

Submittal Data

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

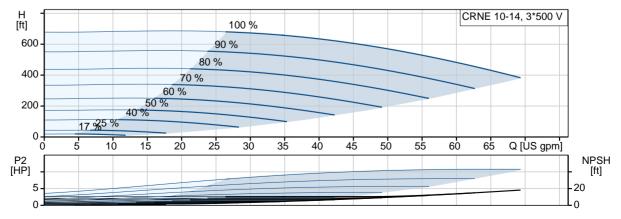


CRNE 10-14 N-FGJ-A-E-HQQE

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

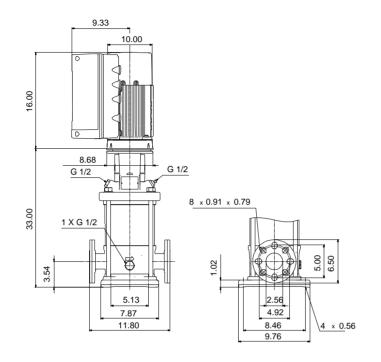
Product photo could vary from the actual product

Conditions	of Service	Pump Data		Motor Da	ita
Flow:		Max pressure at stated temperature:	363 psi / 250 °F	Rated power - P2:	15 HP
Head:		Liquid temperature range:	-4 248 °F	Rated voltage:	440-480 V
Efficiency:		Maximum ambient temperature:	122 °F	Main frequency:	60 Hz
Liquid:	Water	Approvals:	CURUS,NSF61	Enclosure class:	IP55
Temperature:	68 °F	Shaft seal:	HQQE	Insulation class:	F
NPSH required:		Product number:	99076391	Motor protection:	YES
Viscosity:				Motor type:	160H
Specific Gravity:				Motor_efficiency:	93.2 %



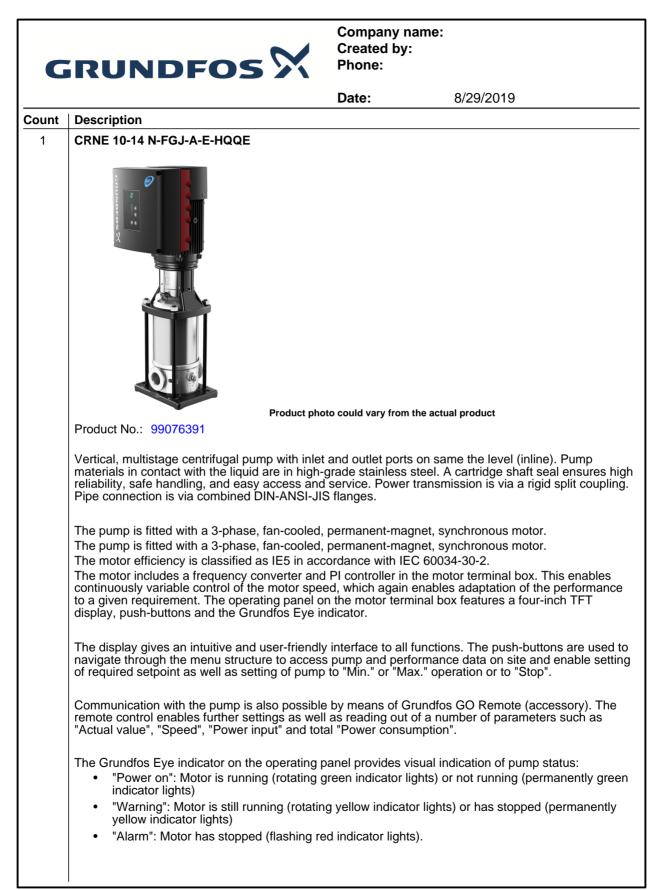
Submittal Data





Materials:

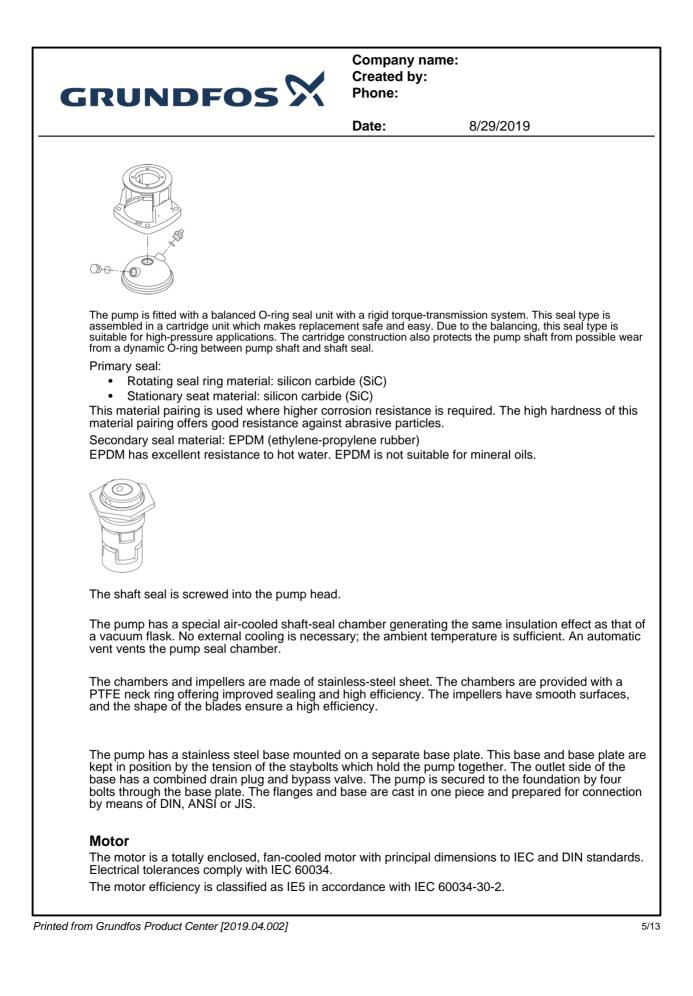
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	AISI 316
	EN 1.4401
Material code:	А
Code for rubber:	E





8/29/2019

Date: Count Description Further product details The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator. The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently vellow indicator lights) "Alarm": Motor has stopped (flashing red indicator lights). 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 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.



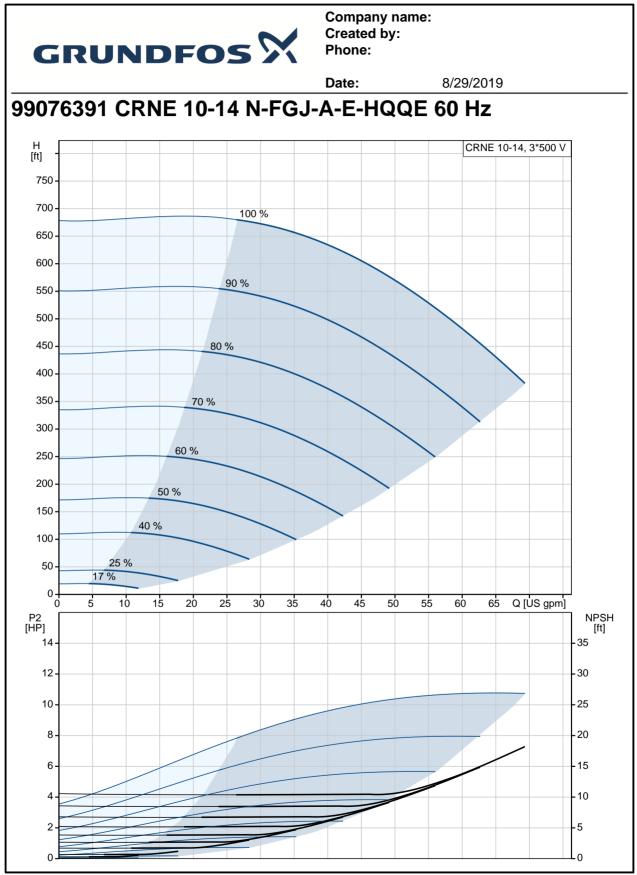
GRUNDFOS

nt	Description						
	The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.						
	Technical data						
	Controls:						
	Frequency converter:	Built-in					
	Pressure sensor:	Y					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-4 248 °F					
	Selected liquid temperature:	68 °F					
	Density:	62.29 lb/ft ³					
	Technical:						
	Rated pump speed:	3470 rpm					
	Rated flow:	53.3 US gpm					
	Rated head:	512.5 ft					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQE					
	Approvals on nameplate:	CURUS,NSF61					
	Curve tolerance:	ISO9906:2012 3E	3				
		1000000.2012 02	-				
	Materials:						
	Base:	Stainless steel					
		EN 1.4408					
		AISI 316					
	Impeller:	Stainless steel					
		EN 1.4401					
		AISI 316					
	Bearing:	SIC					
	Installation:						
	Maximum ambient temperature:	122 °F					
	Maximum operating pressure:	362.59 psi					
	Max pressure at stated temperat						
	Type of connection:	363 psi / -4 DIN / ANSI / JIS	F				
	Size of inlet connection:						
	Size of outlet connection:	DN 50 DN 50					
	Pressure rating for pipe connect Flange rating inlet:	300 lb					
	Flange size for motor:	254TC					
	Electrical data:						
	Motor standard:	NEMA					
	Motor type:	160H					
	IE Efficiency class:	IE5					

Printed from Grundfos Product Center [2019.04.002]



			Date:	8/29/2019
Count	Description			
	Rated power - P2: Power (P2) required by pump: Main frequency: Rated voltage: Service factor: Rated current: Cos phi - power factor: Rated speed: IE efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number:	15 HP 15 HP 60 Hz 3 x 440-480 V 1.15 17.9-16.6 A 0.92-0.91 360-4000 rpm 93.2% 93.2 % IP55 F 99256777		
	Others: Net weight: Gross weight: Shipping volume:	240 lb 355 lb 17.2 ft ³		



Printed from Grundfos Product Center [2019.04.002]

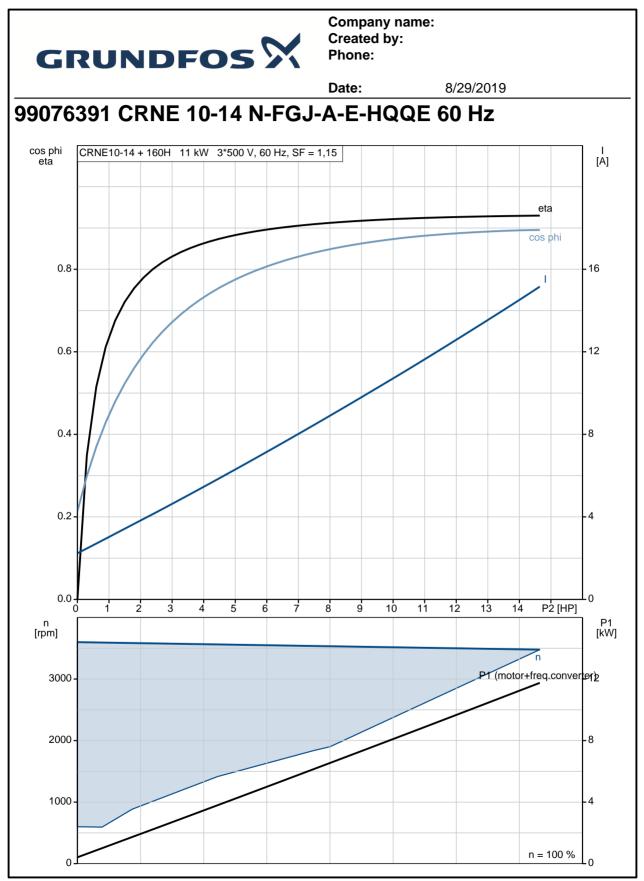


		Date:	8/29	/2019	
Description	Value	H [ft]		CRNE 10-14, 3*500 V	
General information:		_			
Product name:	CRNE 10-14	700 - 650 -	100 %		
	N-FGJ-A-E-HQQE	600 -			
Product No.:	99076391	550	90 %		
EAN:	5712606283347	500 -			
	5712606283347	450 -	80 %		
Technical:		400 -			
Rated pump speed:	3470 rpm	350 -	70 %		
Rated flow:	53.3 US gpm	300 -			
Rated head:	512.5 ft	250 -	60 %		
Head max:	669.3 ft	200 -	50 %		
Stages:	14	150 -	40 %		
Impellers:	14	100 -	$ \rightarrow $		
Number of reduced-diameter impellers:	0	50 - 1	25 % 7 %		
Low NPSH:	Ν		10 20 30	40 50 Q [US gpm]	NDOU
Pump orientation:	Vertical	P2 [HP]			NPSH [ft]
Shaft seal arrangement:	Single				
Code for shaft seal:	HQQE	10 -			- 40
Approvals on nameplate:	CURUS,NSF61				
Curve tolerance:	ISO9906:2012 3B	_			
Pump version:	Ν	5-			- 20
Model:	A				
Materials:					-0
Base:	Stainless steel				
	EN 1.4408		9.33		
	AISI 316	<u>ہ</u>			
Impeller:	Stainless steel	6.00			
	EN 1.4401				
	AISI 316	8.68			
Material code:	A	<u>G 1/2</u>	X41PX		
Code for rubber:	E	8 8 <u>1 X G 1/2</u>	2 8 <u>× 0.91 × 0.79</u>		
Bearing:	SIC		urtin . M		
Installation:		3.54			
Maximum ambient temperature:	122 °F		5.13	2.56	
Maximum operating pressure:	362.59 psi		11:80	8.46 9.76	
Max pressure at stated temperature:	363 psi / 250 °F				
	363 psi / -4 °F				
Type of connection:	DIN / ANSI / JIS				
Size of inlet connection:	DN 50		Ø⊕ <u>-</u>		
Size of outlet connection:	DN 50				
Pressure rating for pipe connection:	PN 25				
Flange rating inlet:	300 lb				
Flange size for motor:	254TC	— _ő			
Connect code:	FGJ				
Liquid:			8 0030ex 8 3 000 10 +34 V 8 +34 V		
Pumped liquid:	Water				
		••••••••••••••••••••••••••••••••			

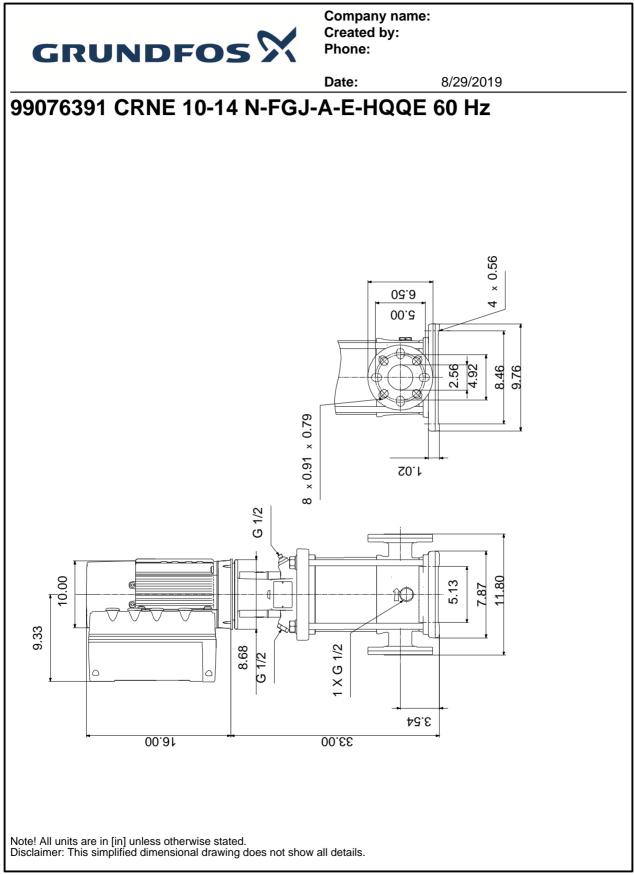
Printed from Grundfos Product Center [2019.04.002]



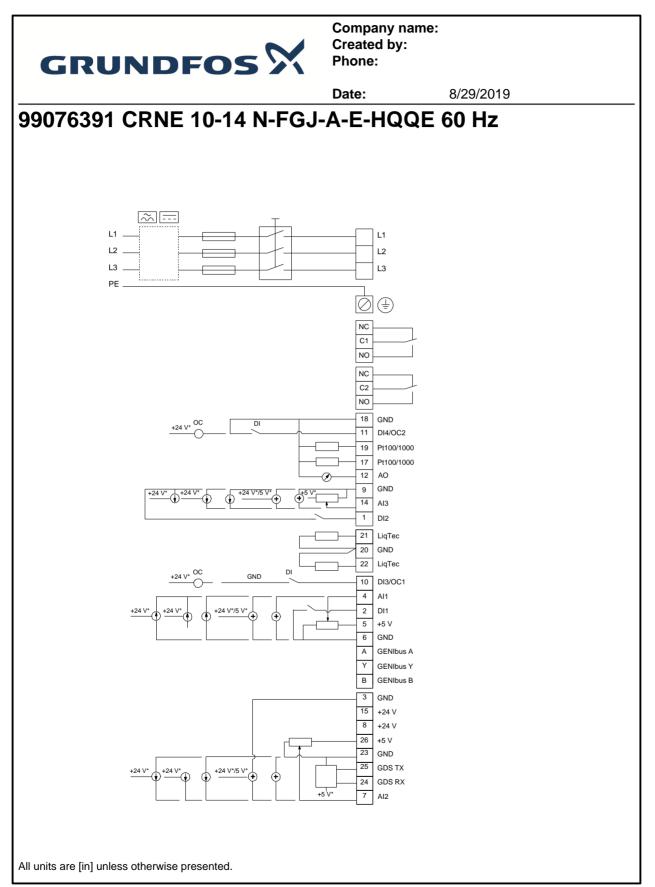
		Date:	8/29/2019	
Description	Value			
Liquid temperature range:	-4 248 °F			
Selected liquid temperature:	68 °F			
Density:	62.29 lb/ft ³			
Electrical data:				
Motor standard:	NEMA			
Motor type:	160H			
IE Efficiency class:	IE5			
Rated power - P2:	15 HP			
Power (P2) required by pump:	15 HP			
Main 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			
IE efficiency:	93.2%			
Motor efficiency at full load:	93.2 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor protection:	YES			
Motor Number:	99256777			
Controls:				
Control panel:	Graphical			
Function Module:	300			
Frequency converter:	Built-in			
Pressure sensor:	Y			
Others:				
Net weight:	240 lb			
Gross weight:	355 lb			
Shipping volume:	17.2 ft ³			



Printed from Grundfos Product Center [2019.04.002]



Printed from Grundfos Product Center [2019.04.002]



Printed from Grundfos Product Center [2019.04.002]