## **GRUNDFOS**

## Submittal Data

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

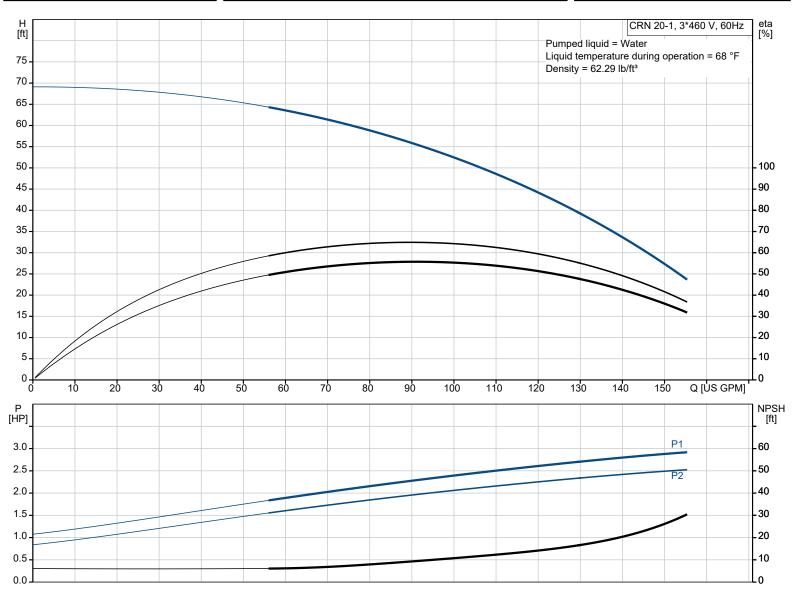


### CRN 20-1 A-FGJ-A-E-HQQE

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401)

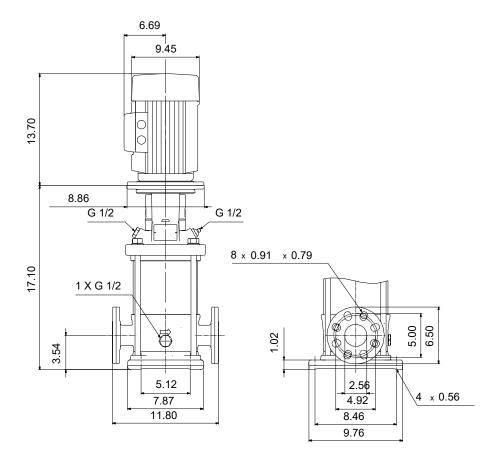
Note! Product picture may differ from actual product

Conditions of Service		Pump Data	Motor Data		
Liquid: Temperature: Specific Gravity:	Water 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	363 psi / 250 °F -4 248 °F 104 °F HQQE 99917887	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	3 HP 230/460 V 60 Hz IP55 F NONE WEG 86.5 %



## Submittal Data





#### Materials:

Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	А
Code for rubber:	E



Date:

20/01/2023

#### Qty. | Description

1 CRN 20-1 A-FGJ-A-E-HQQE



Product No.: 99917887

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 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.

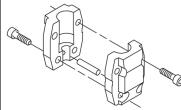
The entire process consists of these elements:

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

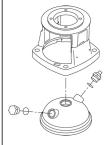
The colour code for the finished product is NCS 9000/RAL 9005.

#### 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 and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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.

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.



Date:

20/01/2023

#### Qty. | Description

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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 pump has a stainless steel base mounted on a separate base plate.

This base and base plate are kept in position by the tension of the staybolts which hold the pump together.

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.

The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

#### 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.

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: Liquid temperature range: Selected liquid temperature: Density:	Water -4 248 °F 68 °F 62.29 lb/ft³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals: Approvals for drinking water: Curve tolerance:	are based: 3461 rpm 111 US GPM 49.54 ft 4.13 in Vertical Single HQQE CURUS NSF/ANSI 61 ISO9906:2012 3B
Materials:	
Base:	Stainless steel EN 1.4408
Impeller:	AISI 316 Stainless steel EN 1.4401 AISI 316
Bearing:	SIC
Installation: t max amb: Maximum operating pressure: Max pressure at stated temp: Type of connection:	104 °F 362.59 psi 363 psi / 250 °F 363 psi / -4 °F DIN / ANSI / JIS
Size of inlet connection: Size of outlet connection: Pressure rating for connection:	DN 50 DN 50 PN 25



Date:

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Qty. | Description

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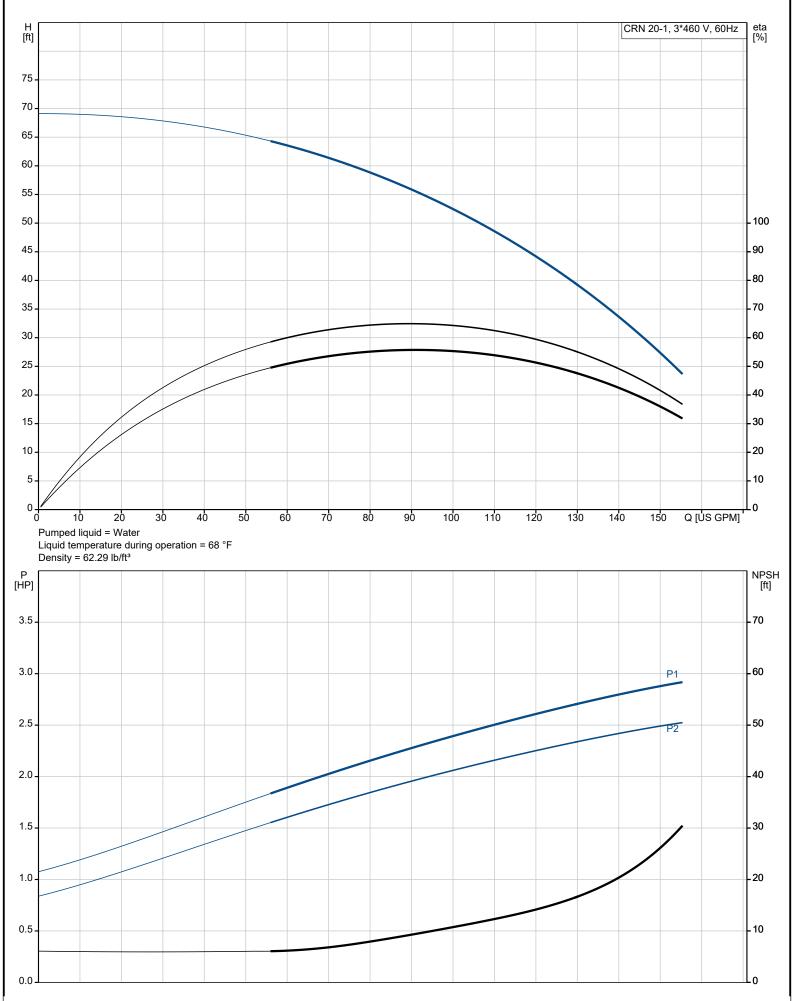
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	Flange rating inlet:	300 lb
	Flange size for motor:	182TC
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	WEG
	IE Efficiency class:	IE3 / NEMA Premium
	Rated power - P2:	3 HP
	Power (P2) required by pump:	3 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 230/460 V
	Service factor:	1.15
	Rated current:	7.34/3.67 A
	Starting current:	880 %
	Cos phi - power factor:	0.87
	Rated speed:	3515 rpm
	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 %
	Number of poles:	2
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99883243
	Controlo	
	Controls:	
	Frequency converter:	NONE
	Others:	
	DOE Pump Energy Index CL:	0.91
	Net weight:	154 lb
	Gross weight:	172 lb
	Shipping volume:	8.26 ft <sup>3</sup>
	Country of origin:	US
	Custom tariff no.:	8413.70.2040
		0.10.10.2040



20/01/2023

Date:

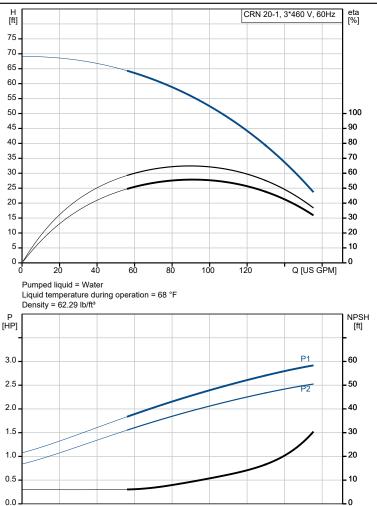
## 99917887 CRN 20-1 A-FGJ-A-E-HQQE 60 Hz

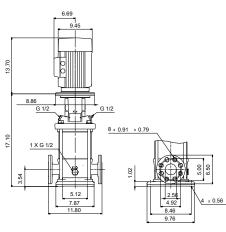


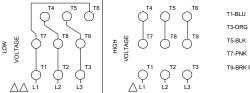
# **GRUNDFOS**

#### Company name: Created by: Phone:

Indiped liquid.WaterLiquid temperature range:-4248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAMotor standard:NEMAMotor type:WEGIE Efficiency class:IE3 / NEMA PremiumRated power - P2:3 HPPower (P2) required by pump:3 HPMains frequency:60 HzRated voltage:3 x 230/460 VService factor:1.15Rated current:7.34/3.67 AStarting current:880 %Full load SF current:8.44/4.22 ACos phi - power factor:0.87			Dat	e:		20/0	1/2023	3	
Product Name: Product Name: Produc	Description	Value	H [ft]						С
Penduat No: 5715114127158 EAN number: 5715114127158 Tochnical: 49.54 ft Maximum head: 49.54 ft Maximum head: 49.54 ft Maximum head: 66.33 ft Actual impeller: 4,13 h Stages: 2 Impeller: 1 Number of reduced-diameter impellers: 0 Low MPSH: NN Pump orientation: Vetical Shaft seal: HOQE Approvals: CURVS Deprovals for drinking water: NSFANSI 61 Curve tolerance: ISO9006.2012 3B Approvals: CURVS Approvals: A Cooling: CC 411 Materials: Base: Stainless steel Base: EN 14406 Impeller: Bisiness steel Base: EN 14406 Base: EN 14406 Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 14406 Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 14407 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 1400 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 1400 Material code: A Code of rubber: E Beaning: Bisiness steel Base: EN 1400 Material code: C Connect code: E Enderstael Base: E Sole of Histon connection: E Sole of rubber: E Enderstael Base: E Sole of Rubber: E Enderstael Base: E Sole of Rubber: E Enderst	General information:								
EAN number: 5715114127158 For the form of	Product name:	CRN 20-1 A-FGJ-A-E-HQQE	70 -						
Technical: Technical: Pump speed on which pump data are based: 4461 rpm Rated flow: Rated f	Product No:		65 -						
Pump speed on which pump data are based: 2461 rpm Rated flow: Rated head: 49.54 ft 40 66.93 ft 31 in 50 Stages: 2 Actual impelient diameter: 4.13 in 50 Stages: 2 Number of reduced-diameter impellers: 0 Number of reduced-diameter impellers: 0 Code for shaft seal: HOGE Approvals for drinking water: NSF/ANSI 61 Approvals for drinking water: NSF/ANSI 61 Corver toterance: ISO906/2012 3B Pumper tetrained impellers: 0 Code for shaft seal: All 10 Impeller: ISI Stainless steel Impeller: DN 1.406 Essage of unter comparison of the F Maximum operating pressure: 825 pell Max pressure at stated temp: 383 pel / 25 °F Max pressure at stated temp: 383 pel / 26 °F Dessure at stated temp: 383 pel / 27 °F Max pressure at stated temp: 383 pel / 26 °F Dessure at stated temp: 383 pel / 27 °F Max pressure at stated temp: 383 pel / 27 °F Max pressure at stated temp: 383 pel / 27 °F Max pressure at stated temp: 383 pel / 28 °F Desnity: 62.29 lb/M <sup>2</sup> Electrical data: Motor standard: NEMA Motor standard: NEMA Motor type: VEG Eleftleoncy class: EE3 / NEMA Premium Rated power - P2: 3 HP Mains for upmetion: 1.15 Rated ovoltage: 3x 230/460 v Savino factor: 1.15 Rated current: 7.34/3.67 A Starting current test 80 % Full dod SF current test 84/42.22 A Cos ph - 0 were factor: 0.057	EAN number:	5715114127158	60 -				$\searrow$		
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Model: A Cooling: IC 411 Materials: Base: Stainless steel Base: EN 14408 Base: AISI 316 Impeller: Stainless steel Impeller: EN 14401 Impeller: EN 14401 Impeller: AISI 316 Material code: A Code for rubber: E Bearing: SIC Installation: T That are bi Max pressure at stated temp: 363 psi / 250 °F 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 unlet connection: DN 50 Pressure rating for connection: PN 25 Flange arting findet: 300 lb Flange size for motor: BSI Flange size for motor: PN 25 Flange size for motor: BSI Connect code: FGJ Liquid: Water Liquid temperature: 68 °F Density: 62 29 lb/t <sup>a</sup> Electrical data: Motor standard: NEMA Motor type: WEG It Efficiency class: ES / NEMA Premium Rated power - P2: 3 HP Power (P2) required by pump: 3 HP Amains fraquency: 60 Hz Rated vortage: 3 x 230/460 V Service factor: 1.15 Rated vortage: 3 x 230/460 V Service factor: 7.34/3.67 A Starting current: 7.34/3.67 A			[HP]						
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Rated current:7.34/3.67 AStarting current:880 %Full load SF current:8.44/4.22 ACos phi - power factor:0.87	Rated voltage:	3 x 230/460 V		$\bigtriangleup$	∆ L1 L2	L3	ΔĽ	T Y .1 L2	т L3
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Full load SF current:8.44/4.22 ACos phi - power factor:0.87	Rated current:	7.34/3.67 A							
Cos phi - power factor: 0.87	Starting current:	880 %							
		8.44/4.22 A							
Rated speed: 3515 rpm									
	Rated speed:	3515 rpm							
Efficiency: IE3 86,5%	Efficiency:	IE3 86,5%							







T2-WHT T4-YEL T6-GRY T8-RED T9-BRK RED



Date:

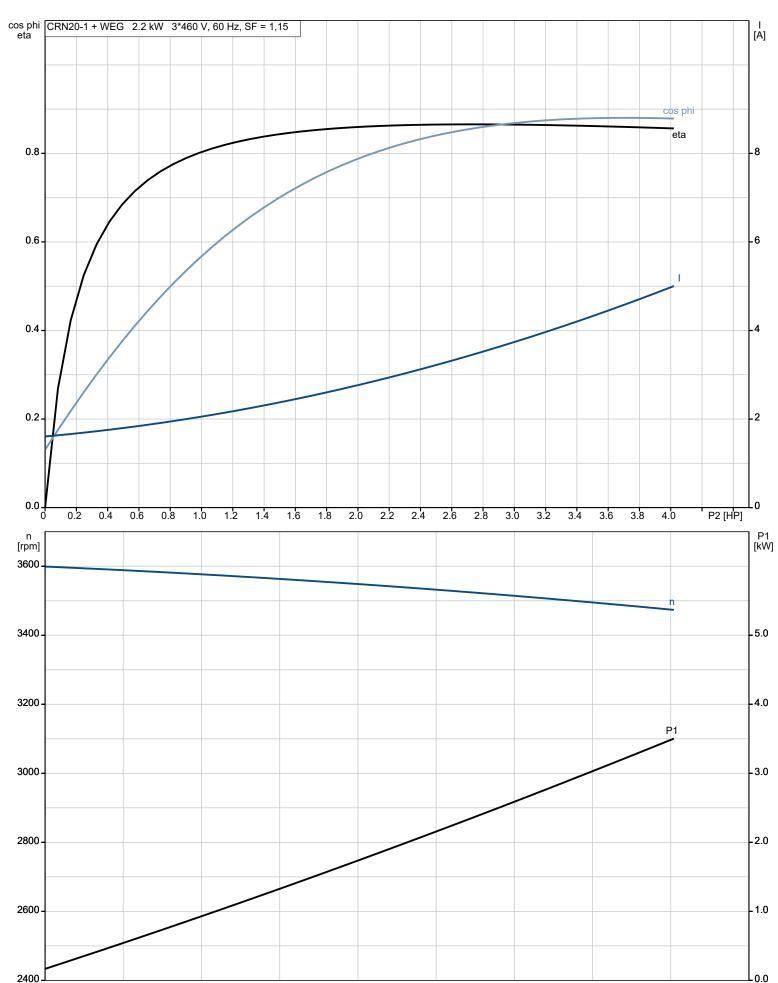
Description Value Motor efficiency at full load: 86.5 % Motor efficiency at 3/4 load: 86.5 % Motor efficiency at 1/2 load: 84 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: NONE Motor No: 99883243 Controls: Frequency converter: NONE Others: DOE Pump Energy Index CL: 0.91 154 lb Net weight: 172 lb Gross weight: Shipping volume: 8.26 ft<sup>3</sup> Country of origin: US Custom tariff no .: 8413.70.2040 20/01/2023



Date:

20/01/2023

## 99917887 CRN 20-1 A-FGJ-A-E-HQQE 60 Hz



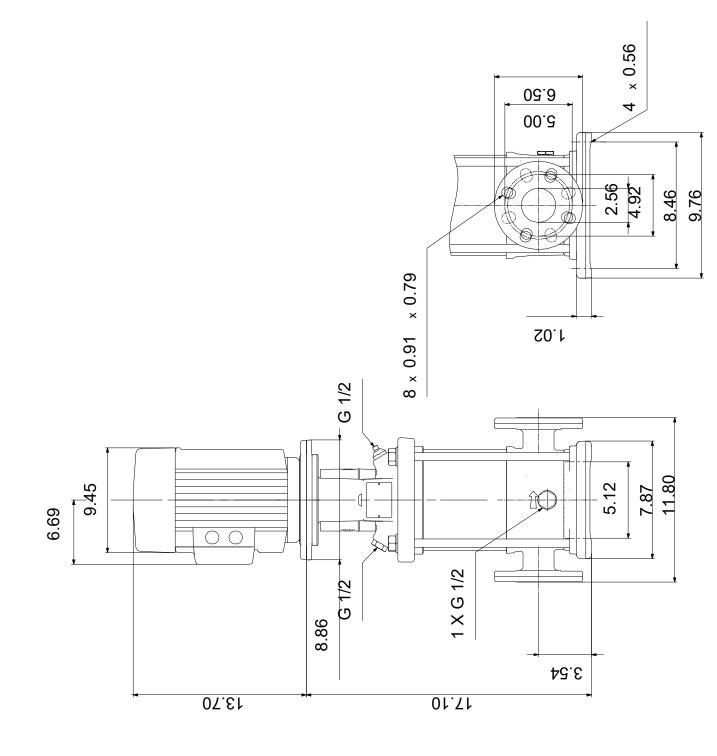
**GRUNDFOS** 

Company name: Created by: Phone:

Date:

20/01/2023





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



Date:

20/01/2023

## 99917887 CRN 20-1 A-FGJ-A-E-HQQE 60 Hz

