

Submittal Data

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

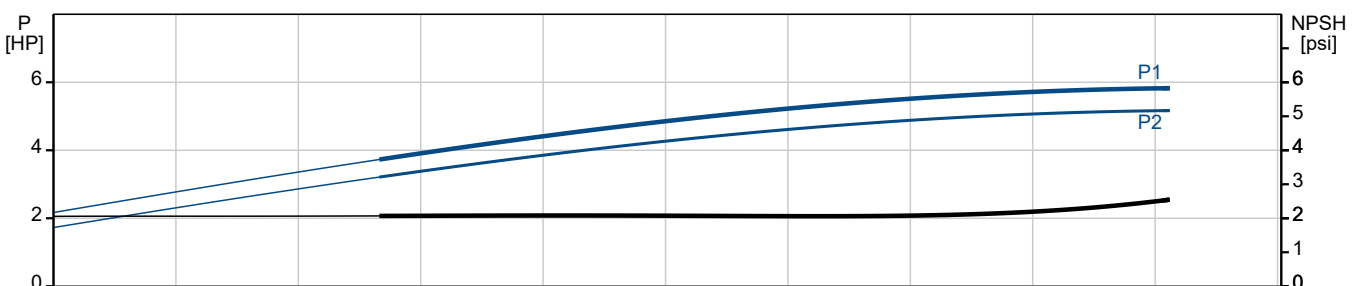
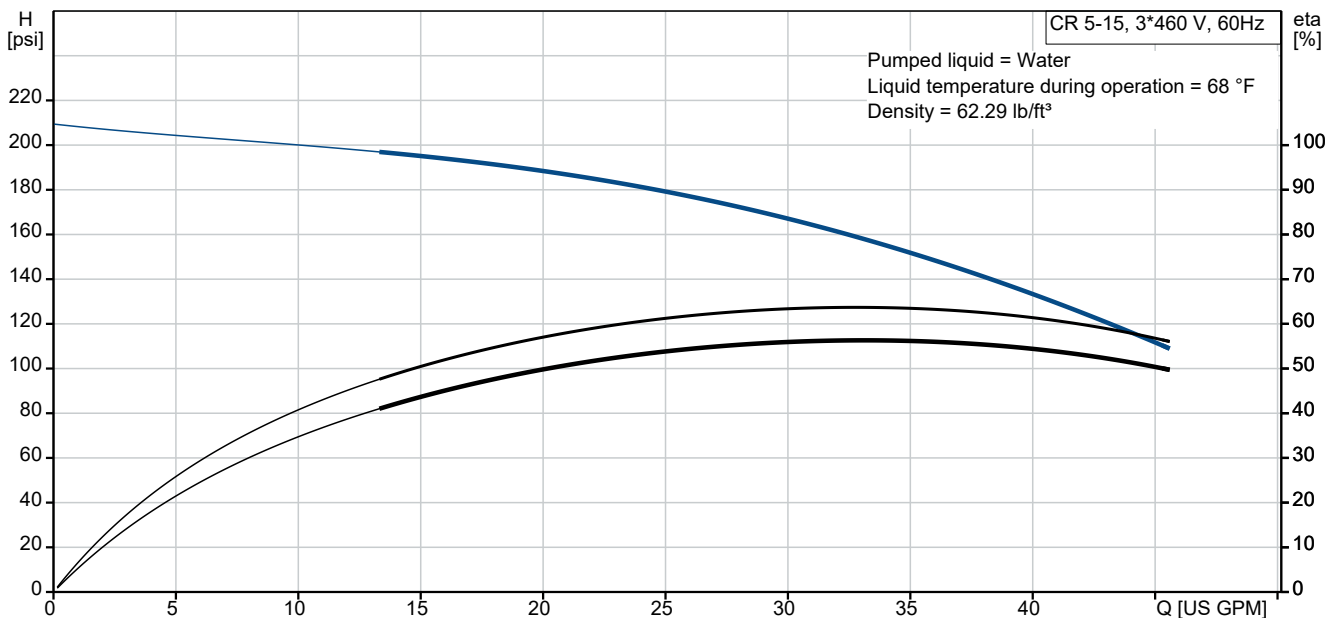


CR 5-15 K-FGJ-A-E-HQQE

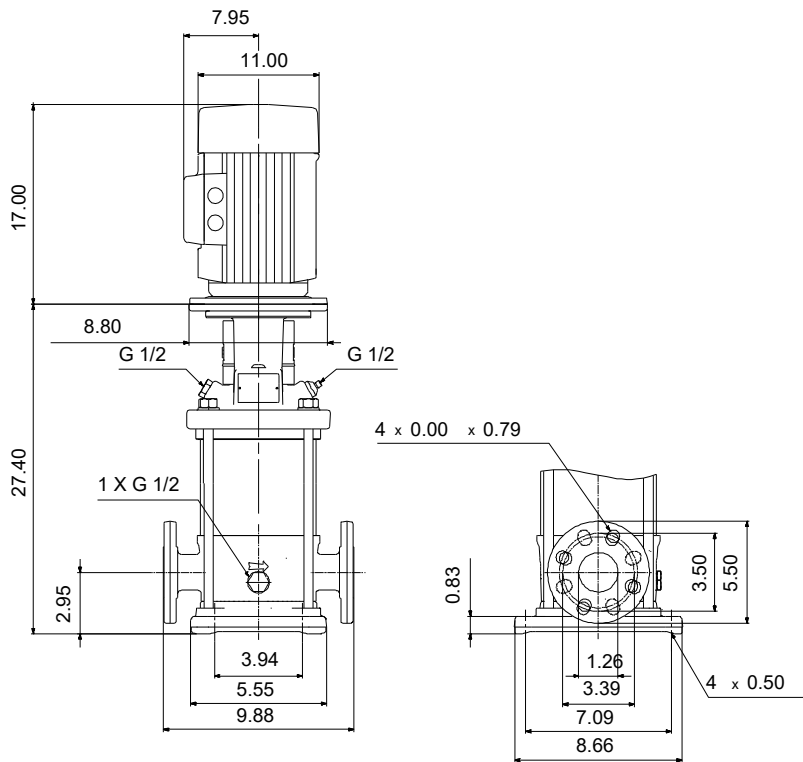
Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

Note! Product picture may differ from actual product

Conditions of Service		Pump Data		Motor Data	
Liquid:	Water	Max pressure at stated temp:	363 psi / 250 °F	Rated power - P2:	7.5 HP
Temperature:	68 °F	Liquid temperature range:	-4 .. 248 °F	Rated voltage:	230/460 V
Specific Gravity:	1.000	Maximum ambient temperature:	104 °F	Mains frequency:	60 Hz
		Shaft seal:	HQQE	Enclosure class:	IP55
		Product number:	99968283	Insulation class:	F
				Motor protection:	NONE
				Motor type:	WEG
				Eta 1/1:	89.5 %



Submittal Data



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: E

Qty. Description

1 CR 5-15 K-FGJ-A-E-HQQE



Product No.: [99968283](#)

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 special "Low NPSH" first-stage design reduces the pump's NPSHr value.

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.

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

Further product details

Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process.

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.

An integral part of the process is a pretreatment.

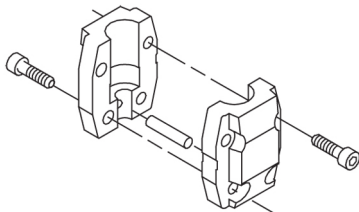
The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

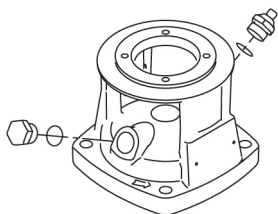
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

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.



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.



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.

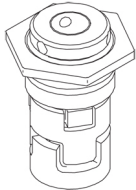
Due to the balancing, this seal type is suitable for high-pressure applications.

Qty. Description

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

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

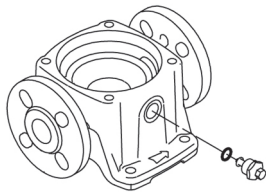
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.
 Secondary seal material: EPDM (ethylene-propylene rubber)
 EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as premium efficiency in accordance with EISA2007.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

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

Technical:
 Pump speed on which pump data are based: 3461 rpm
 Rated flow: 30.4 US GPM
 Rated head: 159.6 psi
 Actual impeller diameter: 2.88 in
 Pump orientation: Vertical

Qty.	Description
1	<p>Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals: CURUS Curve tolerance: ISO9906:2012 3B</p> <p>Materials: 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>Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 250 °F 363 psi / -4 °F</p> <p>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: 213TC</p> <p>Electrical data: Motor standard: NEMA Motor type: WEG Rated power - P2: 7.5 HP Power (P2) required by pump: 7.5 HP Mains frequency: 60 Hz Rated voltage: 3 x 230/460 V Service factor: 1.15 Rated current: 17.3/8.67 A Starting current: 760 % Cos phi - power factor: 0.89 Rated speed: 3530 rpm IE efficiency: IE3 89,5% IE Efficiency class: IE3 / NEMA Premium Motor efficiency at full load: 89.5 % Motor efficiency at 3/4 load: 88.5 % Motor efficiency at 1/2 load: 87.5 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99882381</p> <p>Controls: Frequency converter: None</p> <p>Others: DOE Pump Energy Index CL: 0.94 Net weight: 210 lb Gross weight: 227 lb Shipping volume: 13.1 ft³ Country of origin: US Custom tariff no.: 8413.70.2040</p>



Company name:

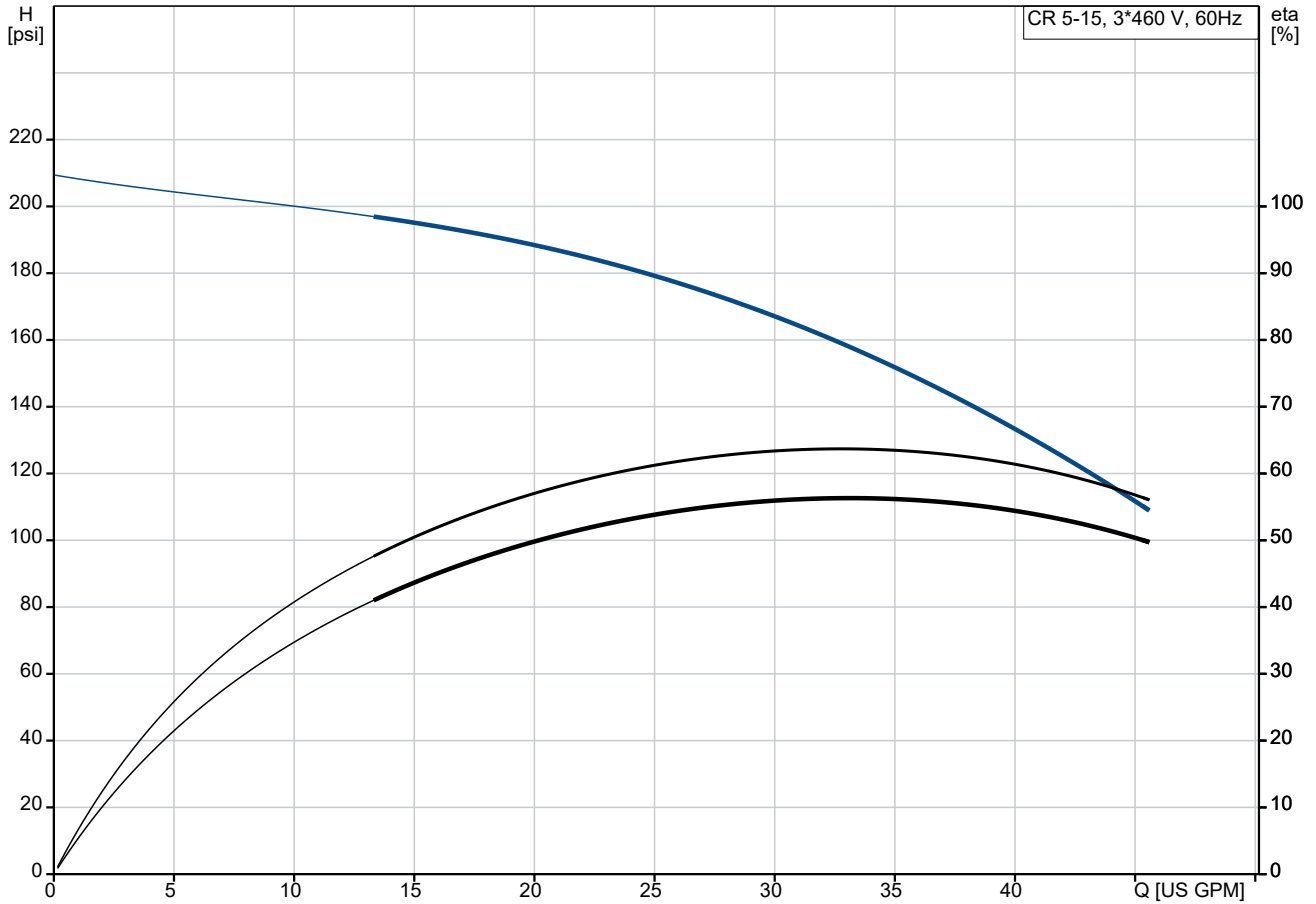
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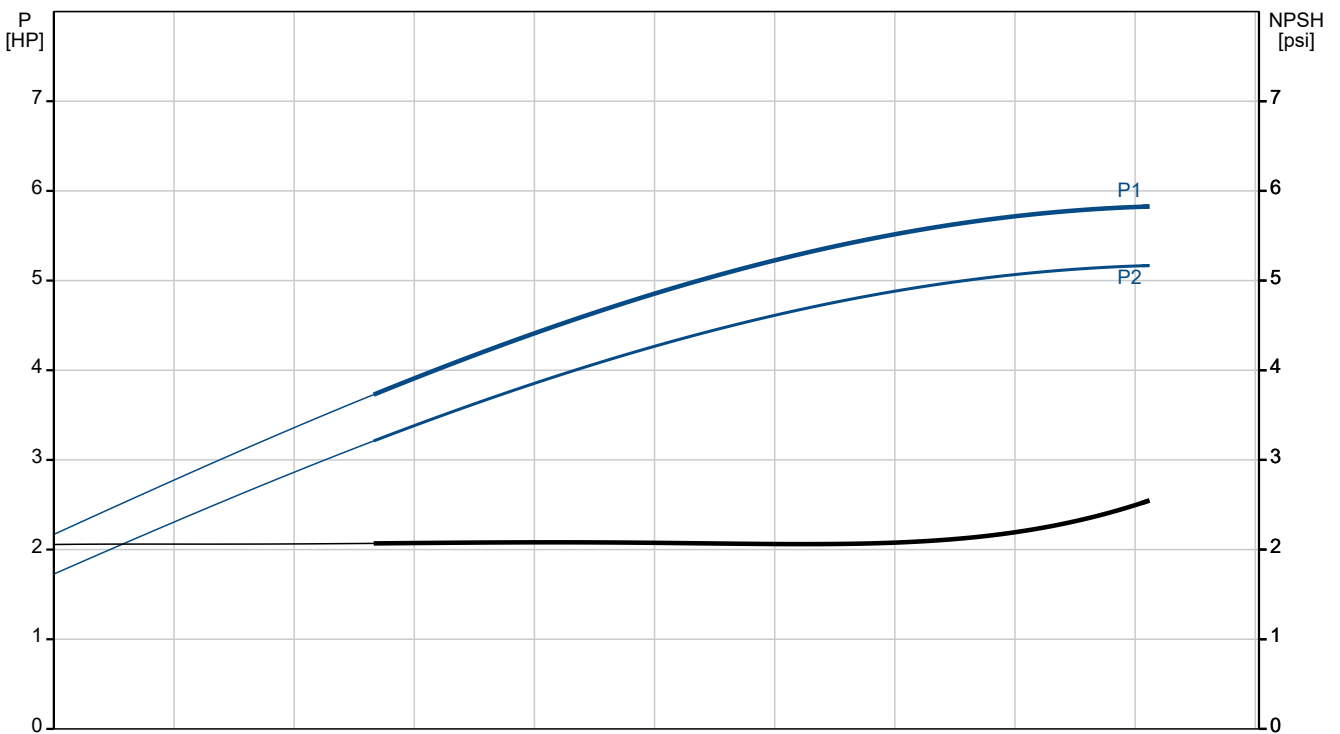
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25/04/2024

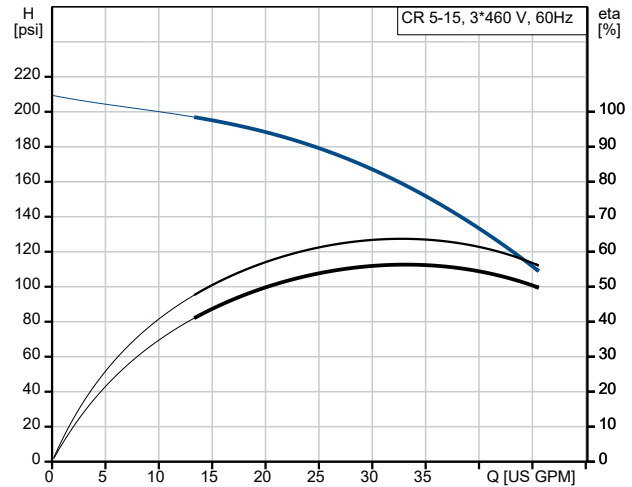
99968283 CR 5-15 K-FGJ-A-E-HQQE 60 Hz



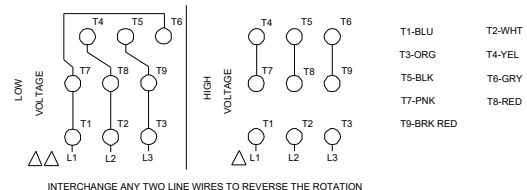
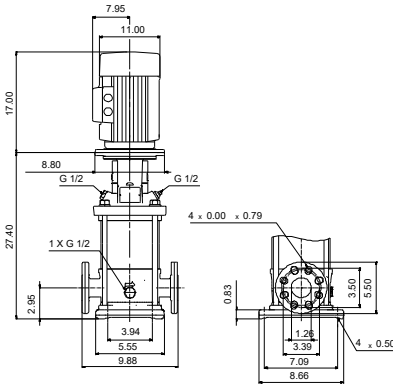
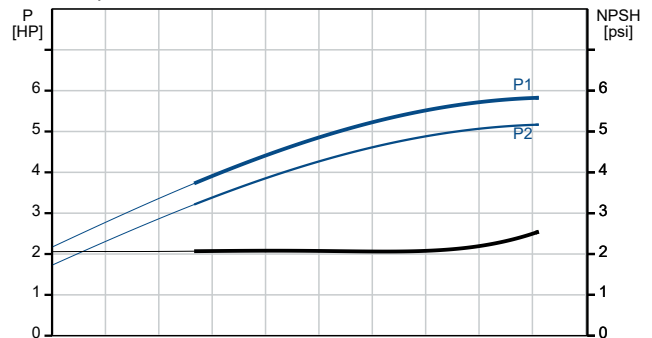
Pumped liquid = Water
Liquid temperature during operation = 68 °F
Density = 62.29 lb/ft³



Description	Value
General information:	
Product name:	CR 5-15 K-FGJ-A-E-HQQE
Product No:	99968283
EAN number:	5715114888806
Technical:	
Pump speed on which pump data are based:	3461 rpm
Rated flow:	30.4 US GPM
Rated head:	159.6 psi
Maximum head:	209.7 psi
Actual impeller diameter:	2.88 in
Stages:	15
Impellers:	15
Number of reduced-diameter impellers:	0
Low NPSH:	Y
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CURUS
Curve tolerance:	ISO9906:2012 3B
Pump version:	K
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:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	104 °F
Maximum operating pressure:	362.59 psi
Max pressure at stated temp:	363 psi / 250 °F
Max pressure at stated temp:	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:	213TC
Connect code:	FGJ
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Selected liquid temperature:	68 °F
Density:	62.29 lb/ft ³
Electrical data:	
Motor standard:	NEMA
Motor type:	WEG
Rated power - P2:	7.5 HP
Power (P2) required by pump:	7.5 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 230/460 V



Pumped liquid = Water
Liquid temperature during operation = 68 °F
Density = 62.29 lb/ft³





Company name:

Created by:

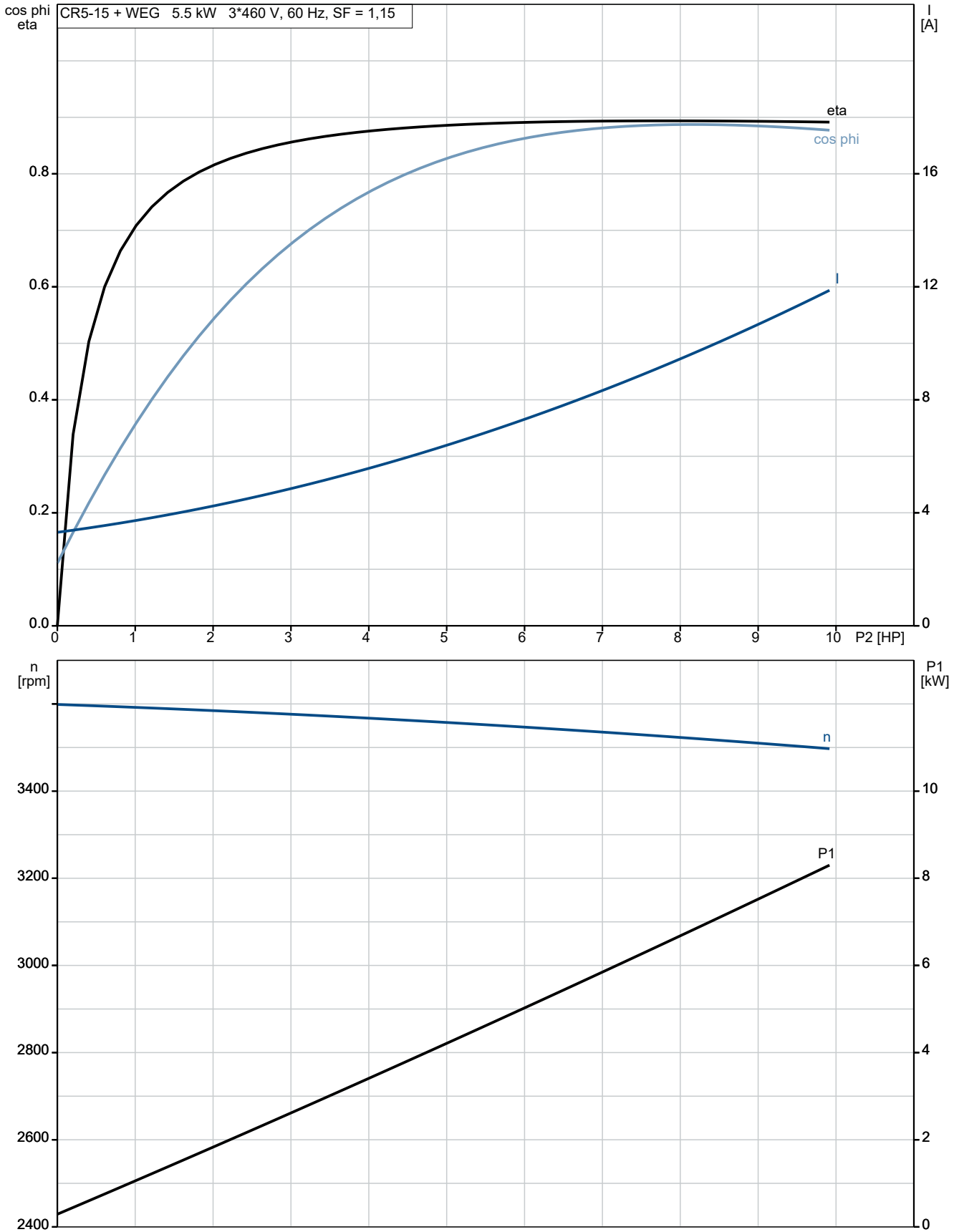
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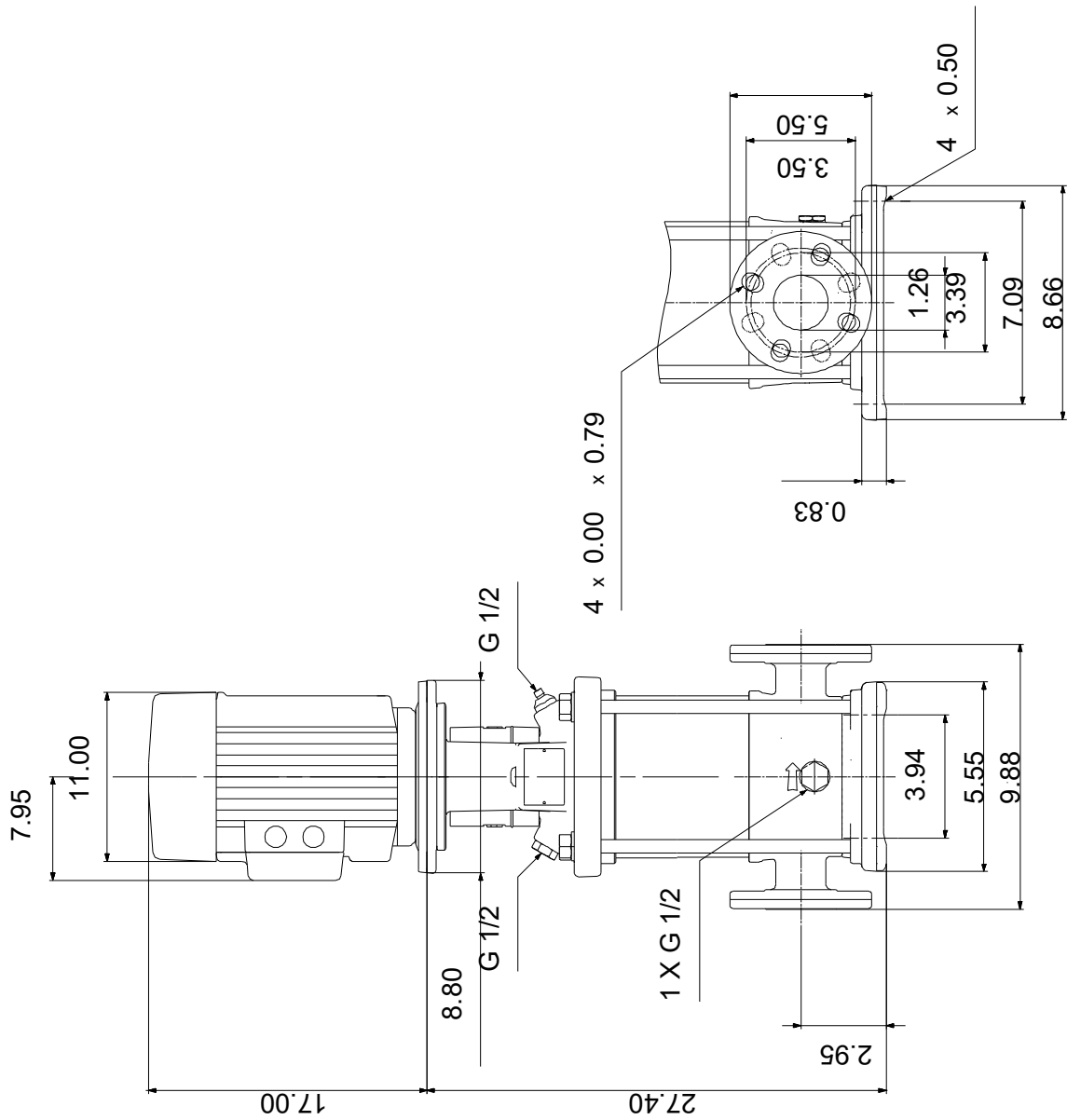
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Description	Value
Service factor:	1.15
Rated current:	17.3/8.67 A
Starting current:	760 %
Full load SF current:	19.9/9.97 A
Cos phi - power factor:	0.89
Rated speed:	3530 rpm
IE efficiency:	IE3 89,5%
IE Efficiency class:	IE3 / NEMA Premium
Motor efficiency at full load:	89.5 %
Motor efficiency at 3/4 load:	88.5 %
Motor efficiency at 1/2 load:	87.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	99882381
Controls:	
Frequency converter:	None
Others:	
DOE Pump Energy Index CL:	0.94
Net weight:	210 lb
Gross weight:	227 lb
Shipping volume:	13.1 ft ³
Country of origin:	US
Custom tariff no.:	8413.70.2040

99968283 CR 5-15 K-FGJ-A-E-HQQE 60 Hz

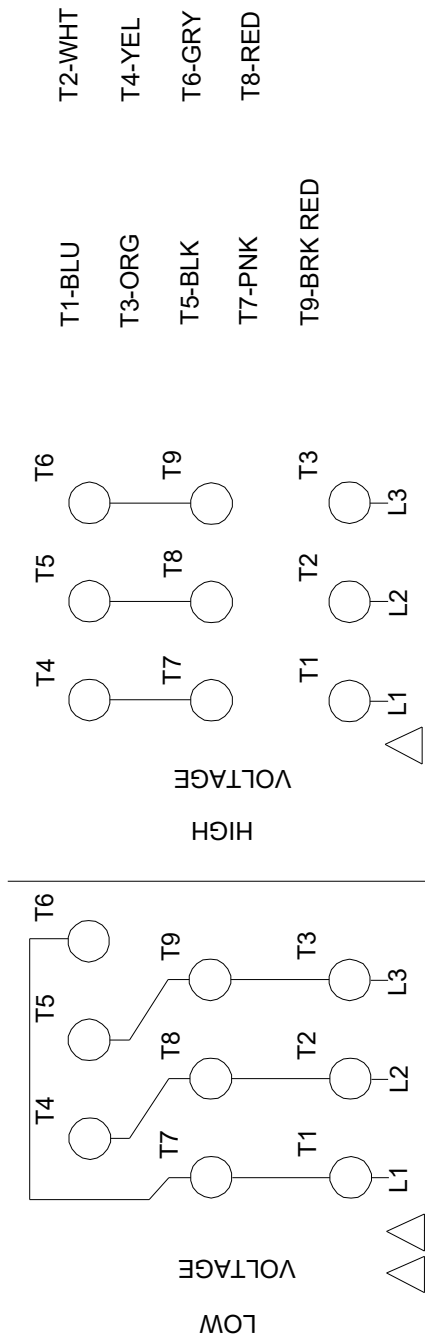


99968283 CR 5-15 K-FGJ-A-E-HQQE 60 Hz



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

99968283 CR 5-15 K-FGJ-A-E-HQQE 60 Hz



INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Note! All units are in [in] unless others are stated.