

Date: 4/15/2019

Count | Description

CRN 155-4-1A-P-A-E-HQQE



Product photo could vary from the actual product

Product No.: 99505331

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. A built-in thrust-handling device absorbs hydraulic axial forces which enables the use of a standard motor.

The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Wear parts in the shaft seal are available as service kits and can be replaced without having to renew the complete shaft seal. Power transmission is via a rigid split coupling. Pipe connection is via PJE (Victaulic®) couplings.

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

Further product details

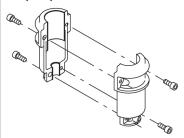
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An 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 long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



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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: EPDM (ethylene-propylene rubber)

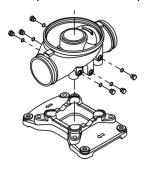
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 PEEK neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate cast-iron base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



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 has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.



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Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -40 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Rated pump speed: 3566 rpm
Rated flow: 820 US gpm
Rated head: 480.7 ft
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408

ASTM A351 CF8M

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: WC/WC
Support bearing: Graflon
Thrust handling device: SiC/WC

Material certified according to: European standards

Installation:

Maximum ambient temperature: 122 °F Maximum operating pressure: 580.15 psi

Max pressure at stated temperature: 363 psi / 250 °F

580.15 / 176 psi / °F

Type of connection: PJE
Size of suction port: 6 inch
Size of outlet port: 6 inch
Pressure rating for pipe connection: 1000 psi
Flange size for motor: 444TSD

Electrical data:

Motor standard: NEMA Motor type: Baldor

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 125 HP
Power (P2) required by pump: 125 HP
Main frequency: 60 Hz
Rated voltage: 3 x 460 V
Service factor: 1.15
Rated current: 137 A



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Cos phi - power factor: 0.90
Rated speed: 3565 rpm
IE efficiency: IE3 95.4%

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor Number: 99038981

Others:

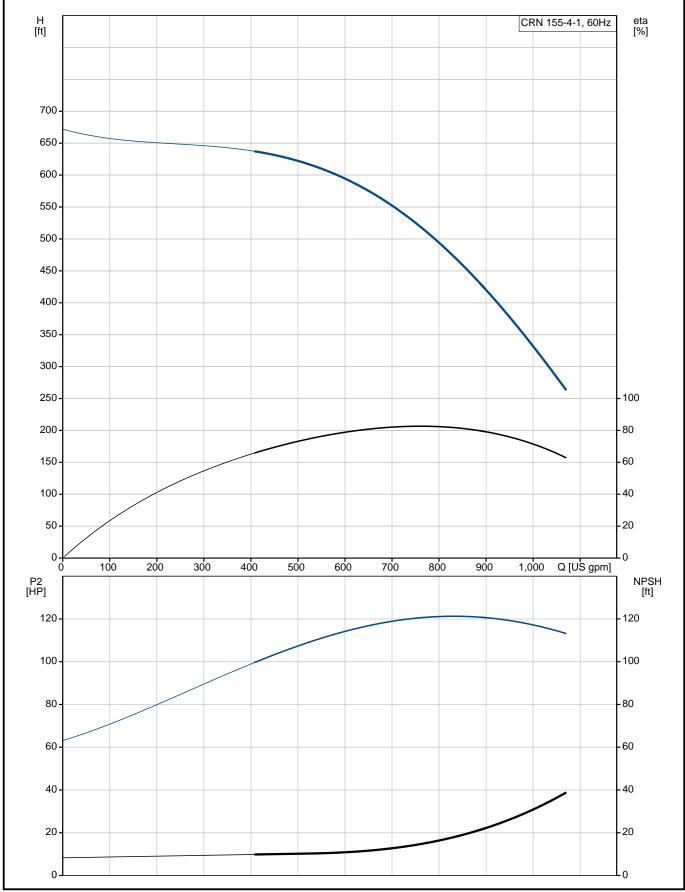
Net weight: 2340 lb Gross weight: 2820 lb Shipping volume: 138 ft³ Thrust handling device: Y

Approvals: NSF/ANSI 61, NSF/ANSI 372



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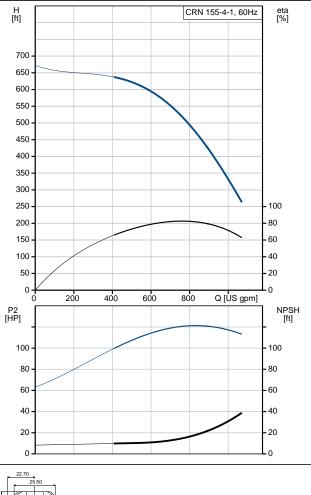
99505331 CRN 155-4-1A-P-A-E-HQQE 60 Hz

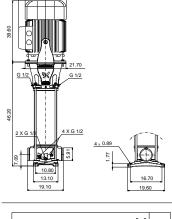


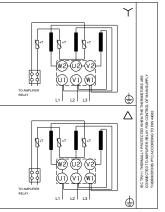


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Description Value General information: CRN Product name: CRN 155-4-1A-P-A-E-HQCE Product No.: 99505331 EAN: 5713830187302 Technical: 3566 rpm Rated flow: 820 US gpm Rated head: 480.7 ft Head max: 671.9 ft Stages: 4 Impellers: 4 A Umber of reduced-diameter impellers: 1 Low NPSH: N Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Curve tolerance: ISO9906:2012 3B Pump version: A Model: A Cooling: TEFC Materials: Base: Base: Stainless steel EN 1.4408 ASTM A351 CF8M Impeller: Stainless steel EN 1.4401 AISI 316 Material code: A Code for rubber: E <	-	WI
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Support bearing: Graflon Thrust handling device: SiC/WC Material certified according to: European standards Installation: Maximum ambient temperature: 122 °F Maximum operating pressure: 580.15 psi Max pressure at stated temperature: 363 psi / 250 °F 580.15 / 176 psi / °F Type of connection: PJE Size of suction port: 6 inch Size of outlet port: 6 inch Pressure rating for pipe connection: 1000 psi Flange size for motor: 444TSD Connect code: P Liquid: Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Main frequency: 60 Hz		WC/WC
Thrust handling device: Material certified according to: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temperature: Size of connection: Size of suction port: Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Motor standard: Motor type: Rated power - P2: Power (P2) required by pump: 122 °F European standards European standards 122 °F 80.15 psi 124 o°F 81.000 psi		Graflon
Material certified according to: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temperature: Size of connection: Size of suction port: Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: Pumped liquid: Liquid temperature range: Selected liquid temperature: Motor standard: Motor type: Rated power - P2: Pumped liquied by pump: Maximum ambient temperature: 122 °F 880.15 psi 125 F 880.15 psi 981.76 psi / °F 580.15 / 176 psi / °F 6 inch 9000 psi 444TSD Connect code: P Liquid: Water Liquid: Selected liquid: Water Liquid temperature range: 40 248 °F Selected liquid temperature: 88 °F Density: Baldor NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz		SiC/WC
Maximum ambient temperature: 122 °F Maximum operating pressure: 580.15 psi Max pressure at stated temperature: 363 psi / 250 °F 580.15 / 176 psi / °F Type of connection: PJE Size of suction port: 6 inch Size of outlet port: 6 inch Pressure rating for pipe connection: 1000 psi Flange size for motor: 444TSD Connect code: P Liquid: Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	_	European standards
Maximum operating pressure: Max pressure at stated temperature: 363 psi / 250 °F 580.15 / 176 psi / °F Type of connection: PJE Size of suction port: 6 inch Size of outlet port: Pressure rating for pipe connection: 1000 psi Flange size for motor: 444TSD Connect code: P Liquid: Pumped liquid: Uiquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Installation:	
Max pressure at stated temperature: 363 psi / 250 °F 580.15 / 176 psi / °F Type of connection: PJE Size of suction port: 6 inch Size of outlet port: 1000 psi Pressure rating for pipe connection: 1000 psi Flange size for motor: 444TSD Connect code: P Liquid: Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Maximum ambient temperature:	122 °F
Type of connection: PJE Size of suction port: Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: Pumped liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Baldor Rete Density: Rete Density: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: Size of inch S	Maximum operating pressure:	580.15 psi
Type of connection: Size of suction port: Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Pumped liquid temperature: NEMA NeMA Premium / IE3 60Hz Rated power (P2) required by pump: 125 HP Main frequency: 6 inch 6	Max pressure at stated temperature:	363 psi / 250 °F
Size of suction port: Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: 6 inch 6		580.15 / 176 psi / °F
Size of outlet port: Pressure rating for pipe connection: Flange size for motor: Connect code: P Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: 1000 psi H44TSD Water 444TSD P 66 inch P 66 inch 1000 psi 66 inch 66 inch P 66 inch P 66 inch P 844TSD 66 e 68 °F 62.29 lb/ft³ Fleetrical data: NEMA NEMA NEMA NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Main frequency: 60 Hz	Type of connection:	PJE
Pressure rating for pipe connection: 1000 psi Flange size for motor: 444TSD Connect code: P Liquid: Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Size of suction port:	6 inch
Flange size for motor: Connect code: P Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: 444TSD P Water 444TSD A44TSD	Size of outlet port:	6 inch
Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Pade water Water Uwater Water Value Water C-40 248 °F C-29 lb/ft³ E-2.29 lb/ft³ Belectrical data: NEMA NEMA NEMA Premium / IE3 60Hz C-25 HP C-25 HP Main frequency: Main frequency: Water C-40 248 °F C-20 lb/ft³ Electrical data: Motor standard: NEMA NEMA Premium / IE3 60Hz C-40 248 °F C-20 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz C-40 248 °F C-20 lb/ft³ C-20 lb/ft	Pressure rating for pipe connection:	1000 psi
Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Water Water Uater Value Valu	Flange size for motor:	444TSD
Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Connect code:	Р
Liquid temperature range: Selected liquid temperature: Density: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: Motor type: Baldor IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: -40 248 °F 88 °F 89	Liquid:	
Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Pumped liquid:	
Density: 62.29 lb/ft³ Electrical data: Motor standard: NEMA Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Liquid temperature range:	-40 248 °F
Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: NEMA NEMA NEMA Premium / IE3 60Hz 125 HP 60 Hz	Selected liquid temperature:	68 °F
Motor standard: Motor type: Baldor IE Efficiency class: NEMA Premium / IE3 60Hz Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz	Density:	62.29 lb/ft ³
Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: Baldor NEMA Premium / IE3 60Hz 125 HP 125 HP 60 Hz		
IE Efficiency class: Rated power - P2: Power (P2) required by pump: Main frequency: NEMA Premium / IE3 60Hz 125 HP 125 HP 60 Hz		
Rated power - P2: 125 HP Power (P2) required by pump: 125 HP Main frequency: 60 Hz		Baldor
Power (P2) required by pump: 125 HP Main frequency: 60 Hz	IE Efficiency class:	
Main frequency: 60 Hz	Rated power - P2:	125 HP
	Power (P2) required by pump:	125 HP
Rated voltage: 3 x 460 V		60 Hz
	Rated voltage:	3 x 460 V









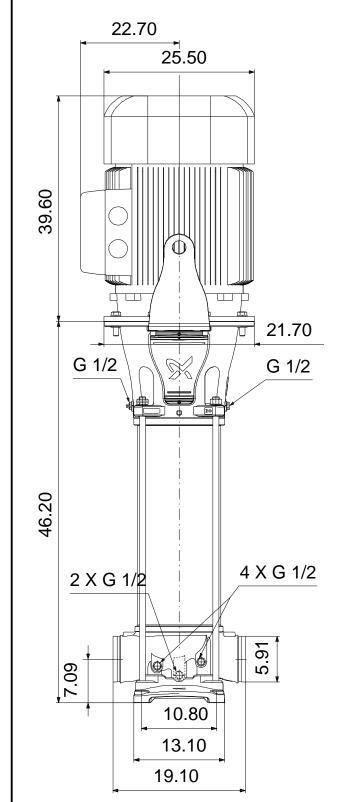
Date: 4/15/2019

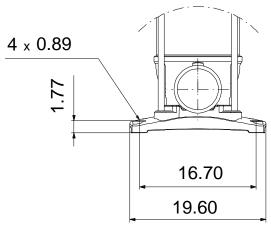
Description	Value
Service factor:	1.15
Rated current:	137 A
Load current:	158/79 A
Cos phi - power factor:	0.90
Rated speed:	3565 rpm
IE efficiency:	IE3 95.4%
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protection:	PTC
Motor Number:	99038981
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	2340 lb
Gross weight:	2820 lb
Shipping volume:	138 ft ³
Thrust handling device:	Υ
Approvals:	NSF/ANSI 61, NSF/ANSI 372



Date: 4/15/2019

99505331 CRN 155-4-1A-P-A-E-HQQE 60 Hz



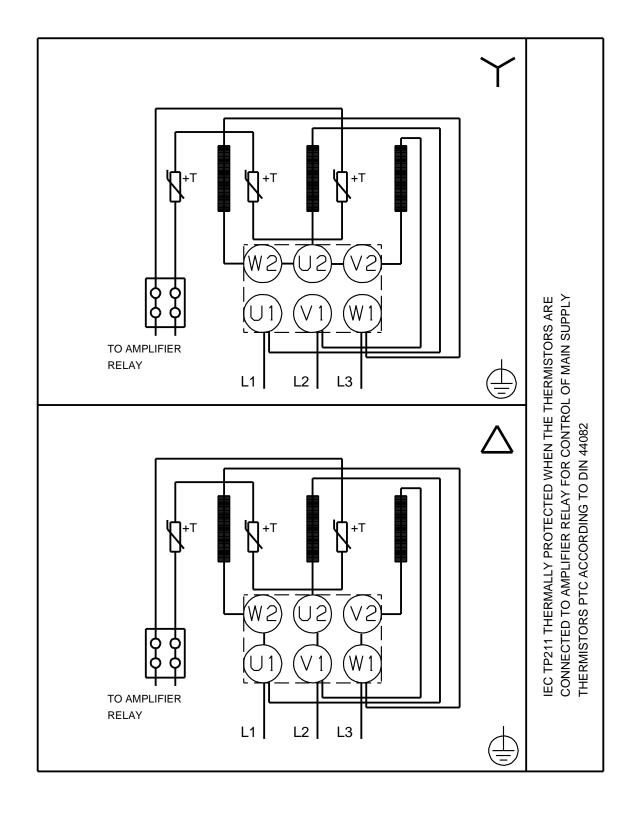


Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 4/15/2019

99505331 CRN 155-4-1A-P-A-E-HQQE 60 Hz



All units are [in] unless otherwise presented.