

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

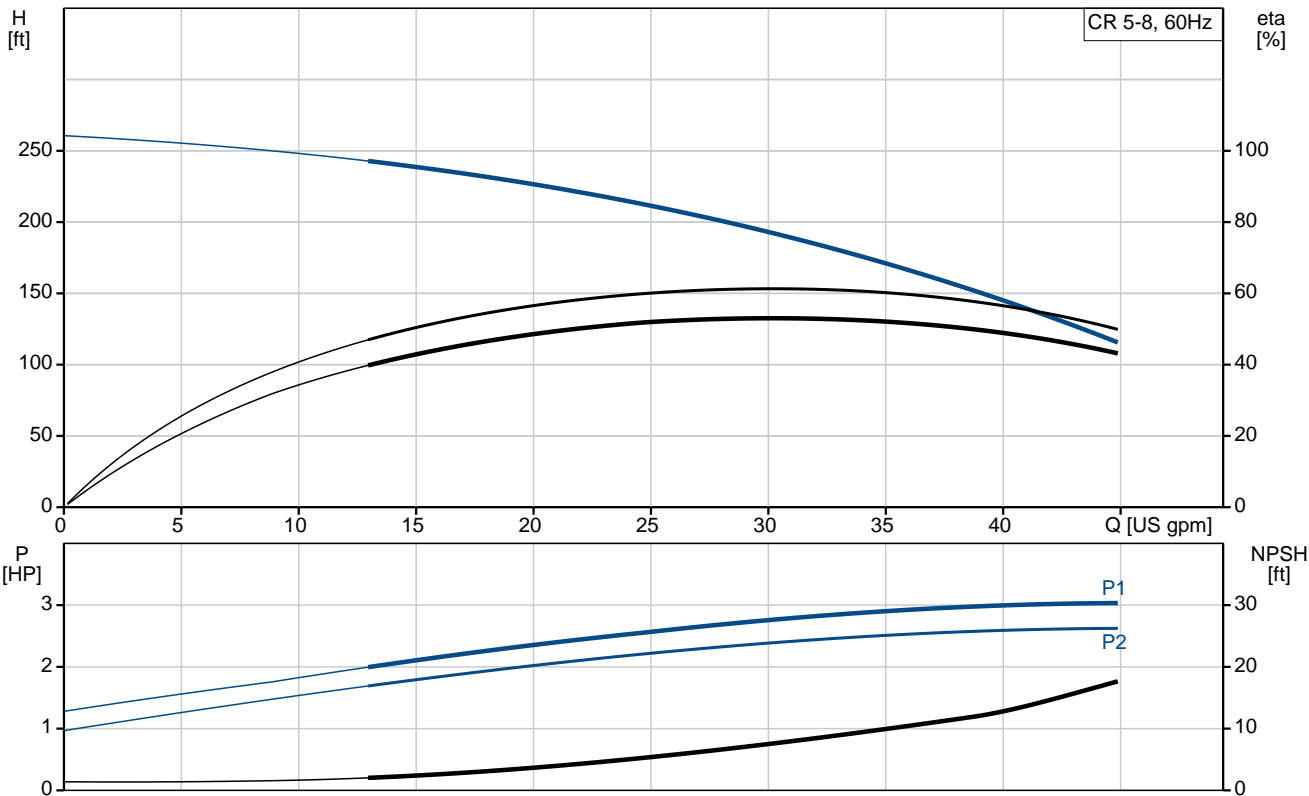


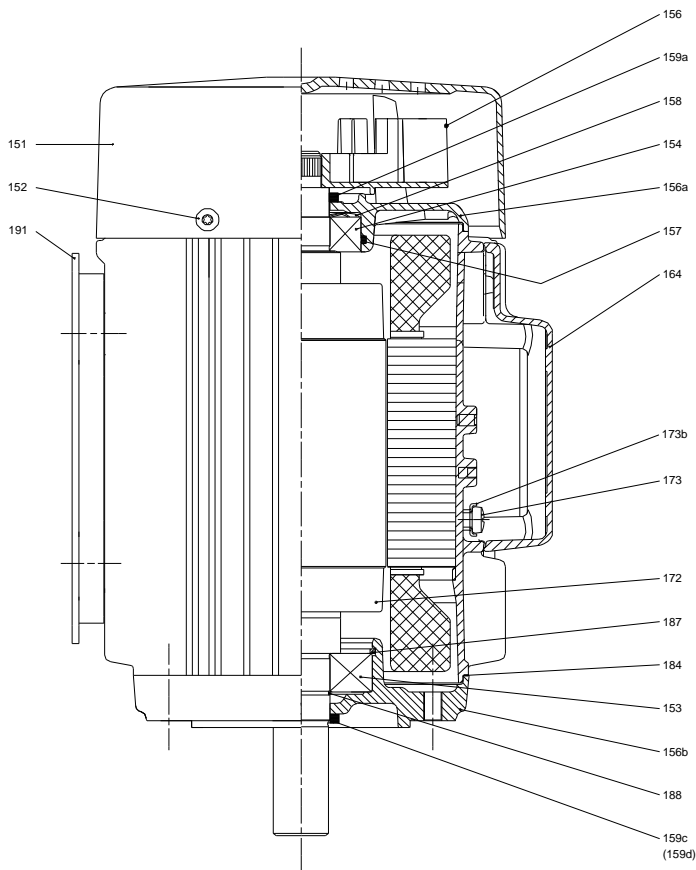
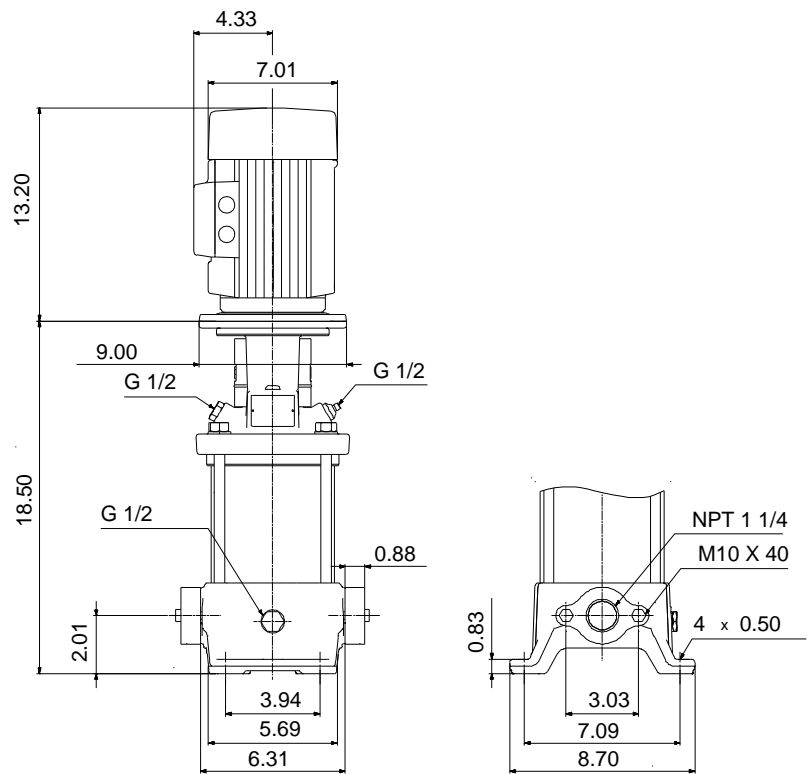
**CR 5-8A-B-A-V-HQQV**

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)

Product photo could vary from the actual product


Conditions of Service	Pump Data	Motor Data
Flow: _____	Max pressure at stated temperature: 232 psi / 194 °F	Rated power - P2: 3 HP
Head: _____	Liquid temperature range: -4 .. 194 °F	Rated voltage: 208-230YY/460Y V
Efficiency: _____	Maximum ambient temperature: 140 °F	Main frequency: 60 Hz
Liquid: Water	Approvals: CURUS	Enclosure class: 55 Dust/Jetting
Temperature: 68 °F	Shaft seal: HQQV	Insulation class: F
NPSH required: ft	Product number: 96084184	Motor protection: NONE
Viscosity: _____		Motor type: 90FA
Specific Gravity: 1.000		Motor_efficiency: 86.5 %





**Materials:**

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

Count	Description
1	<p><b>CR 5-8A-B-A-V-HQQV</b></p>  <p>Product No.: <a href="#">96084184</a> Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> <li>- Impellers and intermediate chambers are made of</li> <li>- The shaft seal has assembly length according to EN 12756.</li> <li>- Power transmission is via cast iron split coupling.</li> </ul> <p>The motor is a 3-phase AC motor.</p> <p>Controls:</p> <p>Frequency converter: NONE</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water Liquid temperature range: -4 .. 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³</p> <p><b>Technical:</b></p> <p>Rated pump speed: 3461 rpm Rated flow: 30.4 US gpm Rated head: 196.2 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Bearing: SIC</p> <p><b>Installation:</b></p> <p>Maximum ambient temperature: 140 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F</p> <p>Type of connection: Oval / NPT(F)</p>



Company name:

Created by:

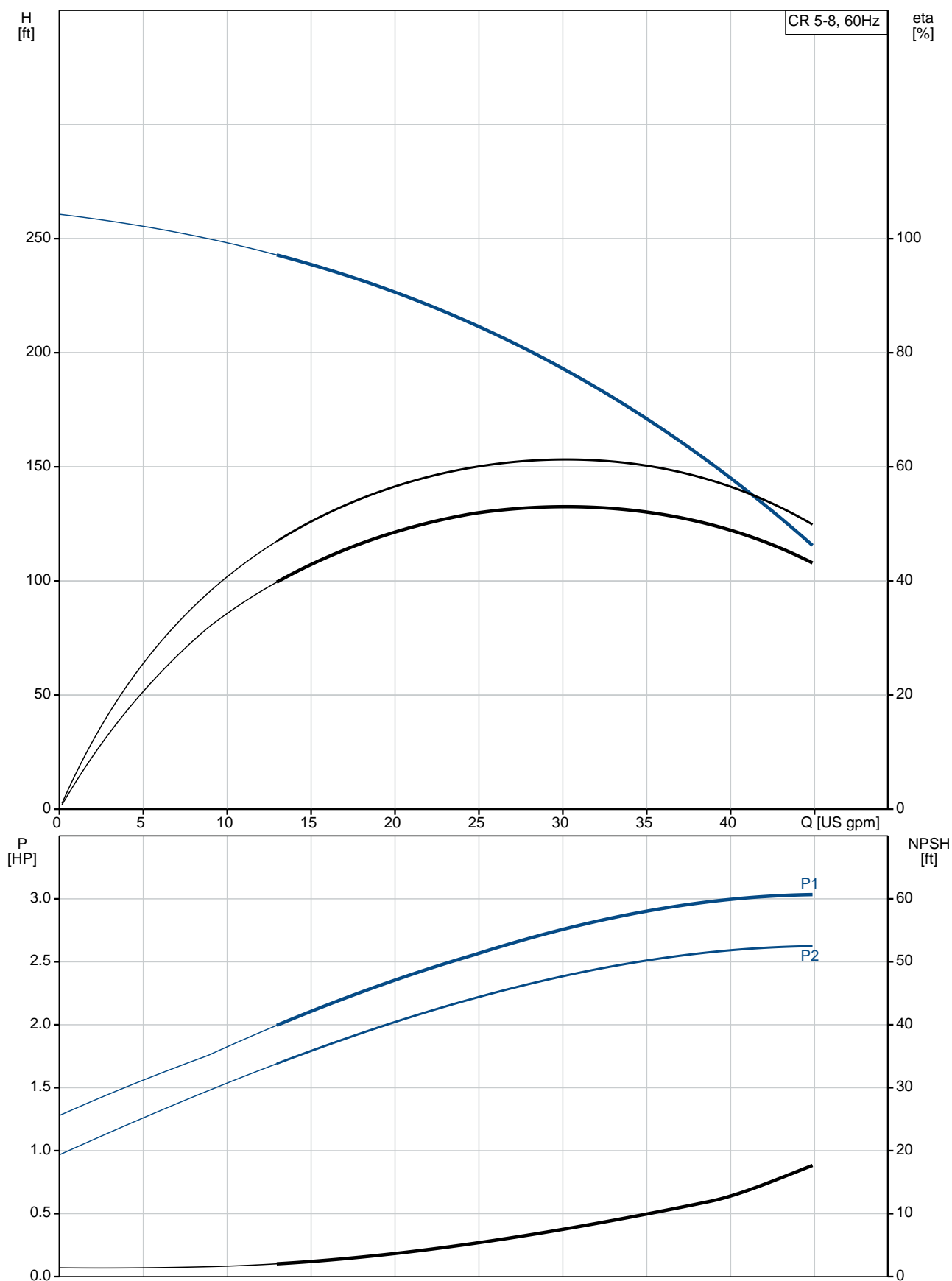
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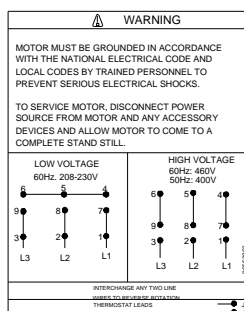
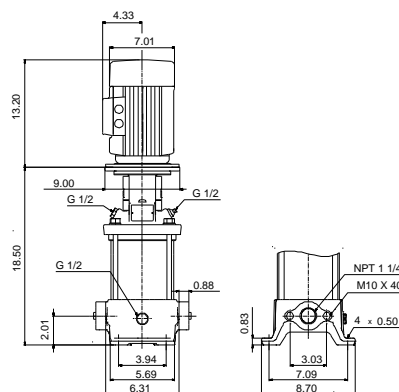
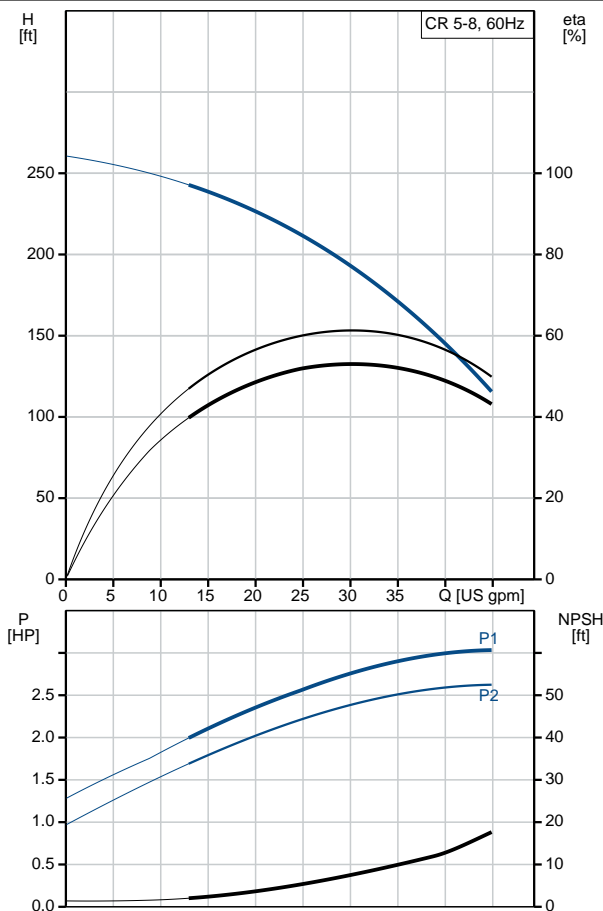
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Count	Description
	Size of suction port: 1 1/4 inch Size of outlet port: 1 1/4 inch Pressure rating for pipe connection: PN 16 Flange size for motor: 182TC  <b>Electrical data:</b> Motor standard: NEMA Motor type: 90FA IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 3 HP Power (P2) required by pump: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230YY/460Y V Service factor: 1.15 Rated current: 8,35-7,80/3,9 A Starting current: 940-1040 % Cos phi - power factor: 0.89-0.86 Rated speed: 3510-3530 rpm IE efficiency: IE3 86,5% Motor efficiency at full load: 86.5 % Motor efficiency at 3/4 load: 86.5 % Motor efficiency at 1/2 load: 84.0 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor Number: 85903977  <b>Others:</b> Net weight: 91 lb Gross weight: 105 lb Shipping volume: 8.26 ft <sup>3</sup> Country of origin: US Custom tariff no.: 8413.70.2040

## 96084184 CR 5-8A-B-A-V-HQQV 60 Hz



Description	Value
<b>General information:</b>	
Product name:	CR 5-8A-B-A-V-HQQV
Product No.:	96084184
EAN:	5700395190229
<b>Technical:</b>	
Rated pump speed:	3461 rpm
Rated flow:	30.4 US gpm
Rated head:	196.2 ft
Head max:	273 ft
Stages:	8
Impellers:	8
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
<b>Materials:</b>	
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
<b>Installation:</b>	
Maximum ambient temperature:	140 °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 1/4 inch
Size of outlet port:	1 1/4 inch
Pressure rating for pipe connection:	PN 16
Flange size for motor:	182TC
Connect code:	B
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
<b>Electrical data:</b>	
Motor standard:	NEMA
Motor type:	90FA
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	3 HP
Power (P2) required by pump:	3 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1.15
Rated current:	8,35-7,80/3,9 A





Company name:

Created by:

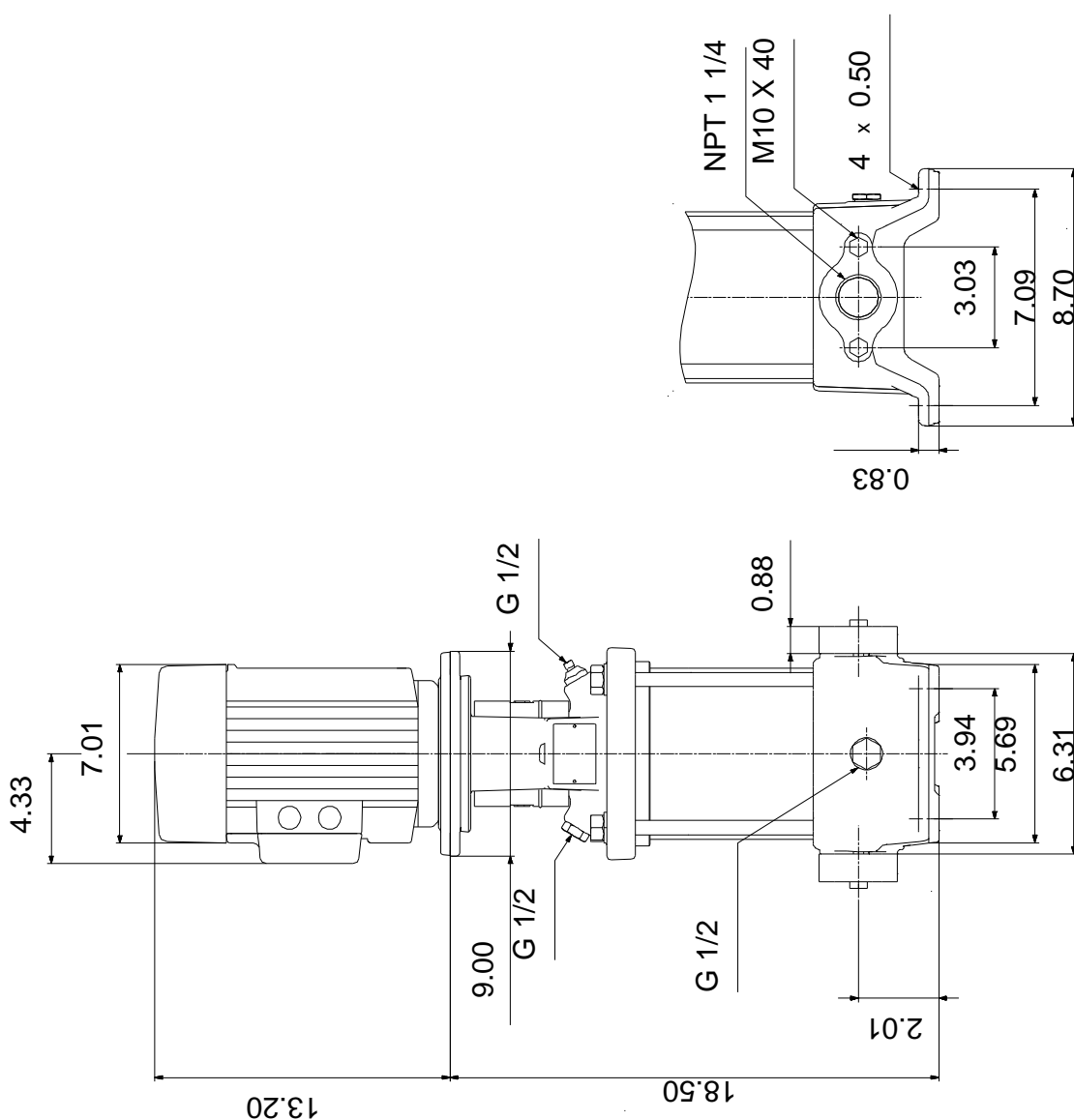
Phone:

Date:

5/2/2019

Description	Value
Starting current:	940-1040 %
Load current:	9,5-8,95/4,5 A
Cos phi - power factor:	0.89-0.86
Rated speed:	3510-3530 rpm
IE efficiency:	IE3 86,5%
Motor efficiency at full load:	86.5 %
Motor efficiency at 3/4 load:	86.5 %
Motor efficiency at 1/2 load:	84.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	NONE
Motor Number:	85903977
<b>Controls:</b>	
Frequency converter:	NONE
<b>Others:</b>	
Net weight:	91 lb
Gross weight:	105 lb
Shipping volume:	8.26 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040

## 96084184 CR 5-8A-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.



## 96084184 CR 5-8A-B-A-V-HQQV 60 Hz

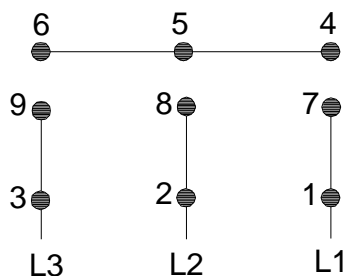


### WARNING

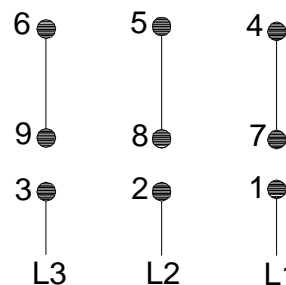
MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS.

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



96553852

INTERCHANGE ANY TWO LINE  
WIRES TO REVERSE ROTATION

THERMOSTAT LEADS  
(WHEN PROVIDED)

