

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

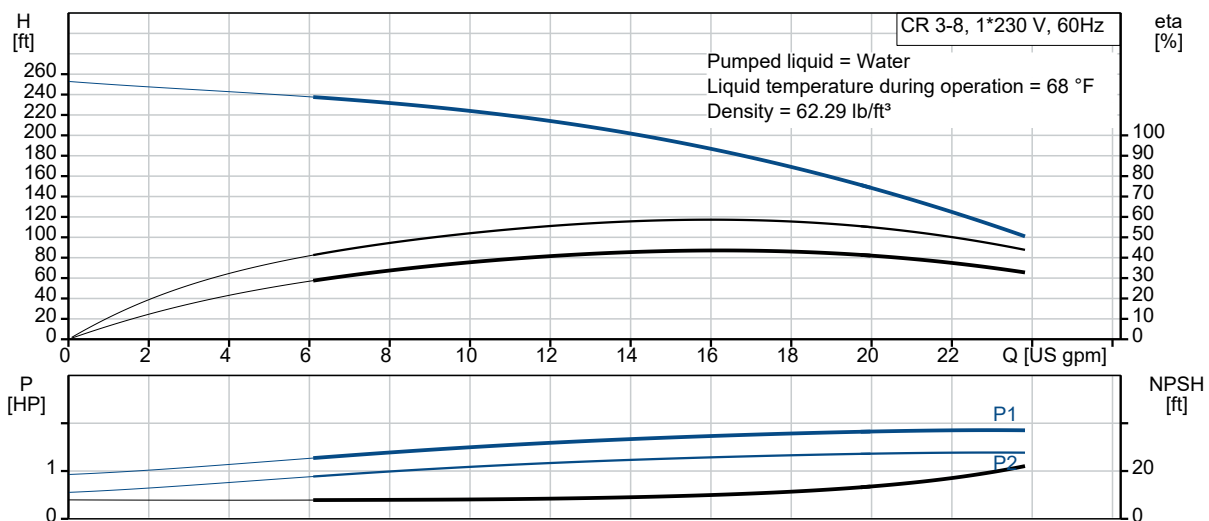


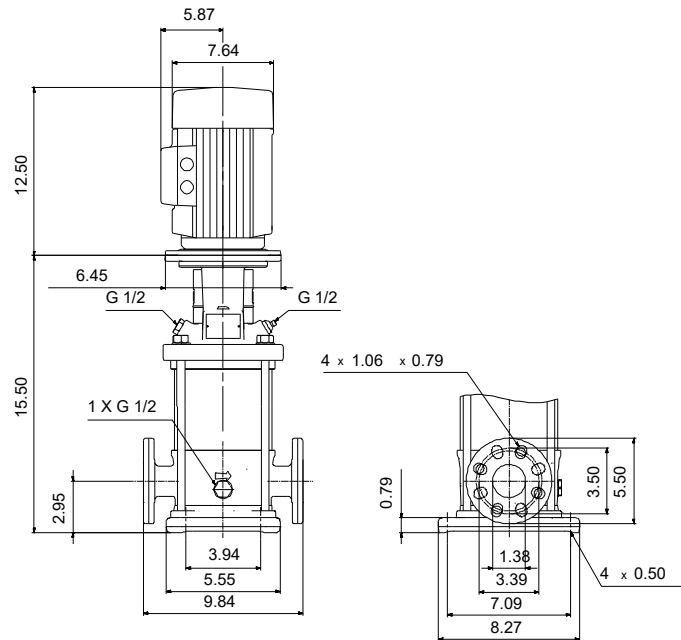
Product photo could vary from the actual product

CR 3-8 A-FGJ-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)


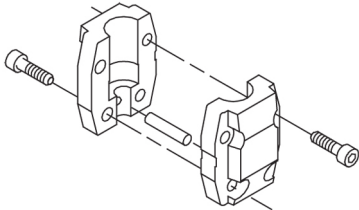
Conditions of Service	Pump Data	Motor Data
Efficiency: _____	Max pressure at stated temperature: 363 psi / 194 °F	Rated power - P2: 1.5 HP
Liquid: Water	Liquid temperature range: -4 .. 194 °F	Rated voltage: 115/208-230 V
Temperature: 68 °F	Maximum ambient temperature: 104 °F	Main frequency: 60 Hz
NPSH required: ft	Approvals: CURUS	Enclosure class: IP55
Specific Gravity: 1.000	Shaft seal: HQQV	Insulation class: F
	Product number: 99916299	Motor protection: PTO
		Motor type: WEG
		Eff. 1/1: 75.0 %





Materials:

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

Count	Description
1	<p>CR 3-8 A-FGJ-A-V-HQQV</p>  <p>Product No.: 99916299</p> <p>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 combined DIN-ANSI-JIS flanges.</p> <p>The pump is fitted with a 1-phase, fan-cooled asynchronous motor.</p> <p>Further product details</p> <p>Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process.</p> <p>CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.</p> <p>An integral part of the process is a pretreatment.</p> <p>The entire process consists of these elements:</p> <ol style="list-style-type: none"> 1) Alkaline-based cleaning. 2) Zinc phosphating. 3) Cathodic electro-deposition. 4) Curing to a dry film thickness 18-22 my m. <p>The colour code for the finished product is NCS 9000/RAL 9005.</p> <p>Pump</p> <p>A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.</p>  <p>The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.</p>



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system.

This seal type is assembled in a cartridge unit which makes replacement safe and easy.

Due to the balancing, this seal type is suitable for high-pressure applications.

The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

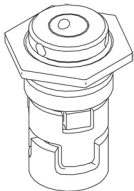
Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: FKM (fluorocarbon rubber)

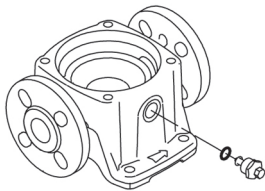
FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).

Electrical tolerances comply with IEC 60034.



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Count	Description
	<p>The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.</p> <p>Technical data</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -4 .. 194 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Technical:</p> <p>Rated pump speed: 3450 rpm</p> <p>Rated flow: 15.4 US gpm</p> <p>Rated head: 185.7 ft</p> <p>Pump orientation: Vertical</p> <p>Shaft seal arrangement: Single</p> <p>Code for shaft seal: HQQV</p> <p>Approvals on nameplate: CURUS</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Base: Cast iron</p> <p>EN 1561 EN-GJL-200</p> <p>ASTM A48-25B</p> <p>Impeller: Stainless steel</p> <p>EN 1.4301</p> <p>AISI 304</p> <p>Bearing: SIC</p> <p>SIC</p> <p>Installation:</p> <p>Maximum ambient temperature: 104 °F</p> <p>Maximum operating pressure: 362.59 psi</p> <p>Max pressure at stated temperature: 363 psi / 194 °F</p> <p>363 psi / -4 °F</p> <p>Type of connection: DIN / ANSI / JIS</p> <p>Size of inlet connection: DN 25/32</p> <p>Size of outlet connection: DN 25/32</p> <p>Pressure rating for connection: PN 25</p> <p>Flange rating inlet: 250 lb</p> <p>Flange size for motor: 56C</p> <p>Electrical data:</p> <p>Motor standard: NEMA</p> <p>Motor type: WEG</p> <p>Rated power - P2: 1.5 HP</p>



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Count	Description
	Power (P2) required by pump: 1.5 HP
	Main frequency: 60 Hz
	Rated voltage: 1 x 115/208-230 V
	Service factor: 1.15
	Rated current: 13,2/7,3-6,6 A
	Starting current: 800-800 %
	Cos phi - power factor: 0.97
	Rated speed: 3500 rpm
	IE efficiency: 75.0%
	Motor efficiency at full load: 75.0 %
	Motor efficiency at 3/4 load: 73.0 %
	Motor efficiency at 1/2 load: 66.0 %
	Number of poles: 2
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Motor Number: 99883319
	Controls:
	Frequency converter: NONE
	Others:
	Net weight: 76.7 lb
	Gross weight: 87.7 lb
	Shipping volume: 6.11 ft³
	Country of origin: US
	Custom tariff no.: 8413.70.2040



Company name:

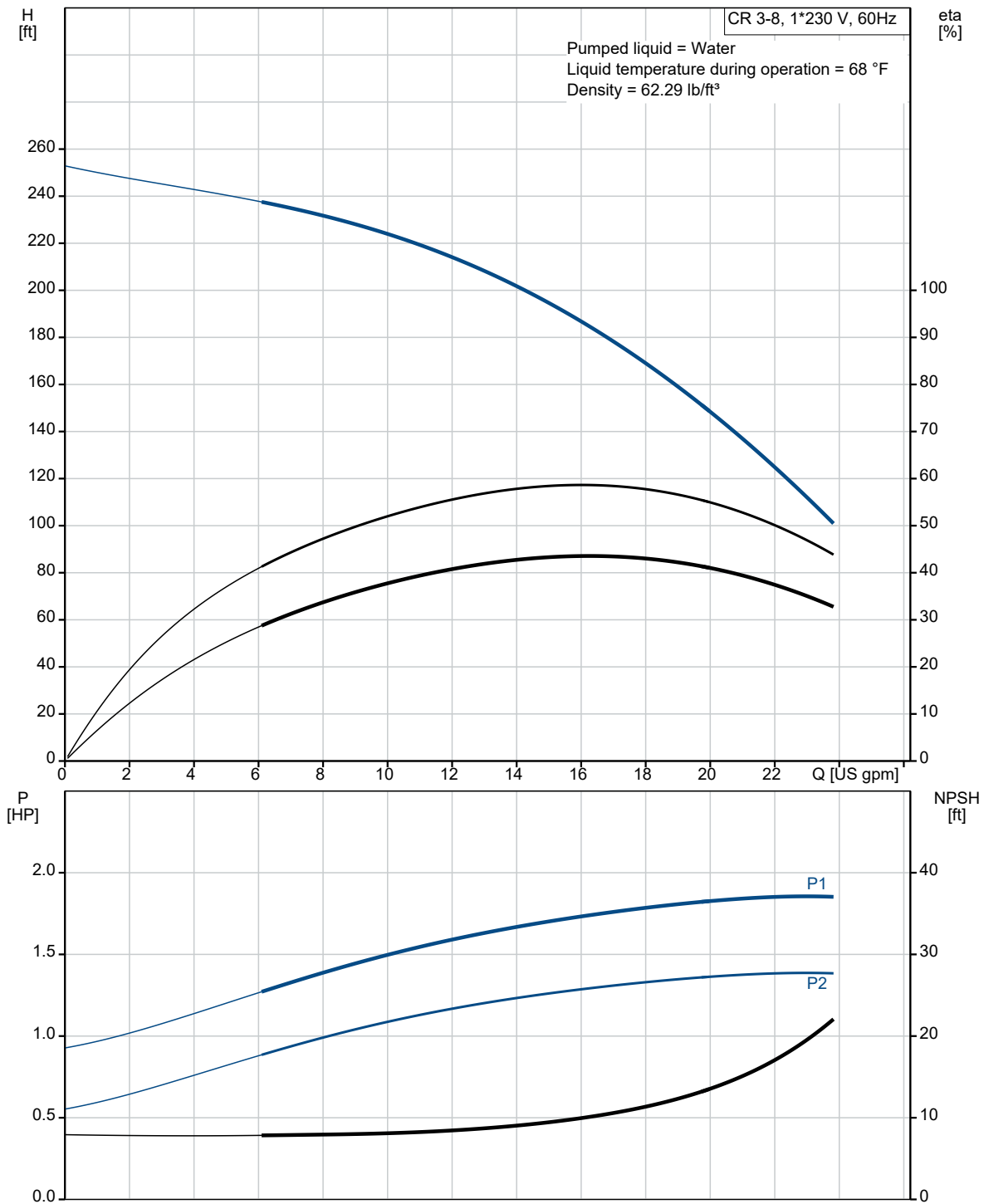
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99916299 CR 3-8 A-FGJ-A-V-HQQV 60 Hz





Company name:

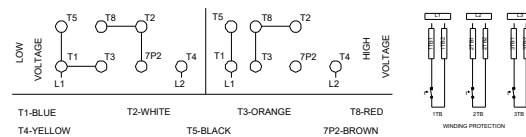
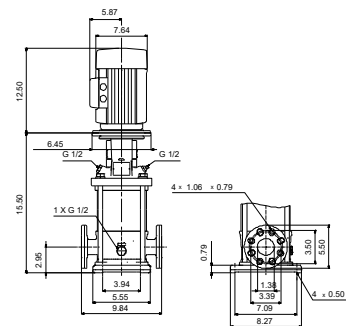
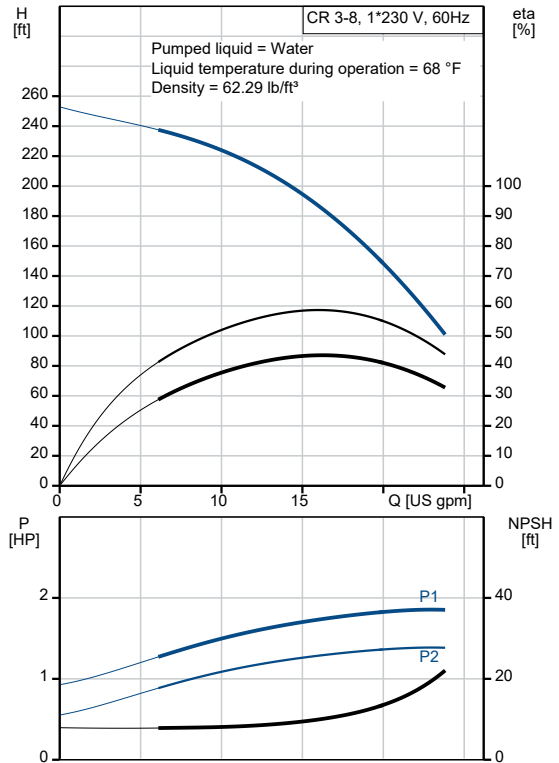
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Description	Value
General information:	
Product name:	CR 3-8 A-FGJ-A-V-HQQV
Product No.:	99916299
EAN:	5715114110471
Technical:	
Rated pump speed:	3450 rpm
Rated flow:	15.4 US gpm
Rated head:	185.7 ft
Maximum head:	250.3 ft
Stages:	8
Impellers:	8
Number 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:	IC 411
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	V
Bearing:	SIC
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	362.59 psi
Max pressure at stated temperature:	363 psi / 194 °F
Max pressure at stated temperature:	363 psi / -4 °F
Type of connection:	DIN / ANSI / JIS
Size of inlet connection:	DN 25/32
Size of outlet connection:	DN 25/32
Pressure rating for connection:	PN 25
Flange rating inlet:	250 lb
Flange size for motor:	56C
Connect code:	FGJ
Liquid:	





Company name:

Created by:

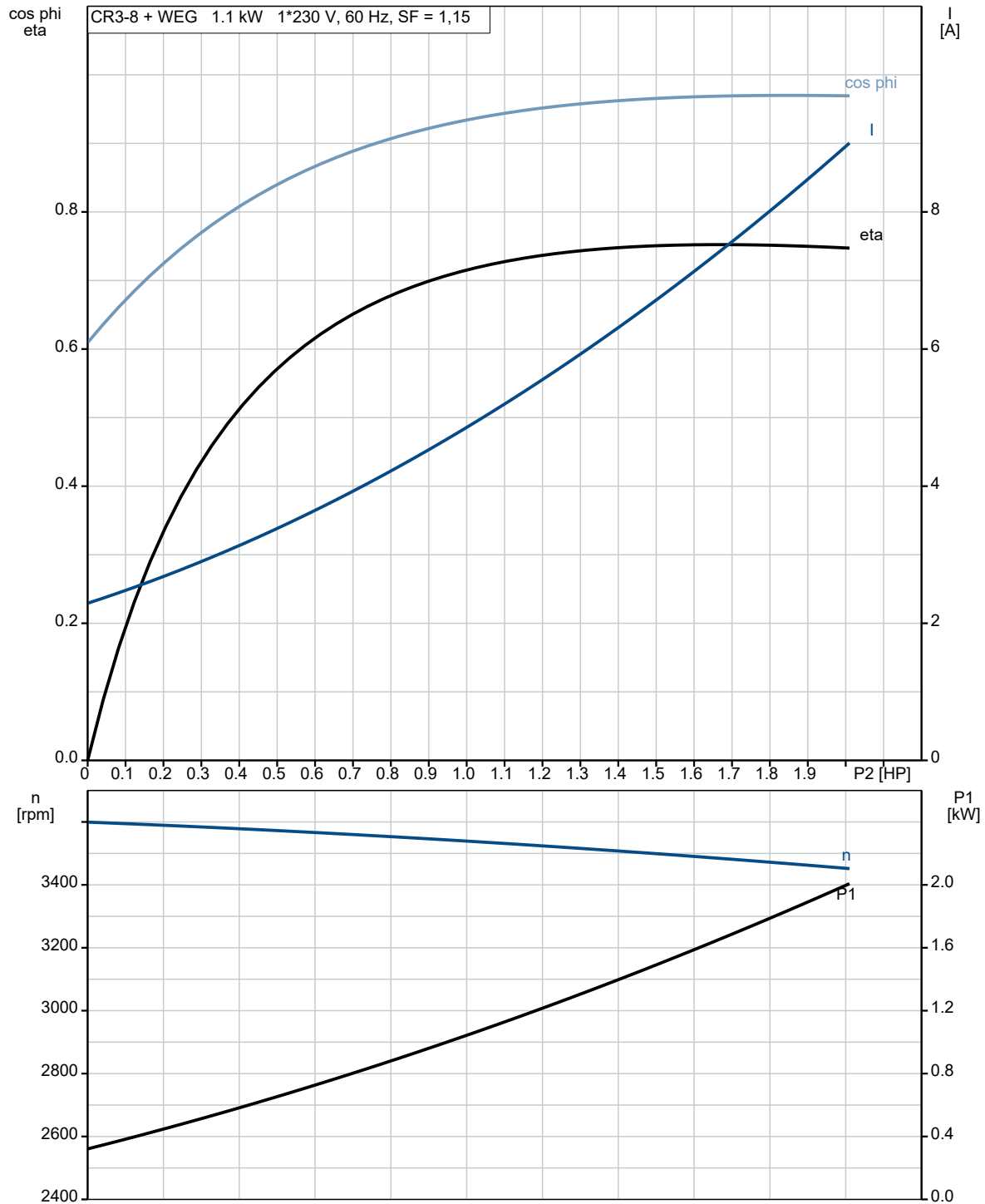
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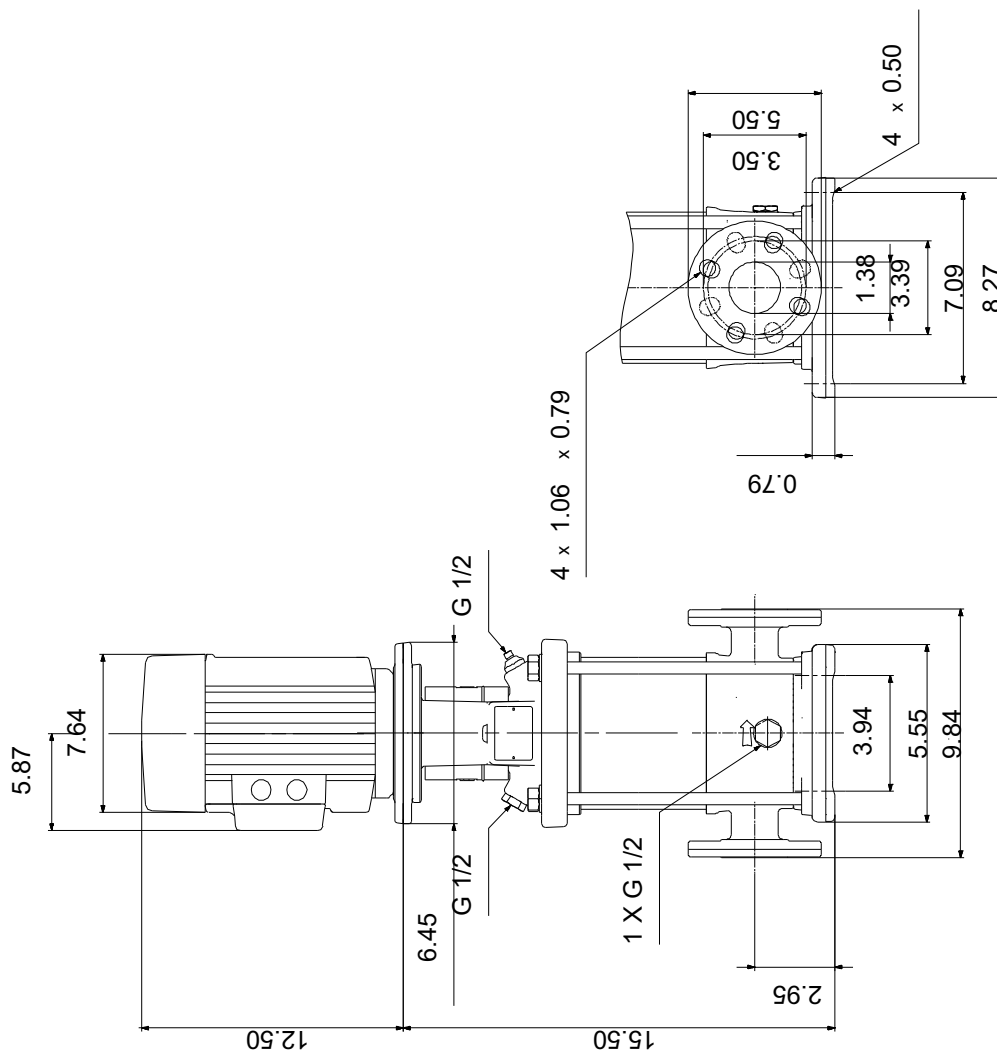
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Description	Value
Pumped liquid:	Water
Liquid temperature range:	-4 .. 194 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Motor type:	WEG
Rated power - P2:	1.5 HP
Power (P2) required by pump:	1.5 HP
Main frequency:	60 Hz
Rated voltage:	1 x 115/208-230 V
Service factor:	1.15
Rated current:	13,2/7,3-6,6 A
Starting current:	800-800 %
Load current:	15.2/6.6 A
Cos phi - power factor:	0.97
Rated speed:	3500 rpm
IE efficiency:	75.0%
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Motor efficiency at 3/4 load:	73.0 %
Motor efficiency at 1/2 load:	66.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protection:	PTO
Motor Number:	99883319
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	76.7 lb
Gross weight:	87.7 lb
Shipping volume:	6.11 ft³
Country of origin:	US
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99916299 CR 3-8 A-FGJ-A-V-HQQV 60 Hz



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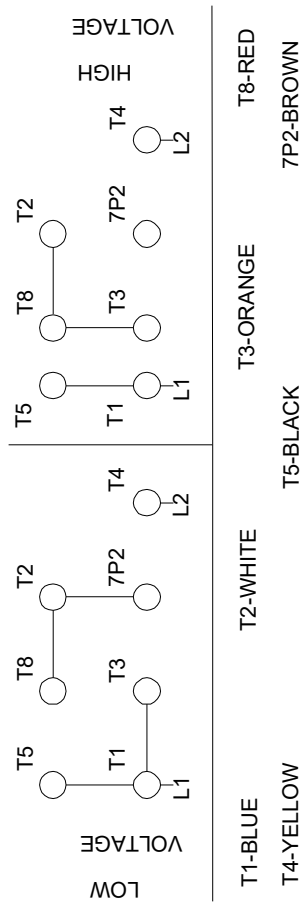
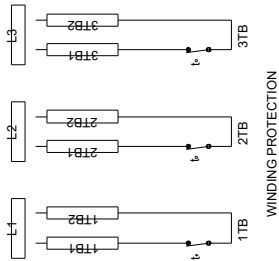
Note! All units are in [in] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.



Company name:
Created by:
Phone:

Date: 3/22/2021

99916299 CR 3-8 A-FGJ-A-V-HQQV 60 Hz



All units are [in] unless otherwise presented.