

Submittal Data

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



CRE 20-5 N-GJ-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

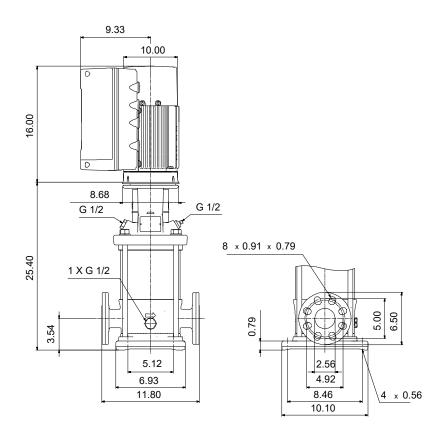
Note! Product picture may differ from actual product

Conditions of Service				Pump Data							Motor Data			
Liquid: Water Temperature: 68 °F Specific Gravity: 1.000		Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:				 : 1 +	232 psi 4 248 22 °F 1QQE 990764		Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:		4 cy: 6 s: IF s: F on: E	5 HP 40-480 V 0 Hz 255 LEC 60H 3.2 %		
H [ft]									Pumped li Liquid tem Density =	perature du		0-5, 3*500 V ion = 68 °F	eta [%]	
350 -	100 %												_	
300 -	90 %												_	
250 -	00.00									_			100	
200 -	80 %												- 80	
150 -	70 %											•	- 60	
100 -	60 %											•	40	
50 -													- 20	
	10 20	30 4	10 50	60	70 8	30 90	100	110	120	130 14	0 150 (נטs GPM]	⊥0 7 NPSH	
P [HP]									P1 (motor+frea	.converter)		[ft]	
12 - 10 -											P2		- 60 - 50	
8-													- 50	
6													- 30	
4													-20	

- 10 - 0

Submittal Data

GRUNDFOS

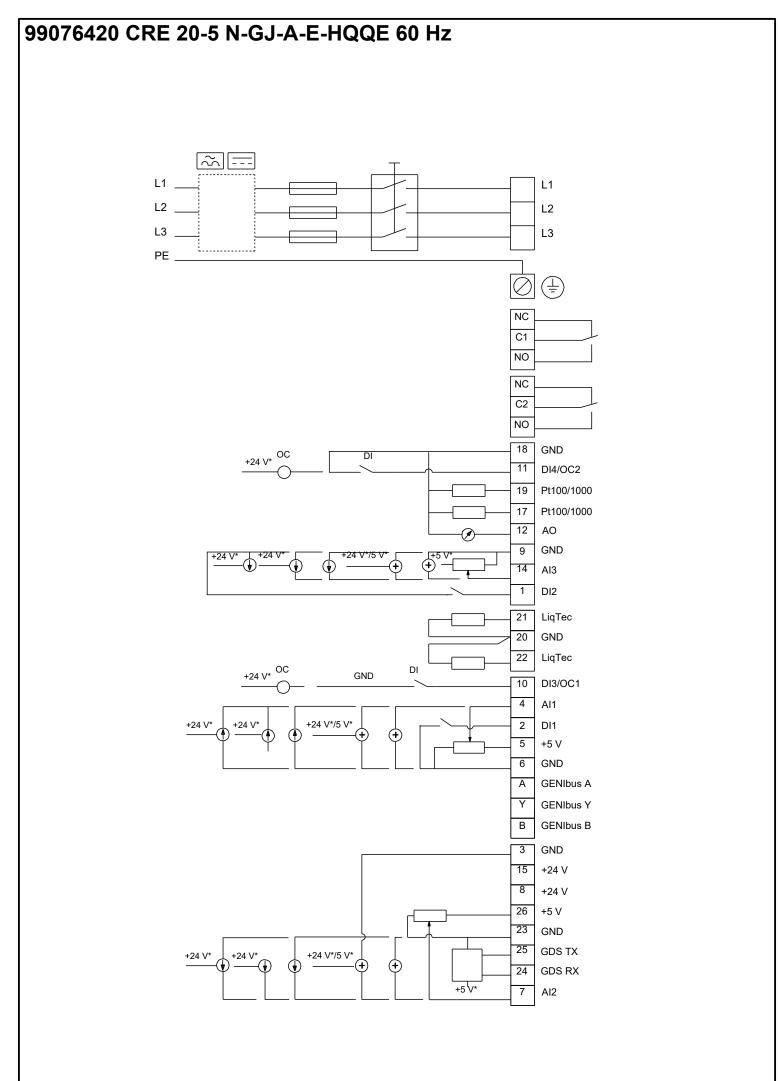


Materials:

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: А Code for rubber: Е

Qty.	Description							
-	•							
1	CRE 20-5 N-GJ-A-E-HQQE							
	62							
		Note! Product picture may differ from actual product						
	Product No.: 99076420							
	Vertical, multistage centrifugal p	ump 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 acces							
	service. Power transmission is v	ia a rigid split coupling. Pipe connection is via combined ANSI-JIS flanges.						
	The pump is fitted with a 3-phas	e, fan-cooled, permanent-magnet, synchronous motor.						
		as IE5 in accordance with IEC 60034-30-2.						
	The motor includes a frequency	converter and PI controller in the motor terminal box. This enables continuously variable control of						
	the motor speed, which again er	nables adaptation of the performance to a given requirement.						
	The operating panel on the moto	or terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.						
		d user-friendly interface to all functions.						
	The push-buttons are used to na	avigate through the menu structure to access pump and performance data on site and enable						
	setting of required setpoint as we	ell as setting of pump to "Min." or "Max." operation or to "Stop".						
	Communication with the pump is	s also possible by means of Grundfos GO Remote (accessory). The remote control enables further						
	consumption".	f a number of parameters such as "Actual value", "Speed", "Power input" and total "Power						
		he operating panel provides visual indication of pump status:						
		ning (rotating green indicator lights) or not running (permanently green indicator lights)						
	e e	unning (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)						
		ed (flashing red indicator lights).						
	and outputs are required:	of inputs and outputs enabling the motor to be used in advanced applications where many inputs						
	two dedicated digital input	te						
	 two dedicated digital inputs three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs 5 V voltage supply to potentiometer and sensor one analog output, 0-10 V, 0(4)-20 mA two configurable digital inputs or open-collector outputs two Pt100/Pt1000 inputs LiqTec, dry-running protection sensor input Grundfos Digital Sensor input and output 							
		 24 V voltage supply for sensors 						
	 two signal-relay outputs (
	GENIbus connection	· /						
	interface for Grundfos Cli	M fieldbus module.						
	Liquid:							
	Pumped liquid:	Water						
	Liquid temperature range:	-4 248 °F						
	Selected liquid temperature:	68 °F						
	Density:	62.29 lb/ft ³						
	Technical:							
	Pump speed on which pump dat	a are based: 3444 rpm						
	Rated flow:	111 US GPM						
	Rated head:	268.7 ft						
	Actual impeller diameter:	4.13 in						
	Pump orientation:	Vertical						
	Shaft seal arrangement:	Single						
	Code for shaft seal:	HQQE						
	Approvals:	CURUS						
	Approvals for drinking water:	NSF/ANSI 61						
	Curve tolerance:	ISO9906:2012 3B						

ty.	Description	
-	Materials:	
		Cast iron
	Base:	
		EN 1561 EN-GJL-200
		ASTM A48-25B
	Impeller:	Stainless steel
		EN 1.4301
		AISI 304
	Bearing:	SIC
	Doaring.	
	Installation:	
	t max amb:	122 °F
	Maximum operating pressure:	232.06 psi
	Max pressure at stated temp:	232 psi / 250 °F
		232 psi / -4 °F
	Type of connection:	ANSI / JIS
	Size of inlet connection:	DN 50
	Size of outlet connection:	DN 50
	Pressure rating for connection:	PN 25
		250 lb
	Flange rating inlet:	
	Flange size for motor:	254TC
	Electrical data:	
	Motor standard:	NEMA
	Motor type:	160H
	IE Efficiency class:	IE5
	Rated power - P2:	15 HP
	Power (P2) required by pump:	15 HP
	Mains frequency:	60 Hz
	Rated voltage:	3 x 440-480 V
	Service factor:	1.15
	Rated current:	17.9-16.6 A
	Cos phi - power factor:	0.92-0.91
	Rated speed:	360-4000 rpm
	Efficiency:	93.2%
	Motor efficiency at full load:	93.2 %
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No:	99256777
		99250777
	Controls:	
		Built-in
	Frequency converter:	
	Pressure sensor:	Y
	Others:	
	DOE Pump Energy Index VL:	0.41
	Net weight:	229 lb
	Gross weight:	315 lb
	Shipping volume:	13.1 ft ³
	1	



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