GRUNDFOS

Submittal Data

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

Product photo could vary from the actual product

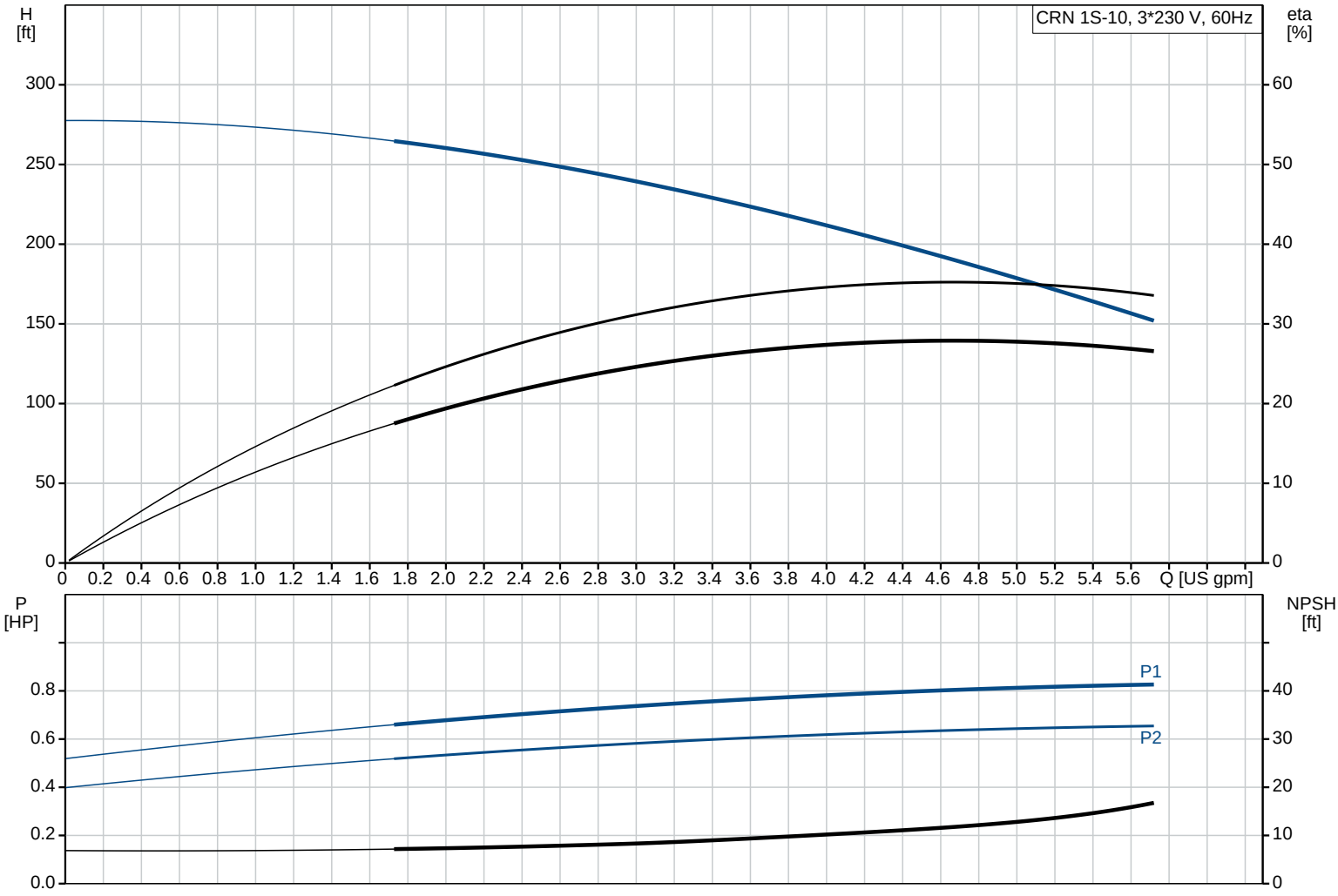
CRN 1S-10 A-FGJ-A-E-HQQE

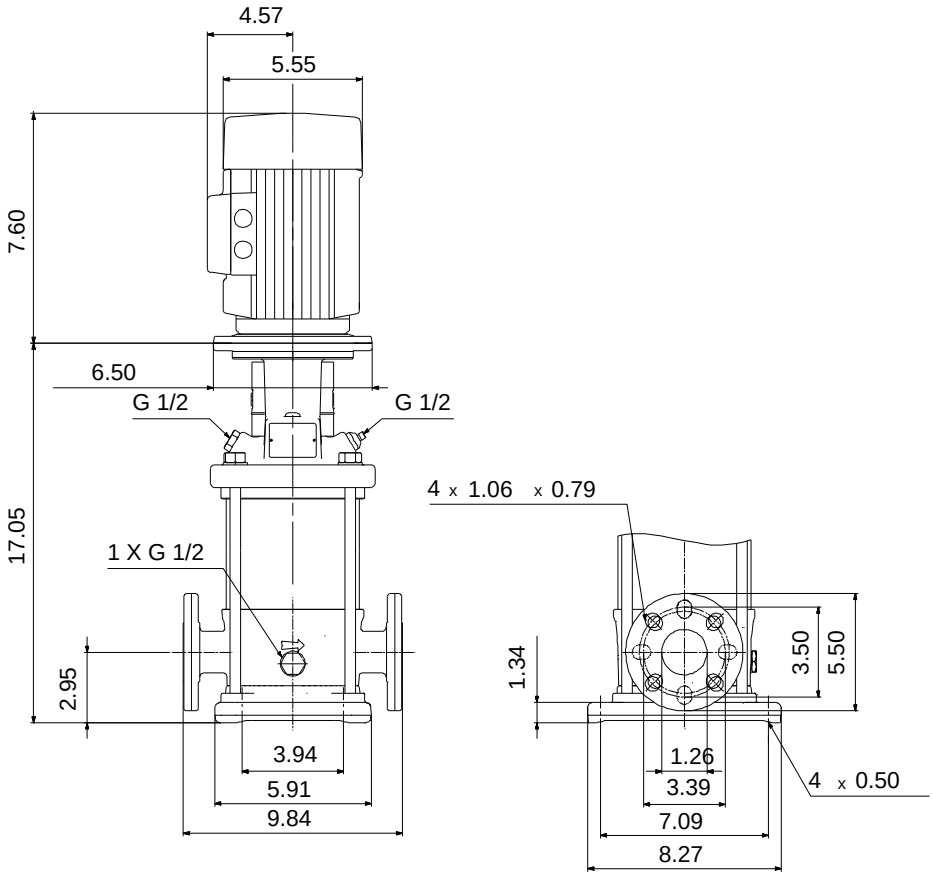
Vertical, multistage centrifugal pump with suction and discharge ports on same the level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401) (AISI 316)

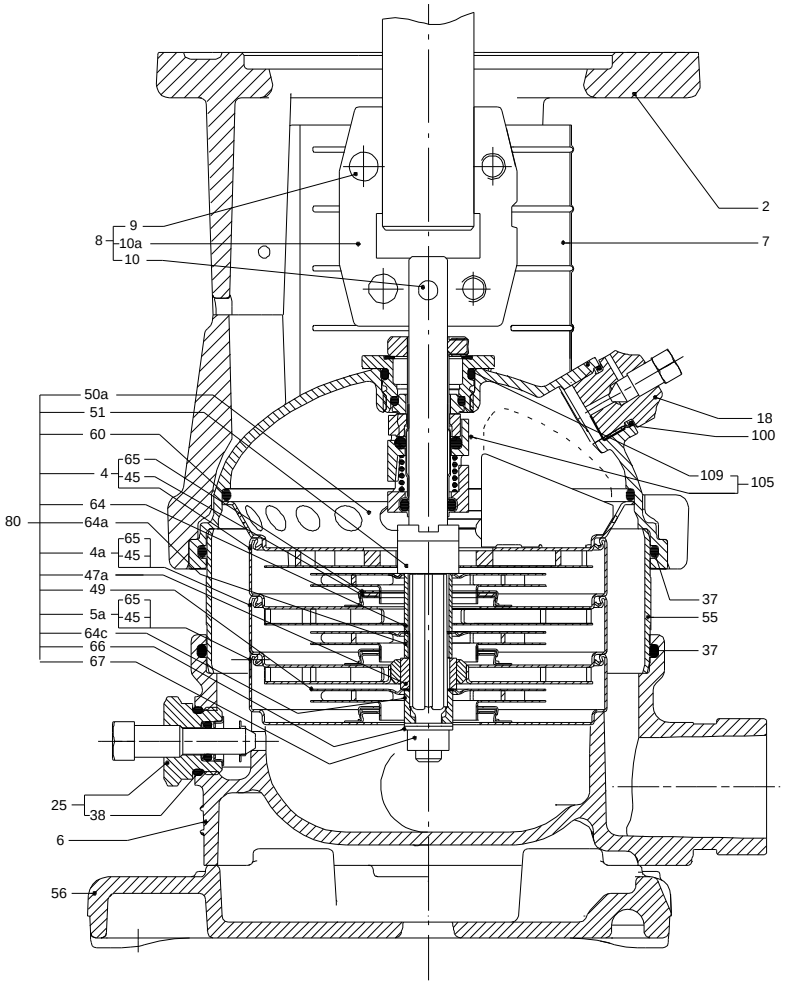
Conditions of Service	
Flow:	
Head:	
Efficiency:	
Liquid:	Water
Temperature:	68 °F
NPSH required:	ft
Viscosity:	
Specific Gravity:	1.000

Pump Data	
Max pressure at stated temperature:	363 psi / 250 °F
Liquid temperature range:	-4 .. 248 °F
Maximum ambient temperature:	104 °F
Approvals:	CURUS,NSF61
Shaft seal:	HQQE
Product number:	96081797

Motor Data	
Rated power - P2:	0.75 HP
Rated voltage:	208-230YY/460Y V
Main frequency:	60 Hz
Enclosure class:	55 Dust/Jetting
Insulation class:	F
Motor protection:	NONE
Motor type:	71BA
Motor_efficiency:	79.0-80.0 %







Materials:

Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel AISI 316 EN 1.4401
Material code:	A
Code for rubber:	E

GRUNDFOS

Company name:
Created by:
Phone:

Date: 11/30/2018

Position	Count	Description
	1	**CRN 1S-10 A-FGJ-A-E-HQQE**

Product No.: 96081797
Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:
- Impellers, intermediate chambers and outer sleeve are made of
- Pump head cover and base are made of
- The shaft seal has assembly length according to EN 12756.
- Power transmission is via cast iron split coupling.

flanges/couplings.

The motor is a 3-phase AC motor.

Controls:

Frequency converter:	NONE

Liquid:

Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³

Technical:

Rated pump speed:	3439 rpm
Rated flow:	4.84 US gpm
Rated head:	184.1 ft
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CURUS,NSF61
Curve tolerance:	ISO9906:2012 3B

Materials:

Base:	Stainless steel EN 1.4408 AISI 316
Impeller:	Stainless steel EN 1.4401 AISI 316
Bearing:	SIC

Installation:

Maximum ambient temperature:	104 °F
Maximum operating pressure:	363 psi
Max pressure at stated temperature:	363 psi / 250 °F 363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Size of suction port:	1 1/4 inch
Size of outlet connection:	DN 25/32
Size of outlet port:	1 1/4 inch
Pressure rating for pipe connection:	PN 25

GRUNDFOS

Company name:
Created by:
Phone:

Date: 11/30/2018

Position	Count	Description

Flange rating inlet:	300 lb
Flange size for motor:	56C

Electrical data:

Motor standard:	NEMA
Motor type:	71BA
Rated power - P2:	0.75 HP
Power (P2) required by pump:	0.75 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1.25
Rated current:	2,40-2,30/1,20 A
Starting current:	590-650 %
Cos phi - power factor:	0.84-0.78
Rated speed:	3430-3460 rpm
Motor efficiency at full load:	79.0-80.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F

Others:

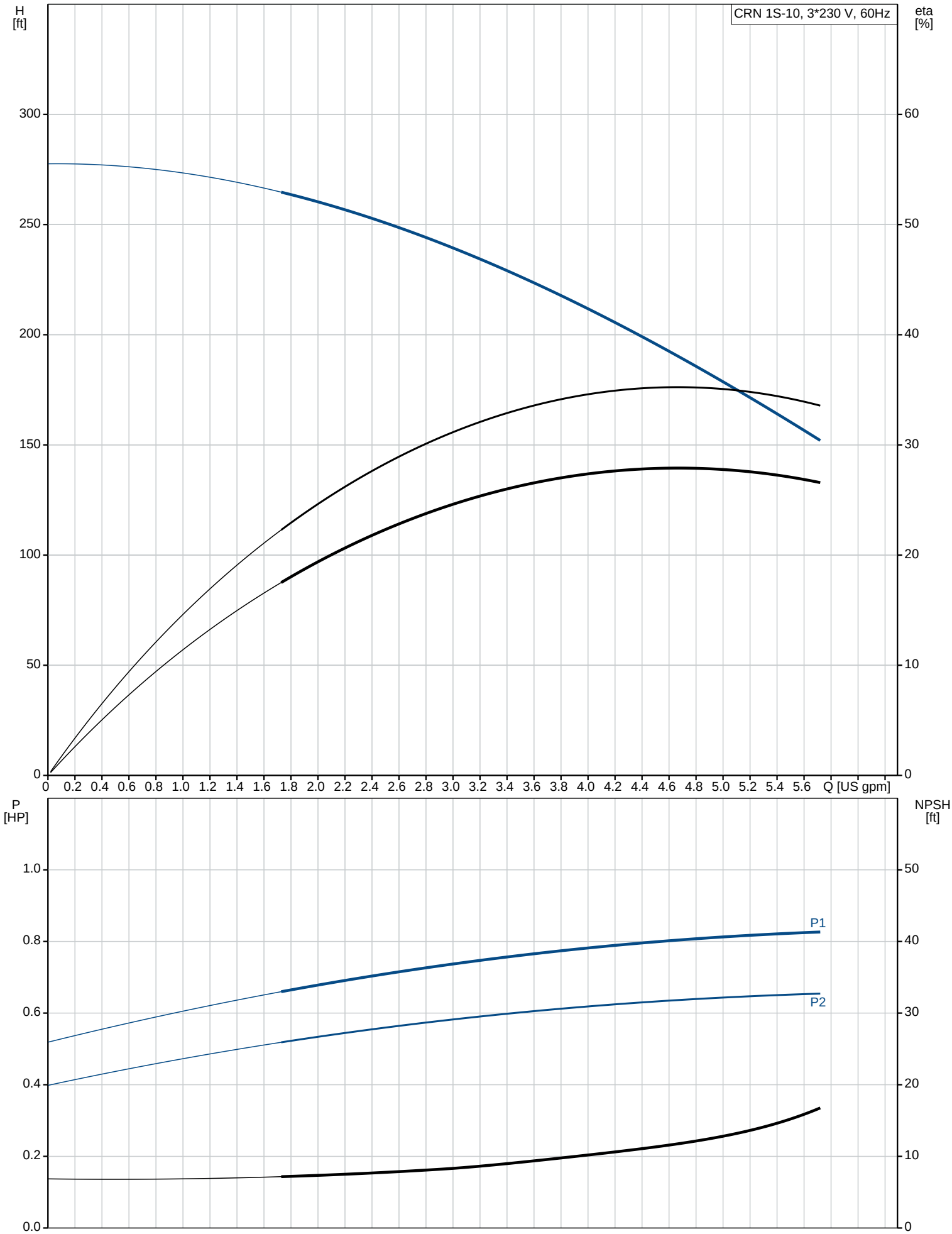
Net weight:	57.7 lb
Gross weight:	68.7 lb
Shipping volume:	6.11 ft^3
Country of origin:	US
Custom tariff no.:	8413.70.2040

GRUNDFOS

Company name:
Created by:
Phone:

Date: 11/30/2018

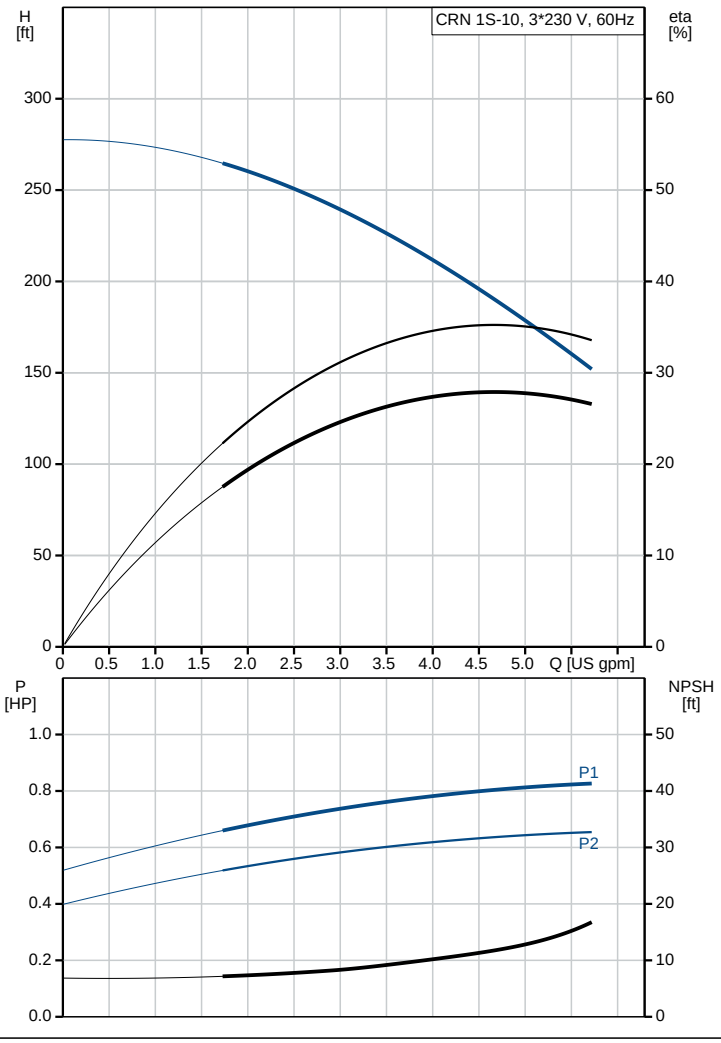
96081797 CRN 1S-10 A-FGJ-A-E-HQQE 60 Hz

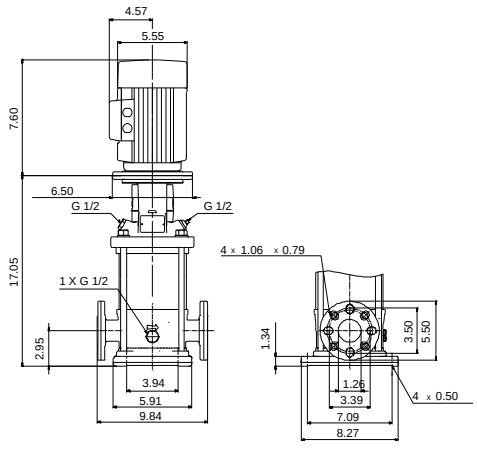


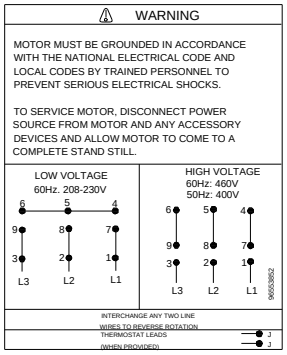
Company name:
Created by:
Phone:

Date: 11/30/2018

Description	Value
General information:	
Product name:	CRN 1S-10 A-FGJ-A-E-HQQE
Product No.:	96081797
EAN:	5700395162516
Technical:	
Rated pump speed:	3439 rpm
Rated flow:	4.84 US gpm
Rated head:	184.1 ft
Head max:	276.9 ft
Stages:	10
Impellers:	10
Number of reduced-diameter impellers:	0
Low NPSH:	No
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CURUS,NSF61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	TEFC
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	363 psi
Max pressure at stated temperature:	363 psi / 250 °F
	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Size of suction port:	1 1/4 inch
Size of outlet connection:	DN 25/32
Size of outlet port:	1 1/4 inch
Pressure rating for pipe connection:	PN 25
Flange rating inlet:	300 lb
Flange size for motor:	56C
Connect code:	FGJ
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Motor type:	71BA
Rated power - P2:	0.75 HP
Power (P2) required by pump:	0.75 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1.25
Rated current:	2,40-2,30/1,20 A
Starting current:	590-650 %
Load current:	2,9-2,75/1,4 A
Cos phi - power factor:	0.84-0.78
Rated speed:	3430-3460 rpm
Motor efficiency at full load:	79.0-80.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting







GRUNDFOS

Company name:
Created by:
Phone:

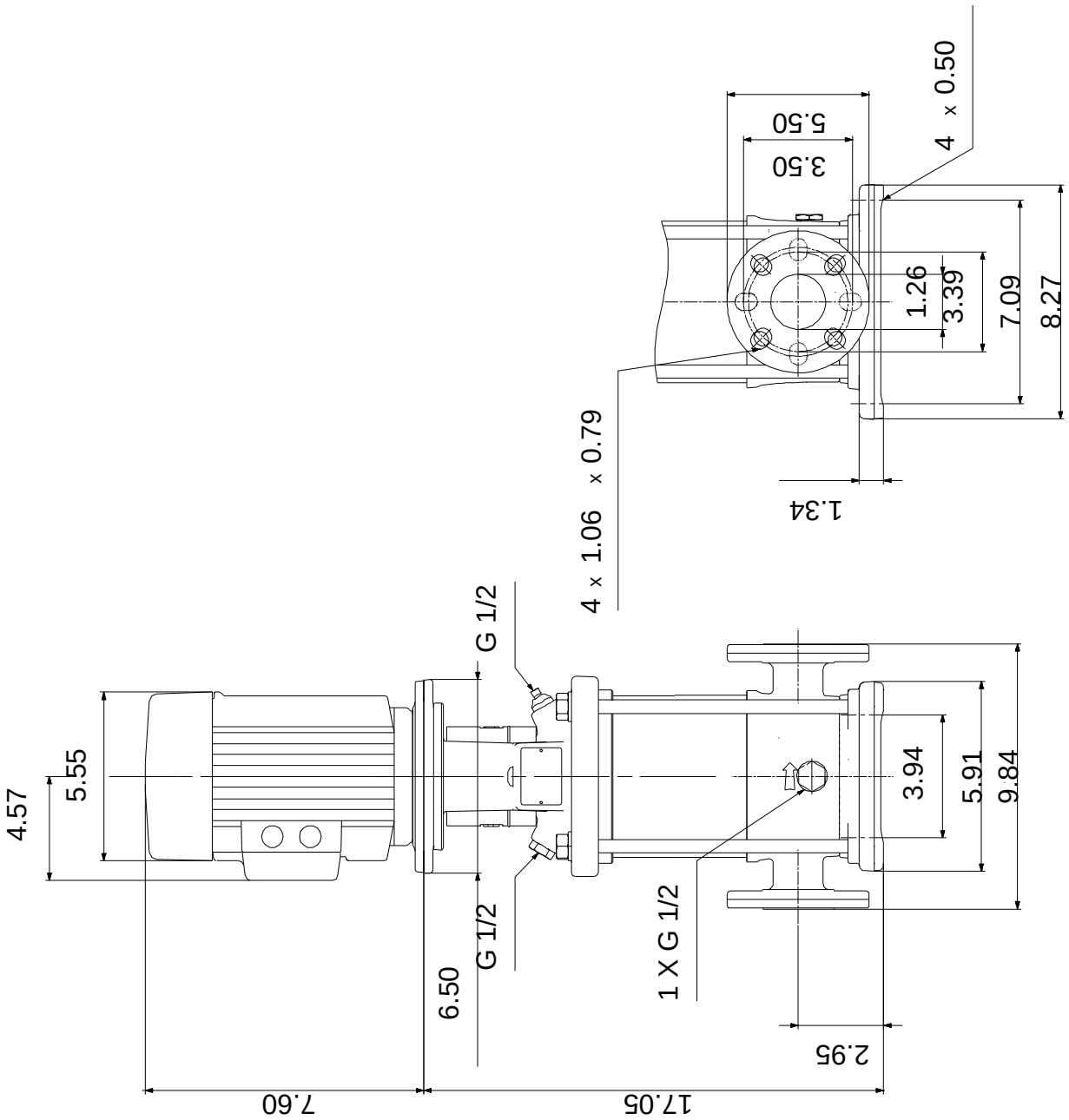
Date: 11/30/2018

Description	Value
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85900702
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	57.7 lb
Gross weight:	68.7 lb
Shipping volume:	6.11 ft^3
Country of origin:	US
Custom tariff no.:	8413.70.2040

Company name:
Created by:
Phone:

Date: 11/30/2018

96081797 CRN 1S-10 A-FGJ-A-E-HQQE 60 Hz



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

Company name:
Created by:
Phone:

Date: 11/30/2018

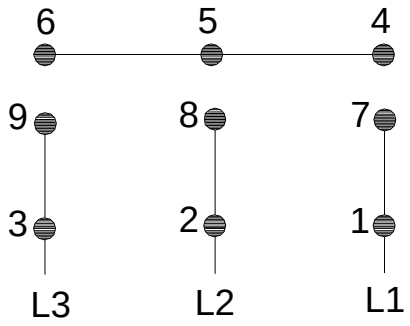
96081797 CRN 1S-10 A-FGJ-A-E-HQQE 60 Hz

WARNING

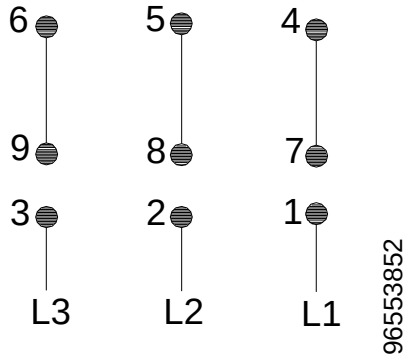
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL.

LOW VOLTAGE
60Hz. 208-230V



HIGH VOLTAGE
60Hz: 460V
50Hz: 400V



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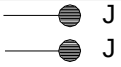
INTERCHANGE ANY TWO LINE WIRES TO REVERSE ROTATION

THERMOSTAT LEADS (WHEN PROVIDED)



All units are [mm] unless otherwise presented.