

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

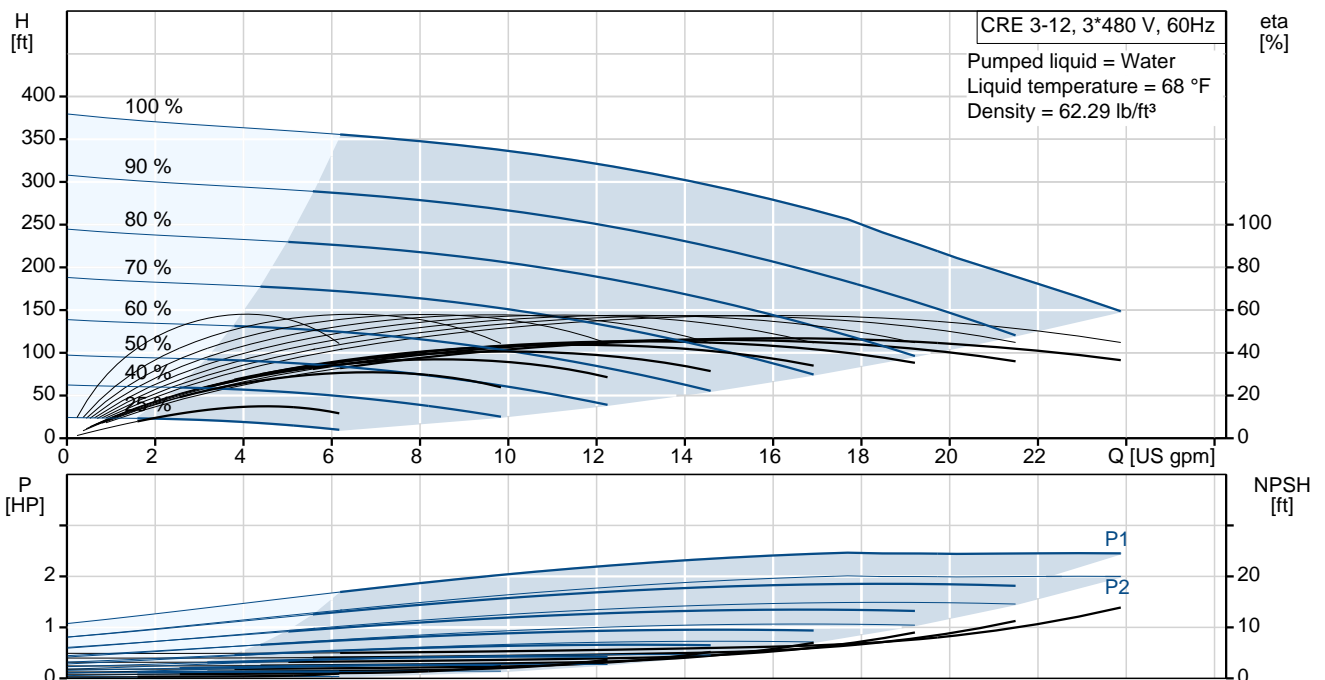


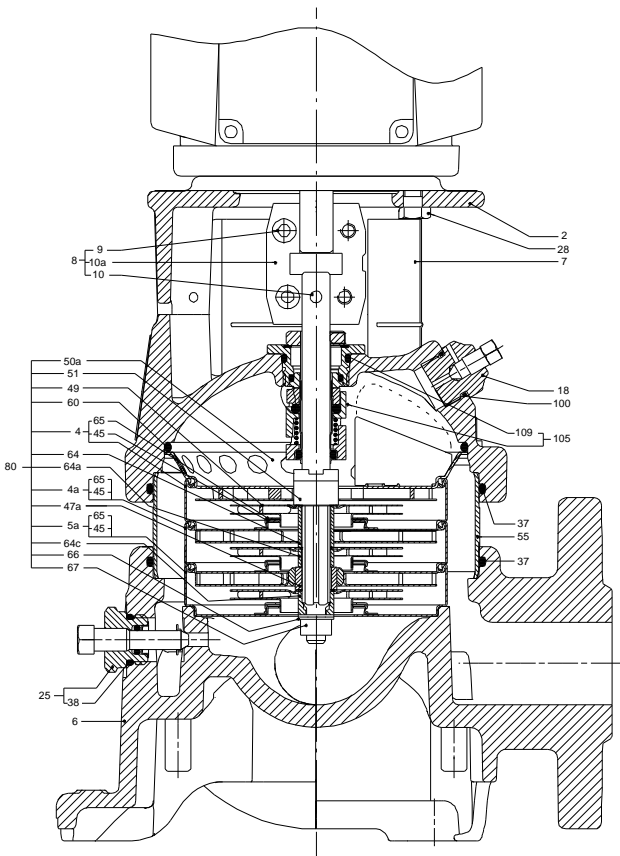
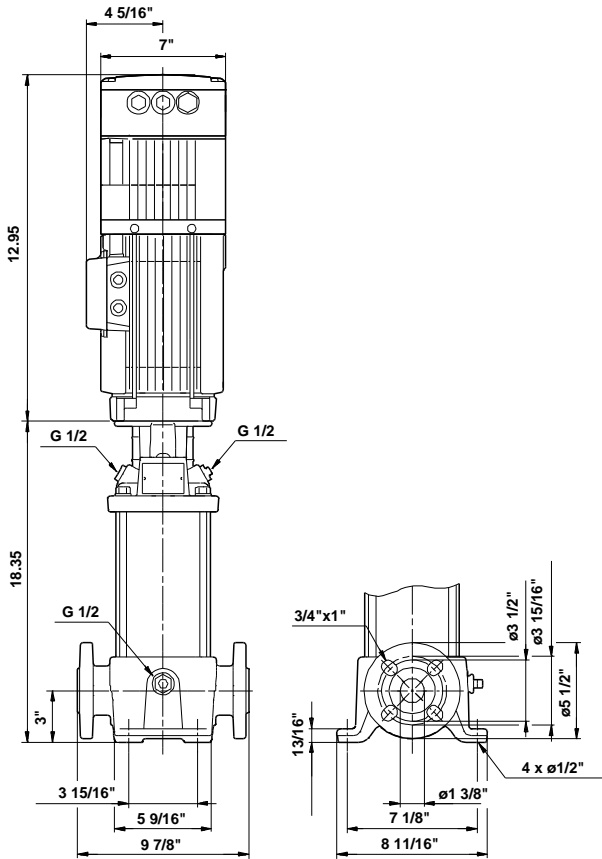
CRE 3-12

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

Product photo could vary from the actual product


Conditions of Service	Pump Data	Motor Data
Flow: _____	Max pressure at stated temperature: 363 psi / 250 °F	Rated power - P2: 2 HP
Head: _____	Liquid temperature range: -4 .. 248 °F	Rated voltage: 460-480 V
Efficiency: _____	Maximum ambient temperature: 104 °F	Main frequency: 60 Hz
Liquid: Water	Approvals: ANSI/NSF61	Enclosure class: IP55
Temperature: 68 °F	Shaft seal: HQQE	Insulation class: F
NPSH required: ft	Flange standard: ANSI	Motor protection: NONE
Viscosity: _____	Pipe connection: 1 1/4"	Motor type: 90CC
Specific Gravity: 1.000	Product number: 96085283	





Materials:

- Pump housing: Cast iron
EN-JL1030
ASTM 25 B
- Impeller: Stainless steel
DIN W.-Nr. 1.4301
AISI 304
- Material code: A
- Code for rubber: E

Position	Count	Description
	1	<p data-bbox="343 340 667 369">CRE 3-12 A-FGJ-A-E-HQQE</p> <div data-bbox="419 405 632 891" style="text-align: center;">  </div> <p data-bbox="735 887 1190 909" style="text-align: center;">Product photo could vary from the actual product</p> <p data-bbox="343 918 609 943">Product No.: 96085283</p> <p data-bbox="343 949 865 1032">Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p data-bbox="343 1068 820 1093">The pump has the following characteristics:</p> <ul data-bbox="379 1099 967 1330" style="list-style-type: none"> - Impellers and intermediate chambers are made of Stainless steel DIN W.-Nr. DIN W.-Nr. 1.4301. - Pump head and base are made of Cast iron. - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. - Pipework connection is via ANSI flanges. <p data-bbox="343 1364 935 1538">The pump is fitted with an NEMA-flanged three-phase MLE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection.</p> <p data-bbox="343 1572 860 1657">External sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required.</p> <p data-bbox="343 1691 895 1807">A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault".</p> <p data-bbox="343 1841 916 1986">Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p data-bbox="343 2020 780 2074">The terminal box holds terminals for the connection of:</p> <ul data-bbox="379 2080 855 2105" style="list-style-type: none"> - Pump start/stop (potential-free contact),

Position	Count	Description
		<ul style="list-style-type: none"> - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, I_{max} = 40 mA, - input for forced control to MIN, MAX, External fault or Flowswitch (potential-free contact), - potential-free fault signal relay with changeover contact, reporting Fault, Operation or Ready, - RS485 GENibus. <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -4 .. 248 °F</p> <p>Liquid temp: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Technical:</p> <p>Speed for pump data: 3452 rpm</p> <p>Rated flow: 15.4 US gpm</p> <p>Rated head: 272.3 ft</p> <p>Primary shaft seal: HQQE</p> <p>Approvals on nameplate: ANSI/NSF61</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Pump housing: Cast iron EN-JL1030 ASTM 25 B</p> <p>Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Bush material: NONE</p> <p>Installation:</p> <p>Maximum ambient temperature: 104 °F</p> <p>Max pressure at stated temperature: 363 psi / 250 °F 363 psi / -4 °F</p> <p>Flange standard: ANSI</p> <p>Pipe connection: 1 1/4"</p> <p>Pressure stage: CLASS 300</p> <p>Flange size for motor: 56C</p> <p>Electrical data:</p> <p>Motor type: 90CC</p> <p>Rated power - P2: 2 HP</p> <p>Power (P2) required by pump: 2 HP</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 3 x 460-480 V</p> <p>Rated current: 2.7 A</p> <p>Cos phi - power factor: 0,87</p> <p>Rated speed: 360-3460 rpm</p> <p>IE efficiency: IE3 85,5%</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Others:</p>



Company name:

Created by:

Phone:

Date:

8/15/2016

Position	Count	Description
		Net weight: 100 lb Gross weight: 115 lb Shipping volume: 2.83 ft ³



Company name:

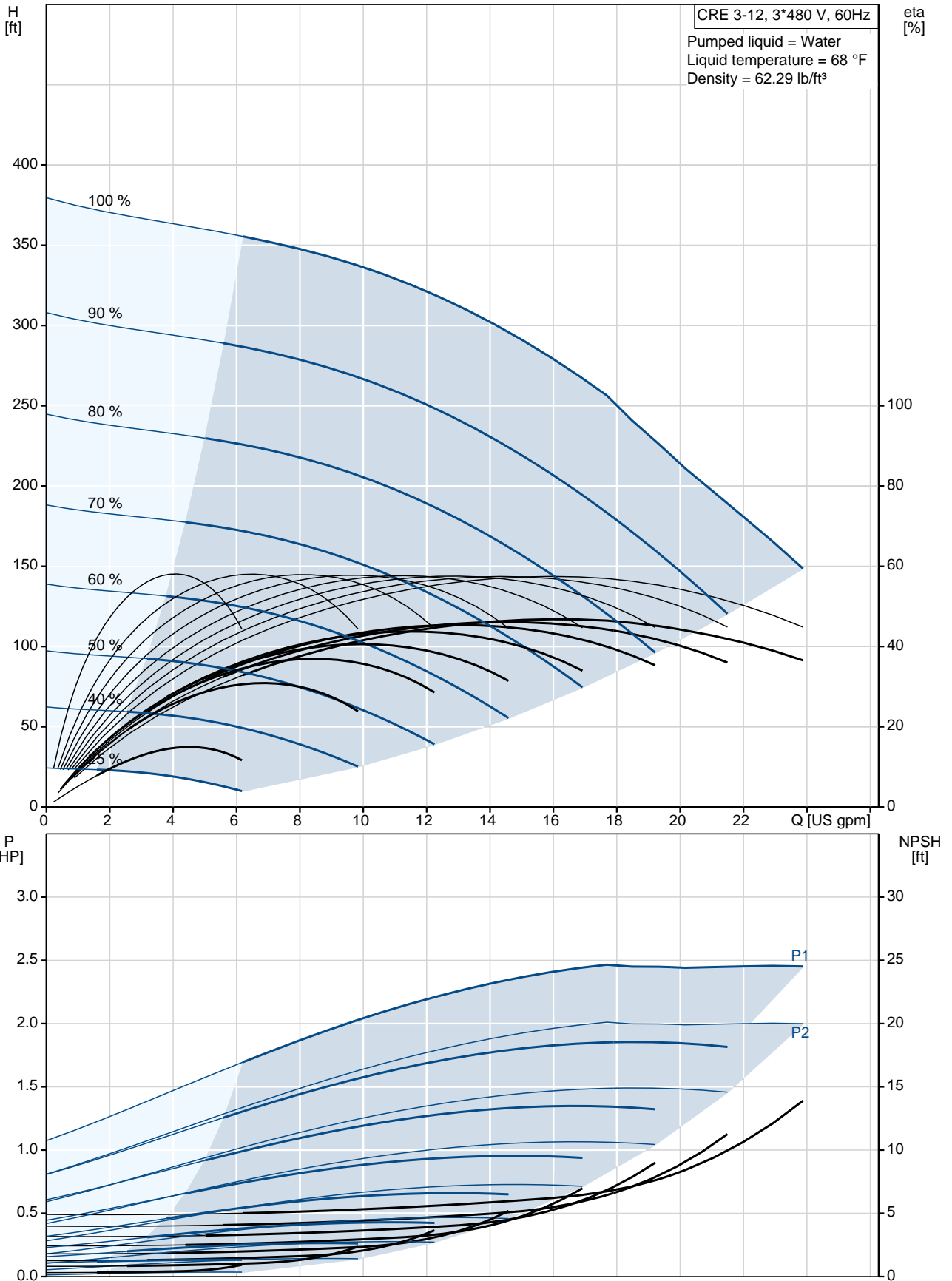
Created by:

Phone:

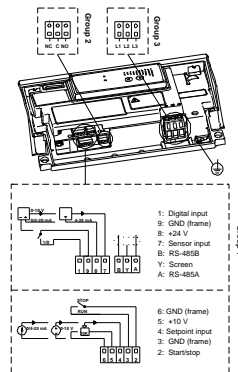
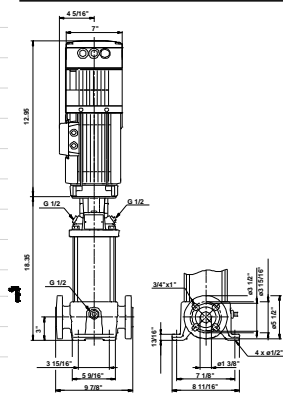
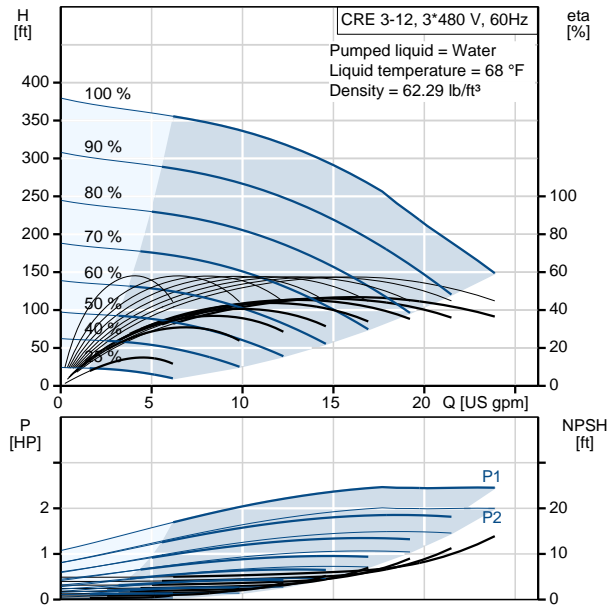
Date:

8/15/2016

96085283 CRE 3-12 60 Hz



Description	Value
General information:	
Product name:	CRE 3-12 A-FGJ-A-E-HQQE
Product No.:	96085283
EAN:	5700395201284
Price:	On request
Technical:	
Speed for pump data:	3452 rpm
Rated flow:	15.4 US gpm
Rated head:	272.3 ft
Impellers:	12
Primary shaft seal:	HQQE
Approvals on nameplate:	ANSI/NSF61
Curve tolerance:	ISO9906:2012 3B
Stages:	12
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron EN-JL1030 ASTM 25 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Bush material:	NONE
Installation:	
Maximum ambient temperature:	104 °F
Max pressure at stated temperature:	363 psi / 250 °F
	363 psi / -4 °F
Flange standard:	ANSI
Connect code:	FGJ
Pipe connection:	1 1/4"
Pressure stage:	CLASS 300
Flange size for motor:	56C
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Liquid temp:	68 °F
Density:	62.29 lb/ft ³
Electrical data:	
Motor type:	90CC
Rated power - P2:	2 HP
Power (P2) required by pump:	2 HP
Main frequency:	60 Hz
Rated voltage:	3 x 460-480 V
Rated current:	2.7 A
Cos phi - power factor:	0,87
Rated speed:	360-3460 rpm
IE efficiency:	IE3 85,5%
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F





Company name:

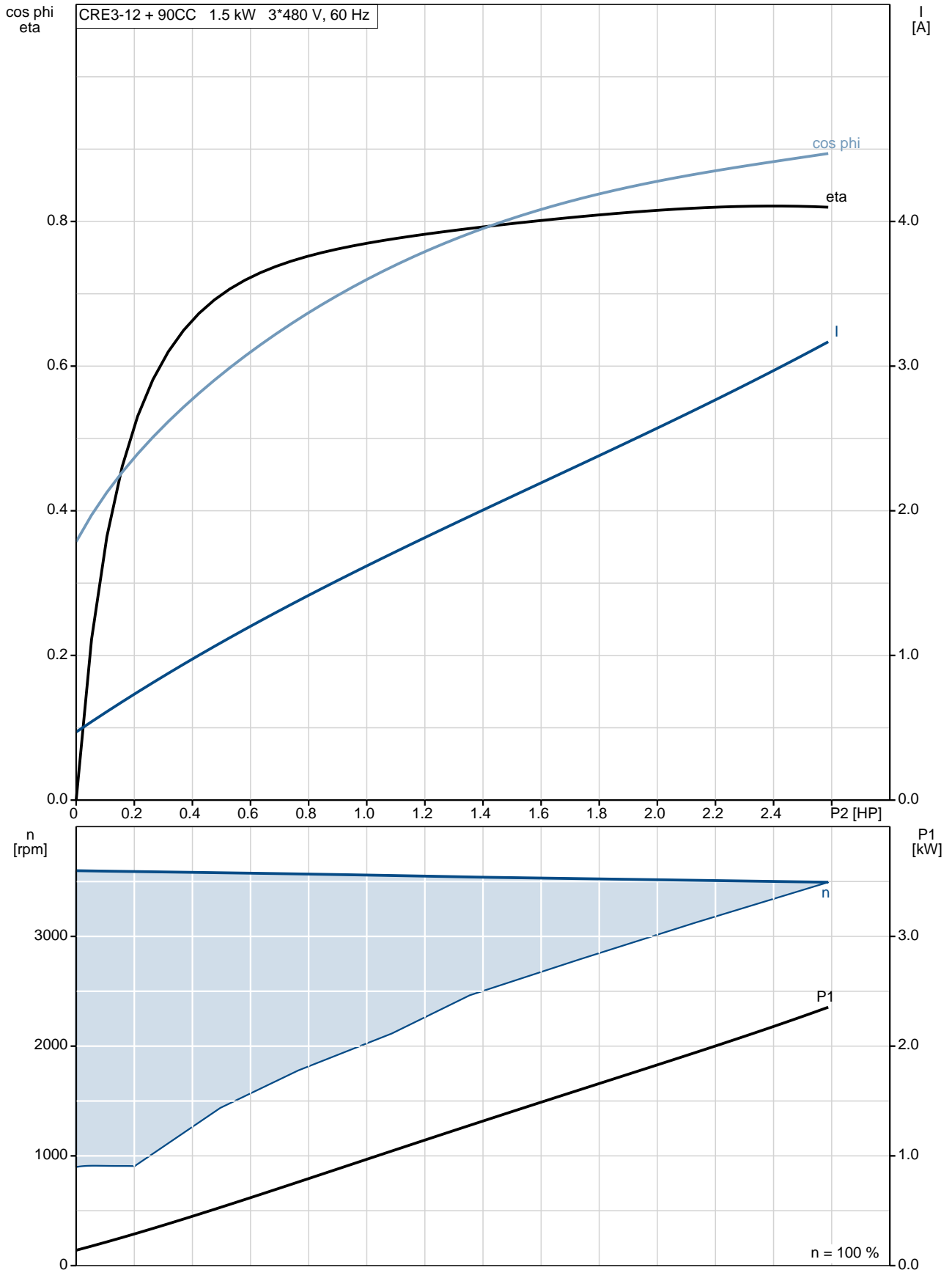
Created by:

Phone:

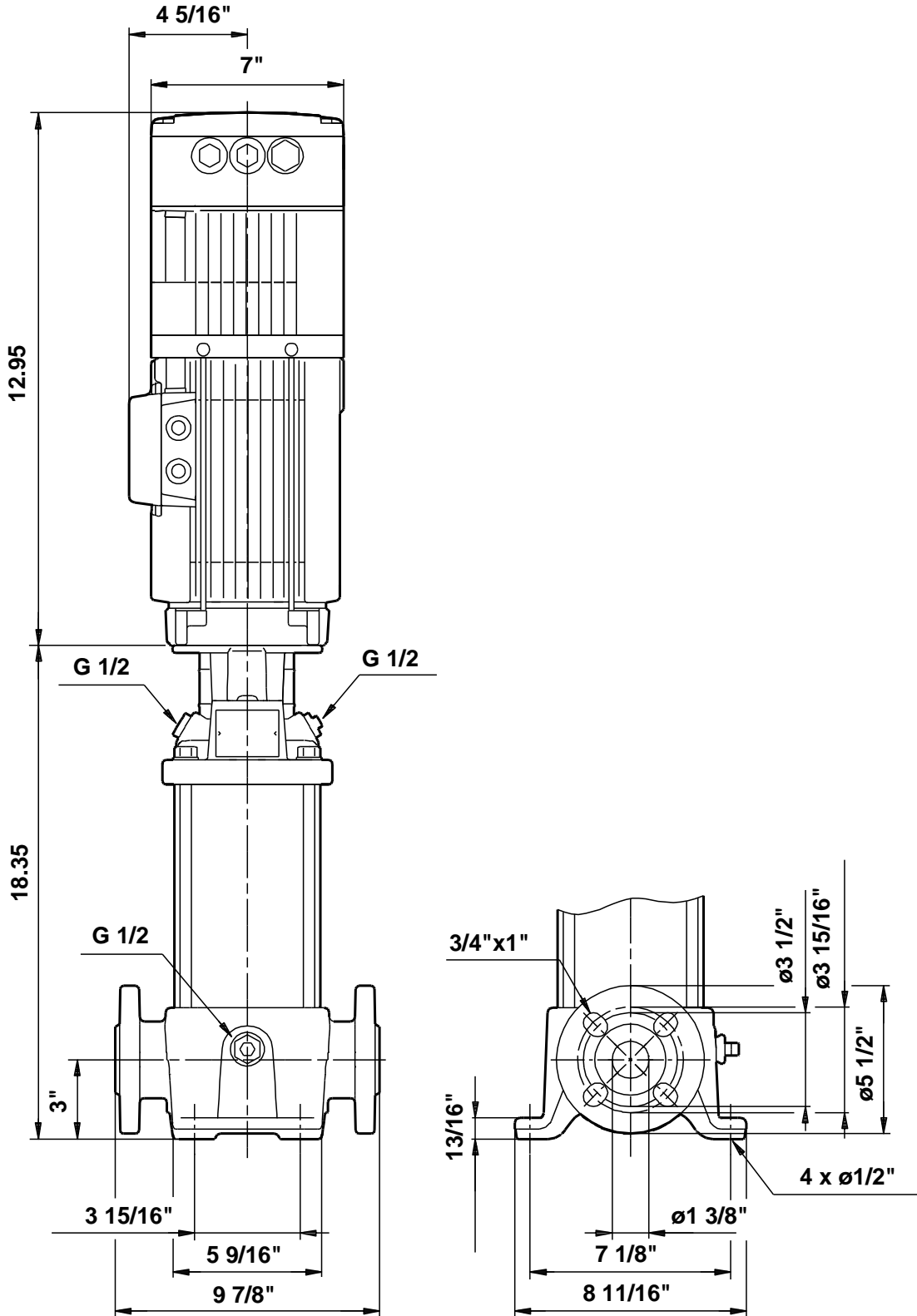
Date: 8/15/2016

Description	Value
Motor protection:	NONE
Motor Number:	85765806
Others:	
Net weight:	100 lb
Gross weight:	115 lb
Shipping volume:	2.83 ft ³
Config. file no:	96116168

96085283 CRE 3-12 60 Hz

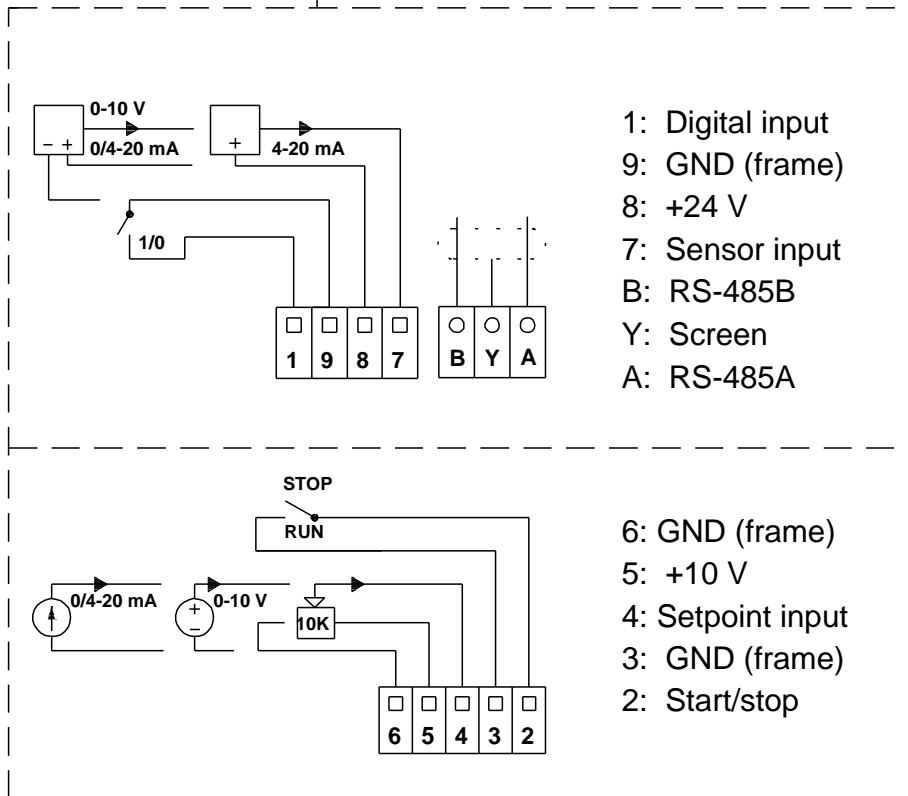
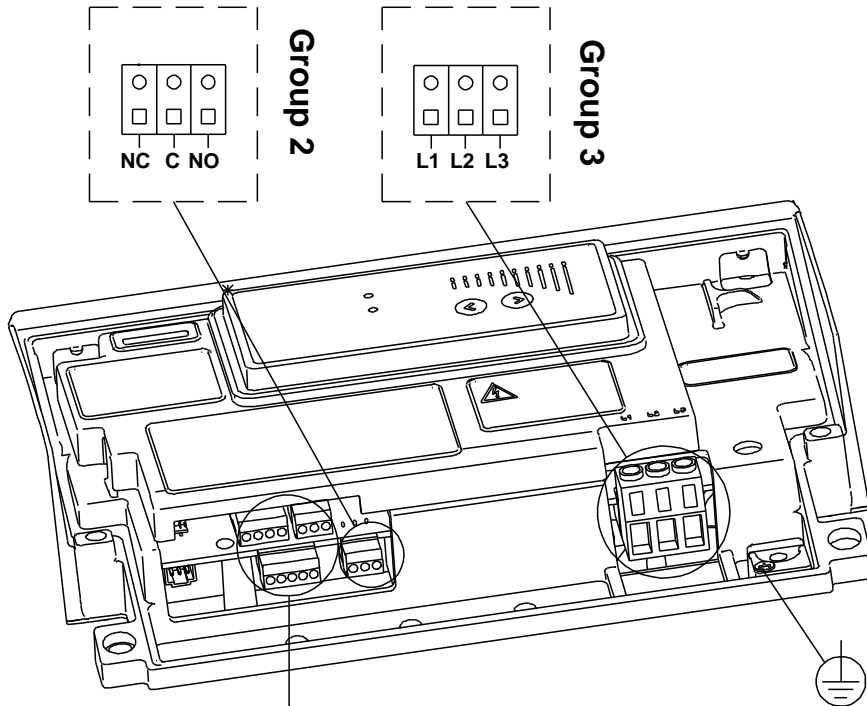


96085283 CRE 3-12 60 Hz



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

96085283 CRE 3-12 60 Hz



All units are [mm] unless otherwise presented.