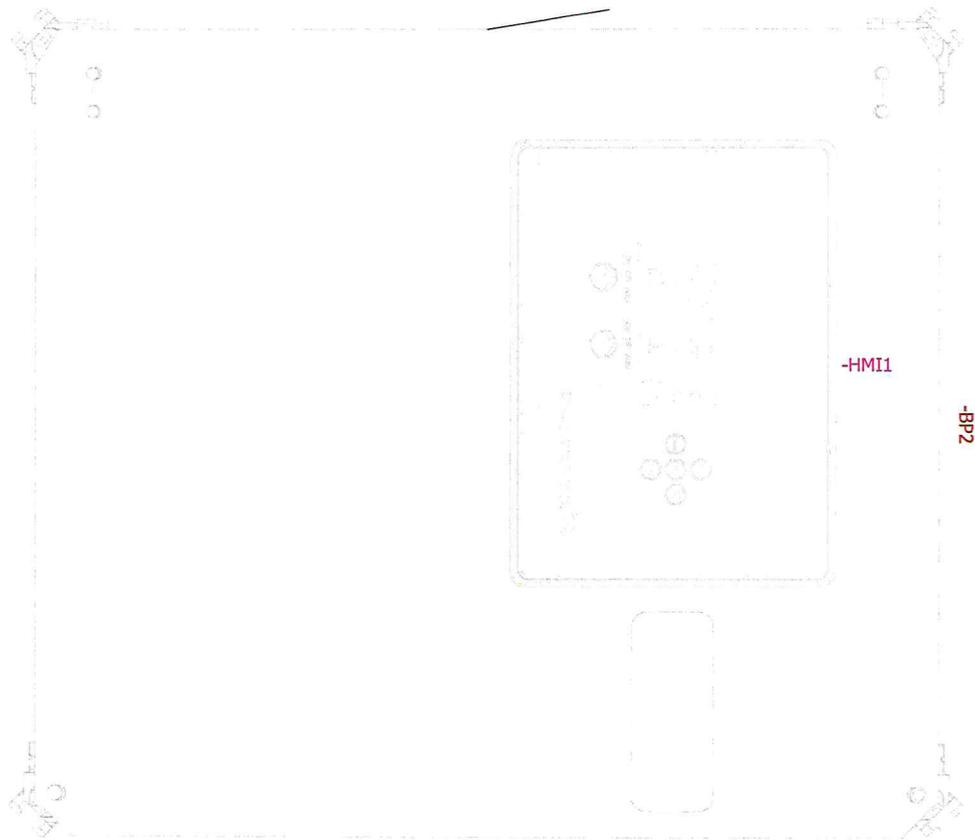


LC 241 2x8-32A DOL 3x208/230/460 PO	Door Layout
99612818	Page Number
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	12

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Enclosure legend

Device tag	Description
BP2	Door Inner, DaYu, 16x14 Duplex
HMI1	CU241-2 (LCD)



Mounting Panel Layout

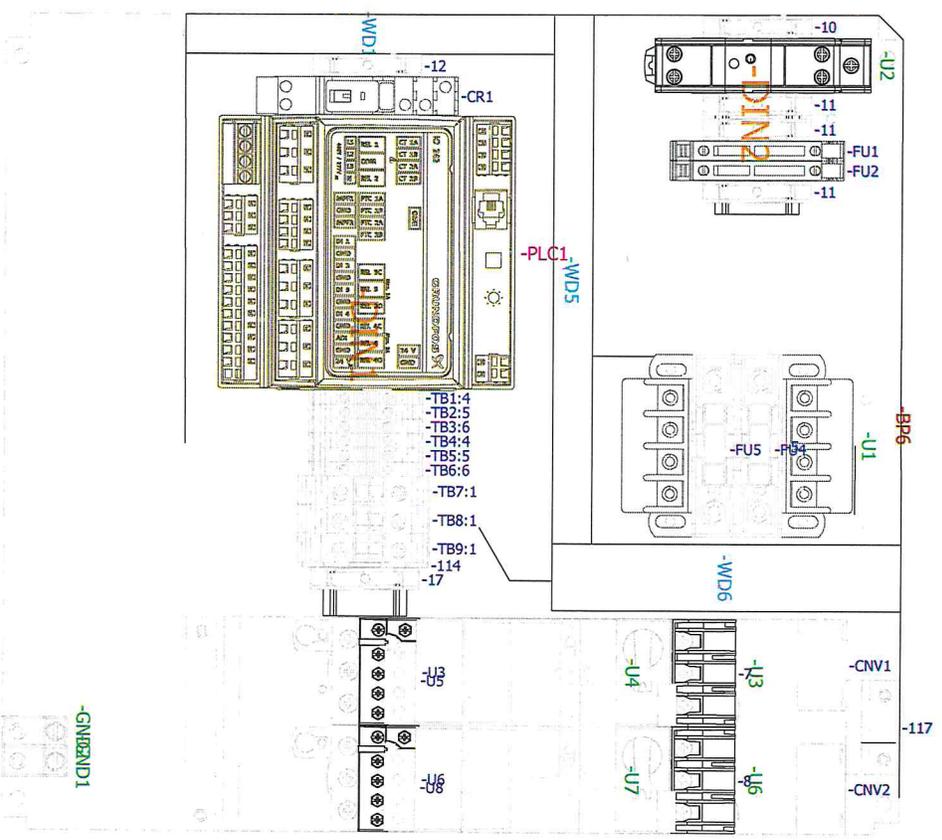
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12

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				12/4/2018	JS	BK	004				11
											12

Enclosure legend

Device tag	Description
DIM1	Rail Din, Steel, Low
WD1	Duct, Wire, 0.5" x 1.5", WHIT
12	Din Rail, End Stop
17	Din Rail, End Stop
U1	Transformer 50VA,208/230/460:120
5	Fuse, Primary, FNQR, 0.5A
FU4	Fuse, Primary, FNQR, 0.5A
FU5	Fuse, Primary, FNQR, 0.5A
DIN2	Rail Din, Steel, Low
10	Din Rail, End Stop
11	Din Rail, End Stop
11	Din Rail, End Stop
11	Din Rail, End Stop
U2	Power Supply, IDEC, 24 VDC,15W
CNV1	Transformer Current, SIRIO, 152035
CNV2	Transformer Current, SIRIO, 152035
GND1	Lug, Ground
GND2	Lug, Ground
U3	Motor Starter, Tele, LUB32
U3	Motor Starter, Tele, LUB32
U3	Motor Starter, Tele, LUB32
U6	Motor Starter, Tele, LUB32
U6	Motor Starter, Tele, LUB32
U4	Motor Starter - Overload, LUCA32, 8-32A
U7	Motor Starter - Overload, LUCA32, 8-32A
7	Phase Separator Lub
8	Phase Separator Lub
U5	Motor Starter Tele, Aux. Cont, LU
U8	Motor Starter Tele, Aux. Cont, LU
TB1	Terminal Block 30A, SE
TB2	Terminal Block 30A, SE
TB3	Terminal Block 30A, SE
TB4	Terminal Block 30A, SE
TB5	Terminal Block 30A, SE
TB6	Terminal Block 30A, SE
FU1	Fuse 5mm x 20mm, 1 Amp
FU2	Fuse 5mm x 20mm, 1 Amp
PLC1	IO242 Basic
TB7	Terminal Block 85A, SE



Mounting Panel Layout

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Change Note	Date	Name	NOTE: This drawing and its content is the property of Grundfos and should not be copied for third parties or competitors. Changes are only to be made by GRUNDFOS.	Date	Drafter	Approved	Revision	LC 241 2x8-32A DOL 3x208/230/460 PO	Mounting Panel Layout
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