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

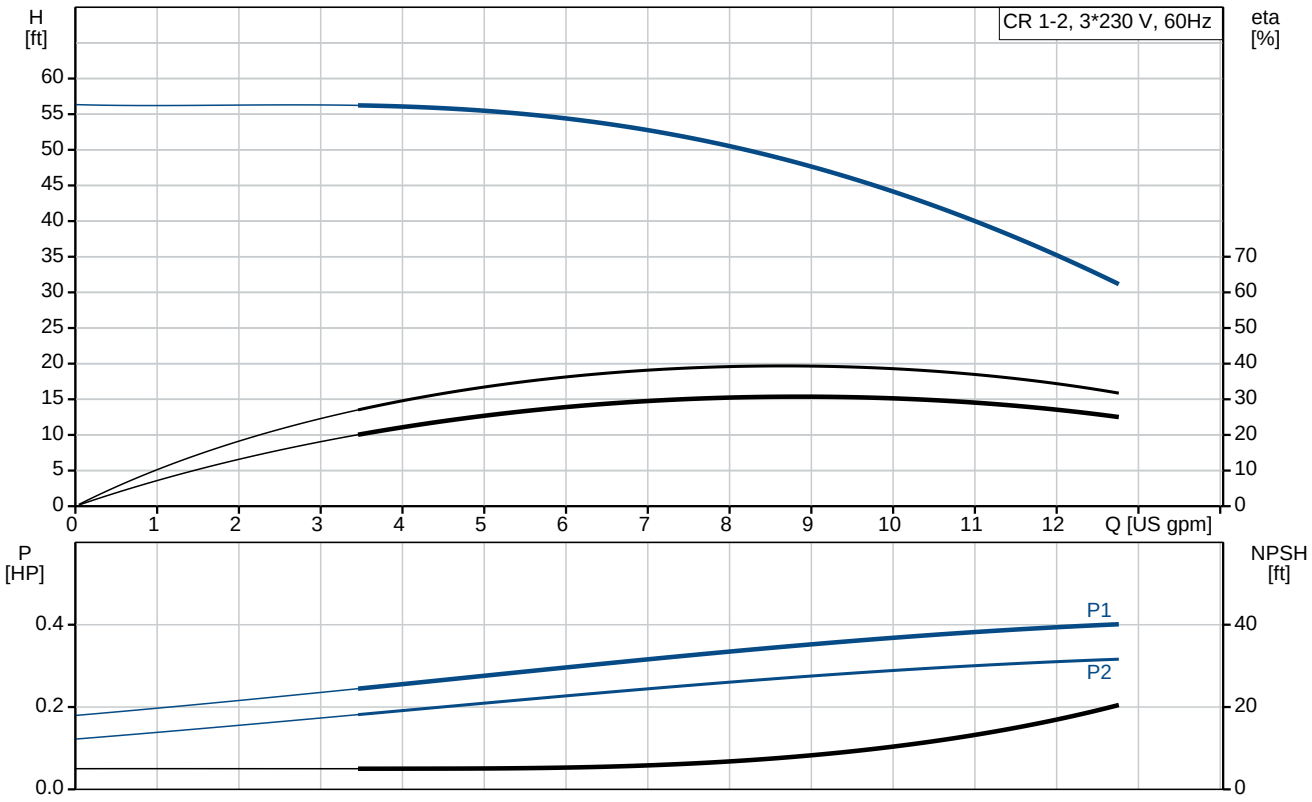
CR 1-2 A-B-A-V-HQQV

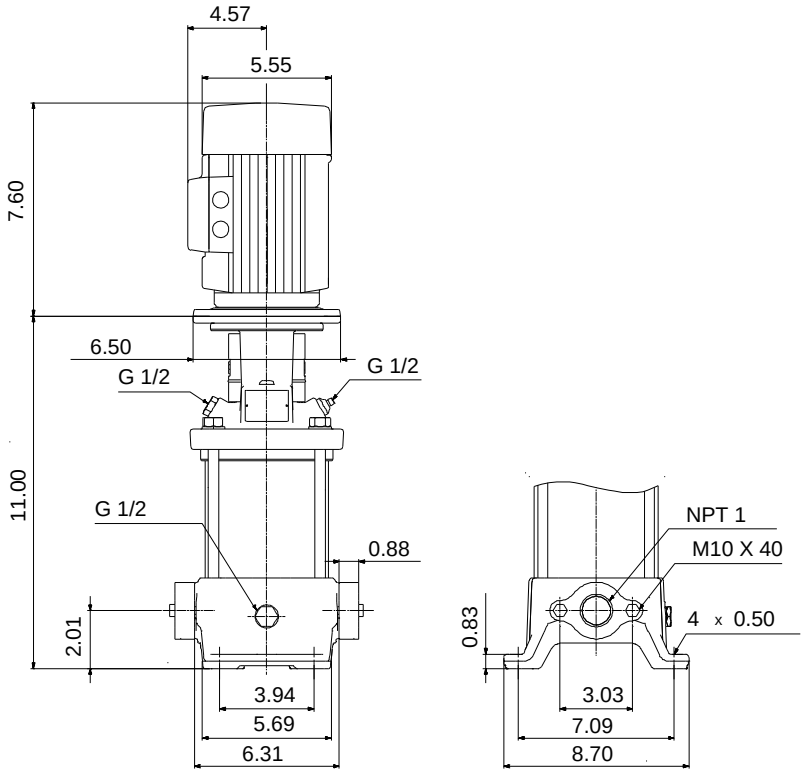
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

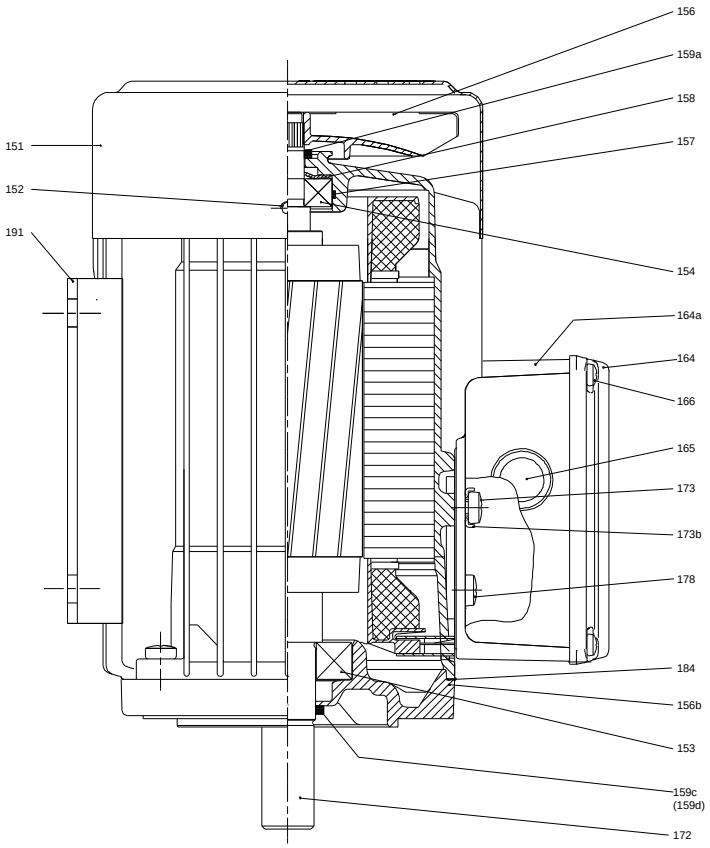
Conditions of Service	
Flow:	
Head:	
Efficiency:	
Liquid:	Water
Temperature:	68 °F
NPSH required:	ft
Viscosity:	
Specific Gravity:	1.000

Pump Data	
Max pressure at stated temperature:	232 psi / 194 °F
Liquid temperature range:	-4 .. 194 °F
Maximum ambient temperature:	104 °F
Approvals:	CURUS
Shaft seal:	HQQV
Product number:	96082036

Motor Data	
Rated power - P2:	0.33 HP
Rated voltage:	208-230YY/460Y V
Main frequency:	60 Hz
Enclosure class:	55 Dust/Jetting
Insulation class:	F
Motor protection:	NONE
Motor type:	71AA
Motor_efficiency:	77.4 %







Materials:

Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
Impeller:	Stainless steel AISI 304 EN 1.4301
Material code:	A
Code for rubber:	V

GRUNDFOS

Company name:
Created by:
Phone:

Date: 4/20/2020

Count	Description
1	**CR 1-2 A-B-A-V-HQQV**

Product No.: 96082036

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via oval flanges with internal NPT threads.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Liquid:

Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³

Technical:

Rated pump speed:	3425 rpm
Rated flow:	9.69 US gpm
Rated head:	45.28 ft
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CURUS
Curve tolerance:	ISO9906:2012 3B

Materials:

Base:	Cast iron EN 1561 EN-GJL-200 ASTM A48-25B
Impeller:	Stainless steel EN 1.4301 AISI 304
Bearing:	SIC

Installation:

Maximum ambient temperature:	104 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temperature:	232 psi / 194 °F 232 psi / -4 °F
Type of connection:	Oval / NPT(F)
Size of suction port:	1 inch
Size of outlet port:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C

Electrical data:

Motor standard:	NEMA
Motor type:	71AA

GRUNDFOS

Company name:
Created by:
Phone:

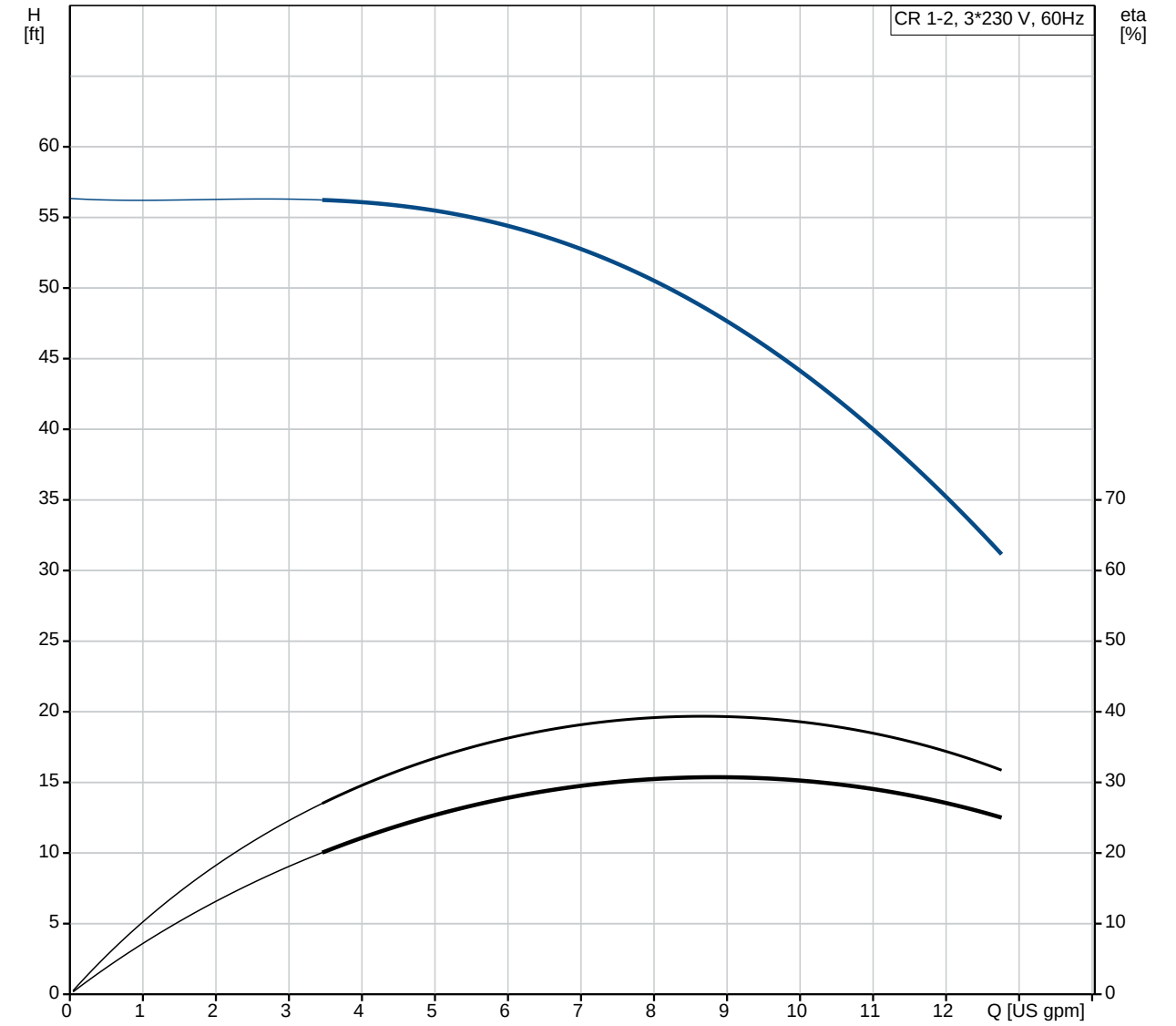
Date: 4/20/2020

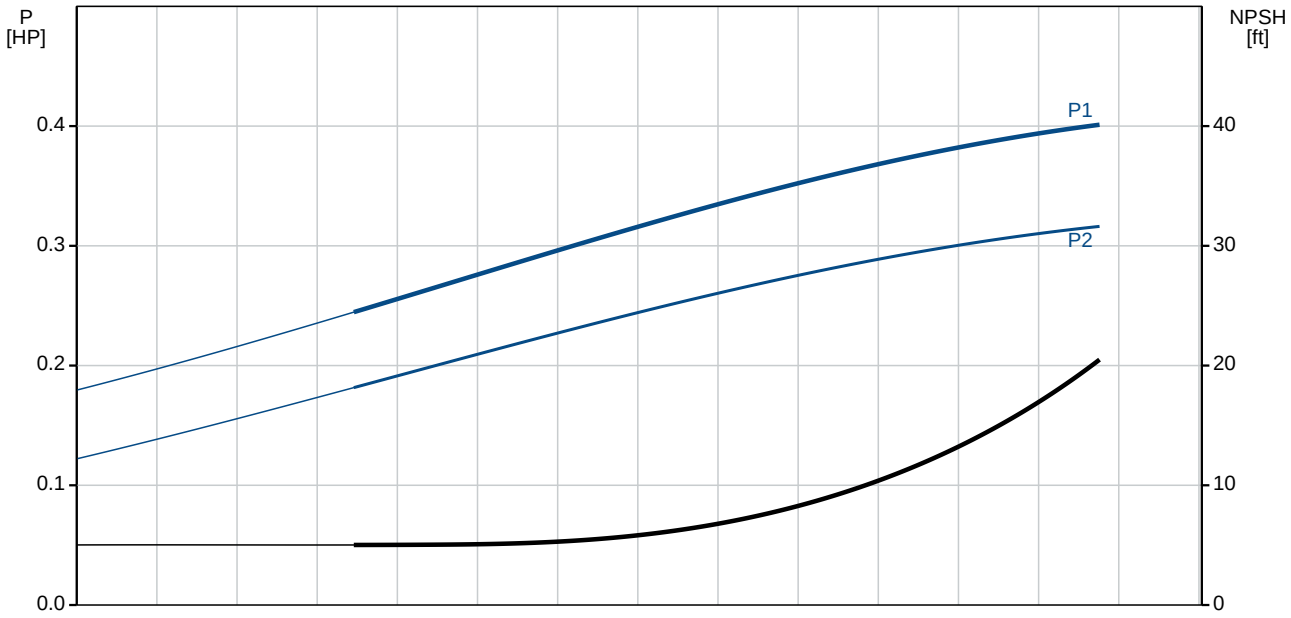
Count	Description	
	IE Efficiency class:	NEMA Premium / IE3 60Hz
	Rated power - P2:	0.33 HP
	Power (P2) required by pump:	0.33 HP
	Main frequency:	60 Hz
	Rated voltage:	3 x 208-230YY/460Y V
	Service factor:	1.35
	Rated current:	1,12-1,10/0,55 A
	Starting current:	630-700 %
	Cos phi - power factor:	0.81-0.75
	Rated speed:	3450-3480 rpm
	Motor efficiency at full load:	77.4 %
	Motor efficiency at 3/4 load:	77.7 %
	Motor efficiency at 1/2 load:	73.3 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	55 Dust/Jetting
	Insulation class (IEC 85):	F
	Motor Number:	85900700
	Controls:	
	Frequency converter:	NONE
	Others:	
	Net weight:	45.6 lb
	Gross weight:	56.6 lb
	Shipping volume:	4.94 ft³
	Country of origin:	US
	Custom tariff no.:	8413.70.2040

Company name:
Created by:
Phone:

Date: 4/20/2020

96082036 CR 1-2 A-B-A-V-HQQV 60 Hz



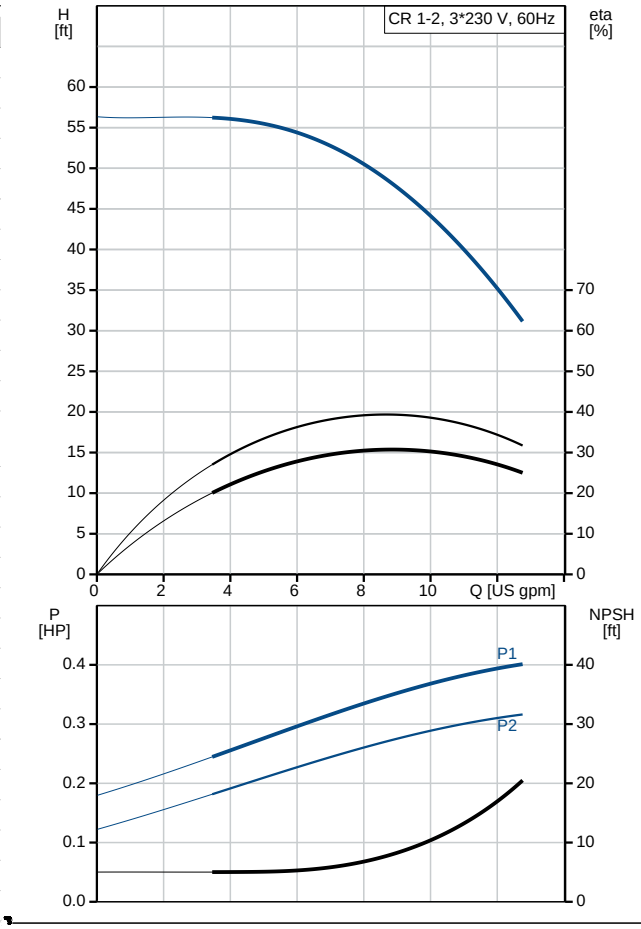


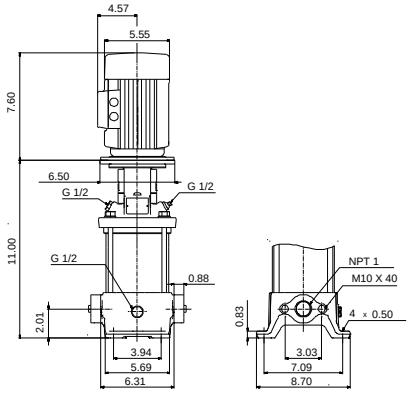
GRUNDFOS

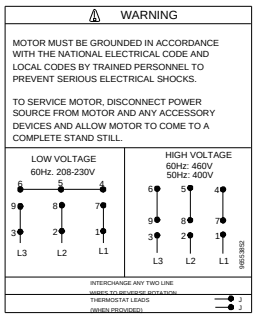
Company name:
Created by:
Phone:

Date: 4/20/2020

Description	Value
General information:	
Product name:	CR 1-2 A-B-A-V-HQQV
Product No.:	96082036
EAN:	5700395167740
	5700395167740
Technical:	
Rated pump speed:	3425 rpm
Rated flow:	9.69 US gpm
Rated head:	45.28 ft
Maximum head:	59.39 ft
Stages:	3
Impellers:	2
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CURUS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	TEFC
Materials:	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	V
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	232.06 psi
Max pressure at stated temperature:	232 psi / 194 °F
	232 psi / -4 °F
Type of connection:	Oval / NPT(F)
Size of suction port:	1 inch
Size of outlet port:	1 inch
Pressure rating for connection:	PN 16
Flange size for motor:	56C
Connect code:	B
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Motor type:	71AA
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	0.33 HP
Power (P2) required by pump:	0.33 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1.35







GRUNDFOS

Company name:
Created by:
Phone:

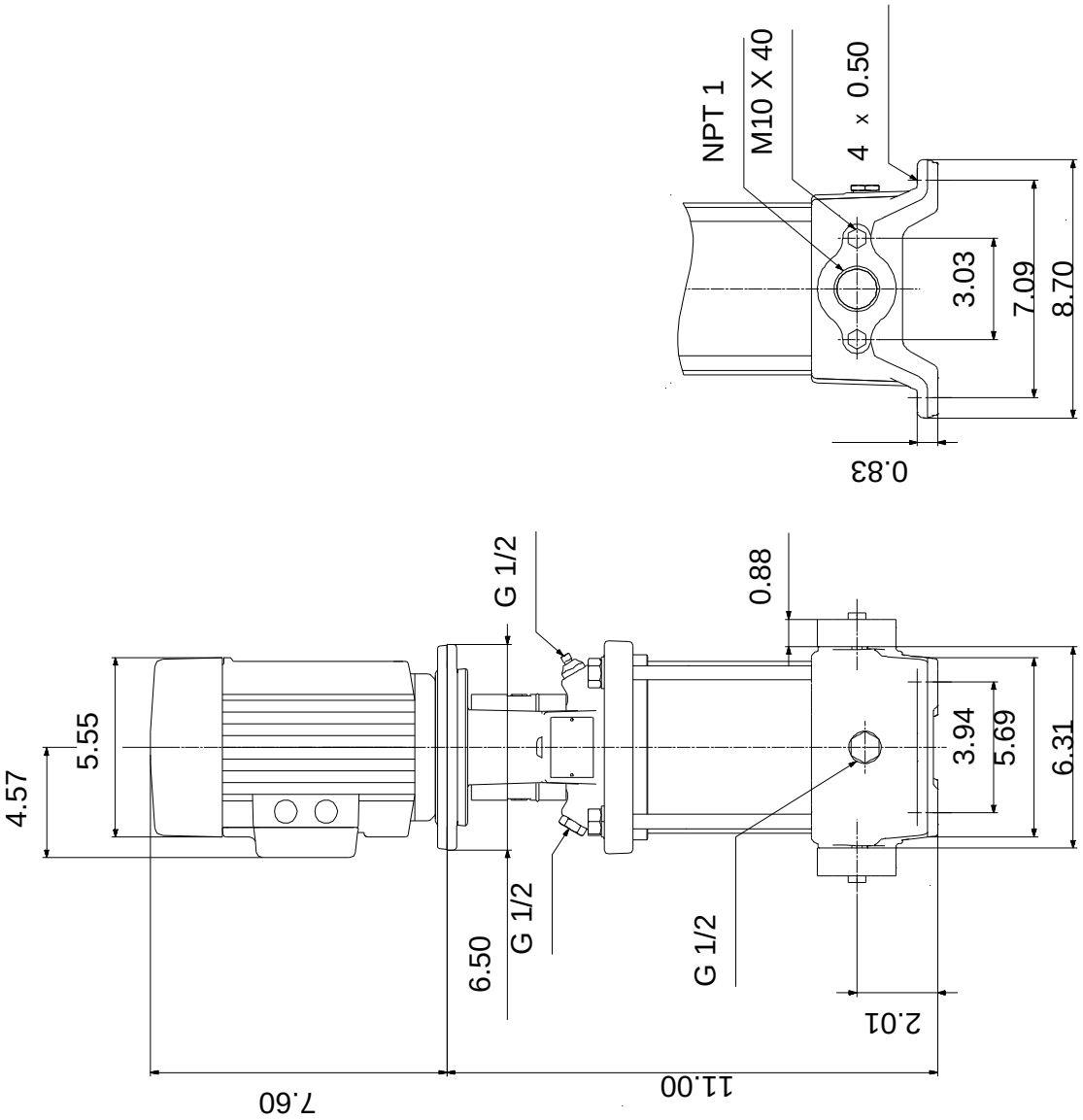
Date: 4/20/2020

Description	Value
Rated current:	1,12-1,10/0,55 A
Starting current:	630-700 %
Load current:	1,5-1,45/0,75 A
Cos phi - power factor:	0.81-0.75
Rated speed:	3450-3480 rpm
Motor efficiency at full load:	77.4 %
Motor efficiency at 3/4 load:	77.7 %
Motor efficiency at 1/2 load:	73.3 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85900700
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	45.6 lb
Gross weight:	56.6 lb
Shipping volume:	4.94 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040

Company name:
Created by:
Phone:

Date: 4/20/2020

96082036 CR 1-2 A-B-A-V-HQQV 60 Hz



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

Company name:
Created by:
Phone:

Date: 4/20/2020

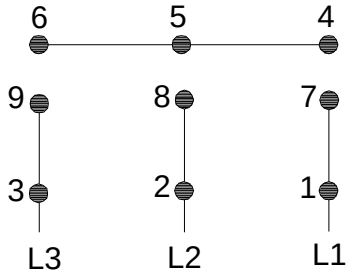
96082036 CR 1-2 A-B-A-V-HQQV 60 Hz

WARNING

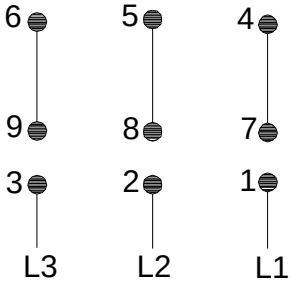
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

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)

J
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All units are [in] unless otherwise presented.