

Submittal Data

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

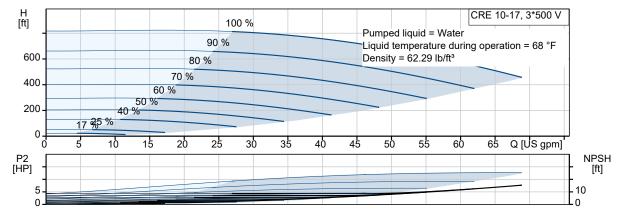


CRE 10-17 N-GJ-A-E-HQQE

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

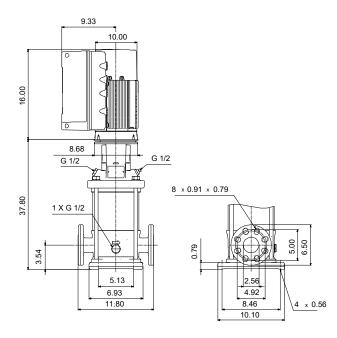
Product photo could vary from the actual product

Condition	s of Service	Pump Data		Motor Da	ata
Efficiency:		Max pressure at stated temperature:	363 psi / 250 °F	Rated power - P2:	15 HP
Liquid:	Water	Liquid temperature range:	-4 248 °F	Rated voltage:	440-480 V
Temperature:	68 °F	Maximum ambient temperature:	122 °F	Main frequency:	60 Hz
NPSH required:	ft	Approvals:	CURUS,NSF/ANSI 61	Enclosure class:	IP55
Specific Gravity:	1.000	Shaft seal:	HQQE	Insulation class:	F
		Product number:	99076378	Motor protection:	ELEC
				Motor type:	160H
				Eff. 1/1:	93.2 %



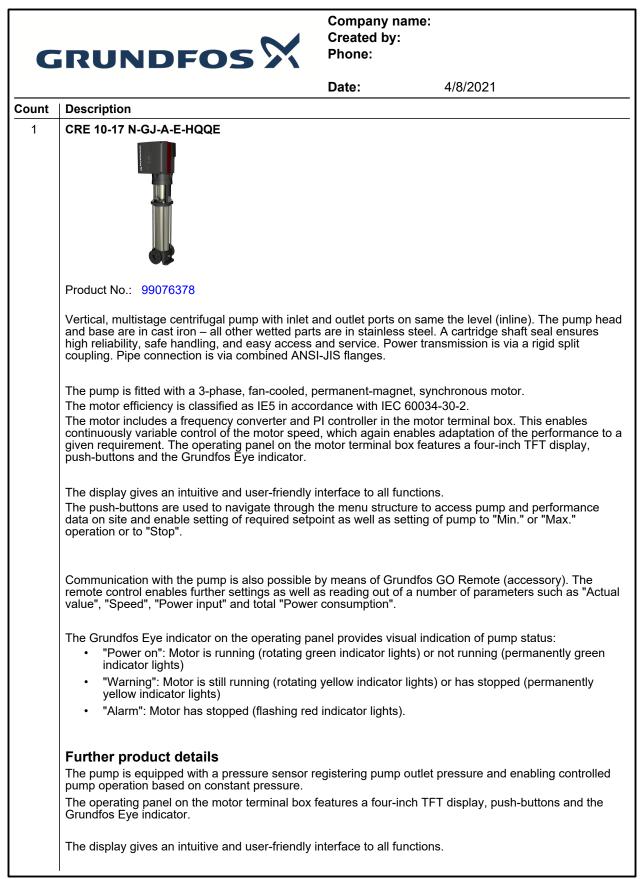
Submittal Data





Materials:

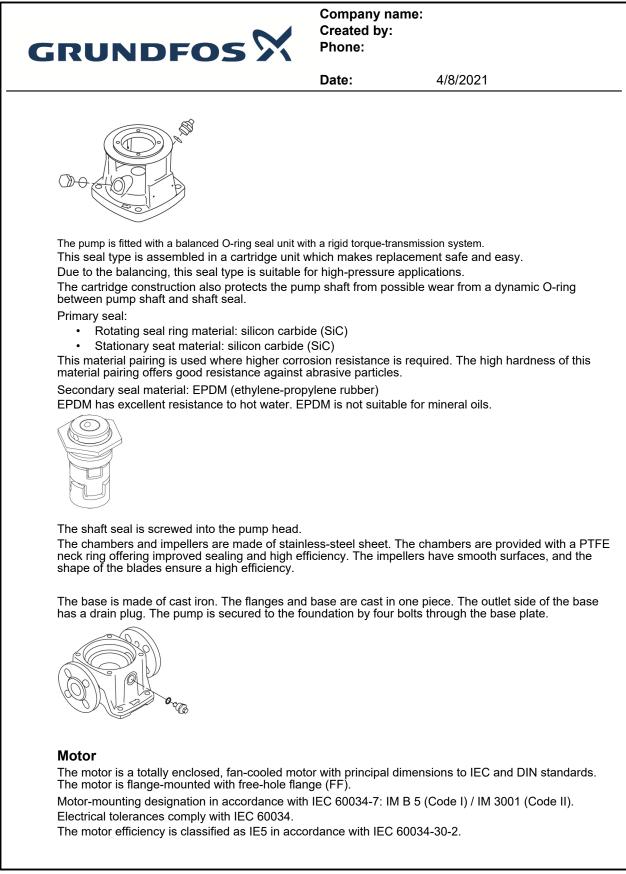
Base: Cast iron Base: EN 1561 EN-GJL-200 Base: ASTM A48-25B Impeller: Stainless steel Impeller: AISI 304 Impeller: EN 1.4301 Material code: А Code for rubber: Е





4/8/2021

Date: Count Description 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 yellow 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, 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.

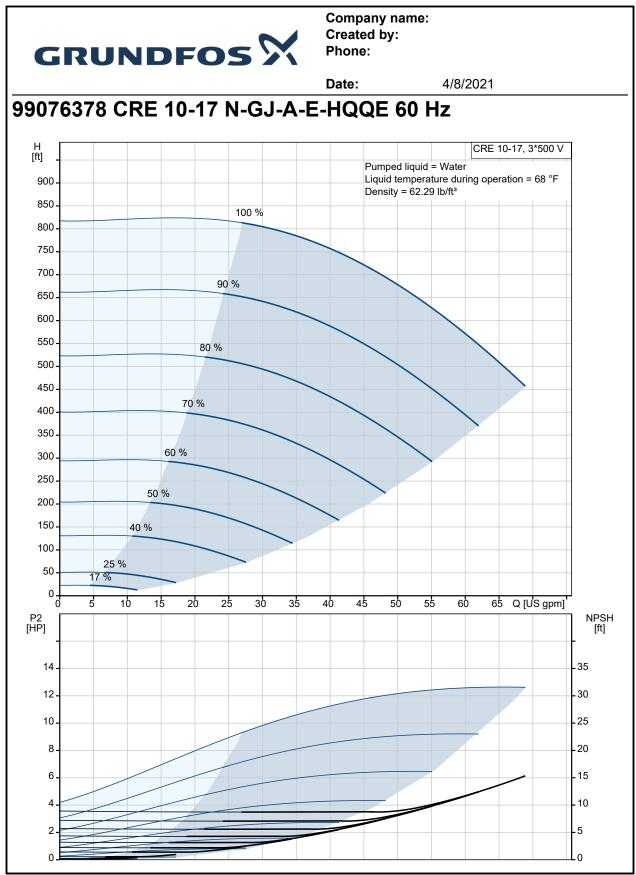


GRUNDFOS

			Date:	4/8/2021
Count	Description			
	The motor requires no external n slow- and quick-rising temperatu	notor protection.	The motor	control unit incorporates protection against
	Technical data	res, e.g. consta	ni ovenoau	
	Technical data			
	Liquid:			
	Pumped liquid:	Water		
	Liquid temperature range: Selected liquid temperature:	-4 248 °F 68 °F		
	Density:	62.29 lb/ft ³		
	Technical:			
	Rated pump speed:	3444 rpm		
	Rated flow:	53.3 US gpm		
	Rated head:	638.2 ft		
	Actual impeller diameter:	3.66 in		
	Pump orientation:	Vertical		
	Shaft seal arrangement:	Single		
	Code for shaft seal: Approvals on nameplate:	HQQE CURUS,NSF//		
	Curve tolerance:	ISO9906:2012		
	Materials:			
	Base:	Cast iron		
		EN 1561 EN-0	GJL-200	
		ASTM A48-25		
	Impeller:	Stainless stee		
		EN 1.4301		
	Pooring	AISI 304 SIC		
	Bearing:	SIC		
	Installation:			
	Maximum ambient temperature:	122 °F		
	Maximum operating pressure:	362.59 psi		
	Max pressure at stated temperat	ure: 363 psi / 363 psi /		
	Type of connection:	ANSI / JIS		
	Size of inlet connection:	DN 50		
	Size of outlet connection:	DN 50		
	Pressure rating for connection:	PN 25		
	Flange rating inlet:	300 lb		
	Flange size for motor:	254TC		
	Electrical data:			
	Motor standard:	NEMA		
		160H		
	IE Efficiency class: Rated power - P2:	IE5 15 HP		
		IJTE		



			Date:	4/8/2021	
Count	Description				
	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 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			
	Controls: Frequency converter: Pressure sensor:	Built-in Y			
	Others: DOE Pump Energy Index VL: Net weight: Gross weight: Shipping volume: Country of origin: Custom tariff no.:	0.40 258 lb 370 lb 17.2 ft ³ US 8413.70.2040			



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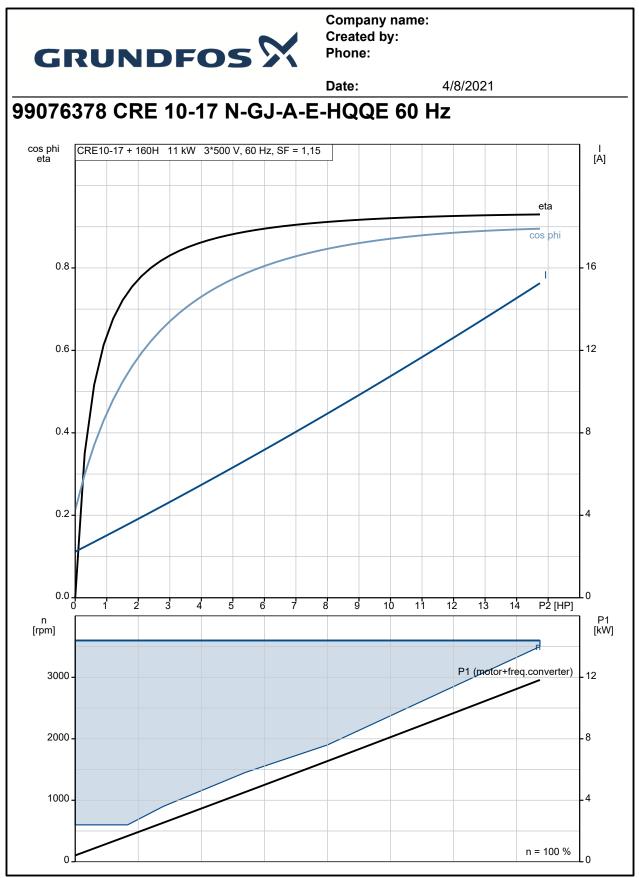


		H [ft]	CRE 10-17, 3*500 V
Description	Value	[ft]	Pumped liquid = Water
General information:			Liquid temperature during operation = 68 °F
Product name:	CRE 10-17 N-GJ-A-E-HQQE	800 -	Density = 62.29 lb/ft ³
Product No.:	99076378	700 -	90 %
EAN:	5712606283101		
Technical:		600 -	
Rated pump speed:	3444 rpm	500 -	80 %
Rated flow:	53.3 US gpm		
Rated head:	638.2 ft	400 -	70 %
Maximum head:	817 ft		60 %
Actual impeller diameter:	3.66 in	300 -	
Stages:	18	200 -	50 %
Impellers:	17		40 %
Number of reduced-diameter	0	100 -	25 % 17 %
Low NPSH:	Ν	0	10 20 30 40 50 Q [US gpm]
		- P2	10 20 30 40 50 Q [US gpin]
Pump orientation:	Vertical	P2 [HP]	
Shaft seal arrangement:	Single	15 -	
Code for shaft seal:	HQQE		
Approvals on nameplate:	CURUS,NSF/ANSI 61	10 -	
Curve tolerance:	ISO9906:2012 3B		
Pump version:	N	5-	
Model:	A		
Materials:		0	
Base:	Cast iron	·	
Base:	EN 1561 EN-GJL-200	9.33	
Base:	ASTM A48-25B		
Impeller:	Stainless steel	, i i i i i i i i i i i i i i i i i i i	
Impeller:	EN 1.4301	1 6.00	2
Impeller:	AISI 304		
Material code:	А	8.68 G 1/2	G 1/2
Code for rubber:	E	ئے	
Bearing:	SIC	8 <u>1 X G 1/2</u>	
Bearing:	SIC	2 384	
Installation:			
Maximum ambient temperature:	122 °F	L	<u>6.93</u> <u>11:80</u> <u>4.x0</u> .56
Maximum operating pressure:	362.59 psi		
Max pressure at stated temperature:	363 psi / 250 °F		
Max pressure at stated temperature:	363 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		
Flange rating inlet:	300 lb	are e	
Flange size for motor:	254TC		
Connect code:	GJ		I DO I DOMA I DOMA I DOMA I DOMA I DOMA I DOMA I DOMA
	U		
Liquid:			

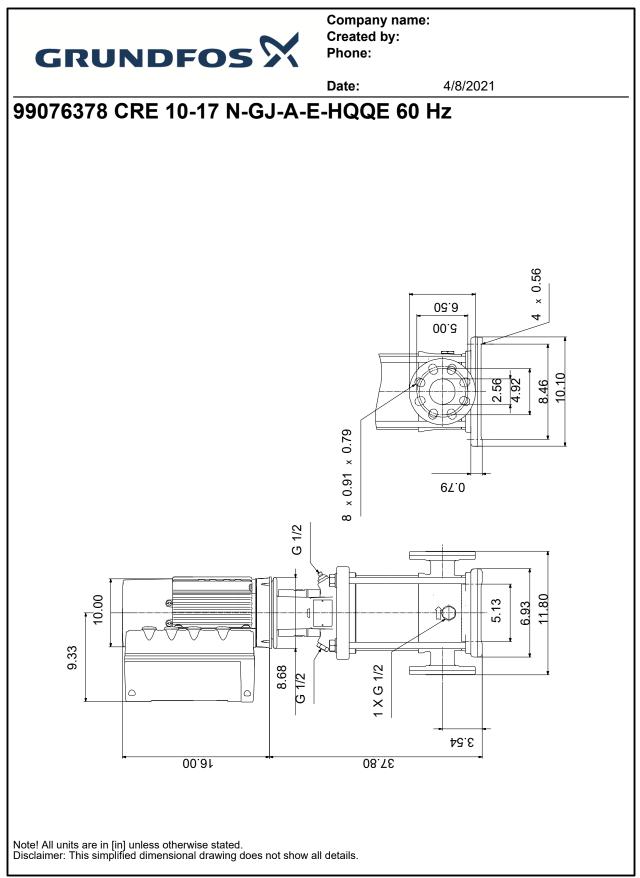
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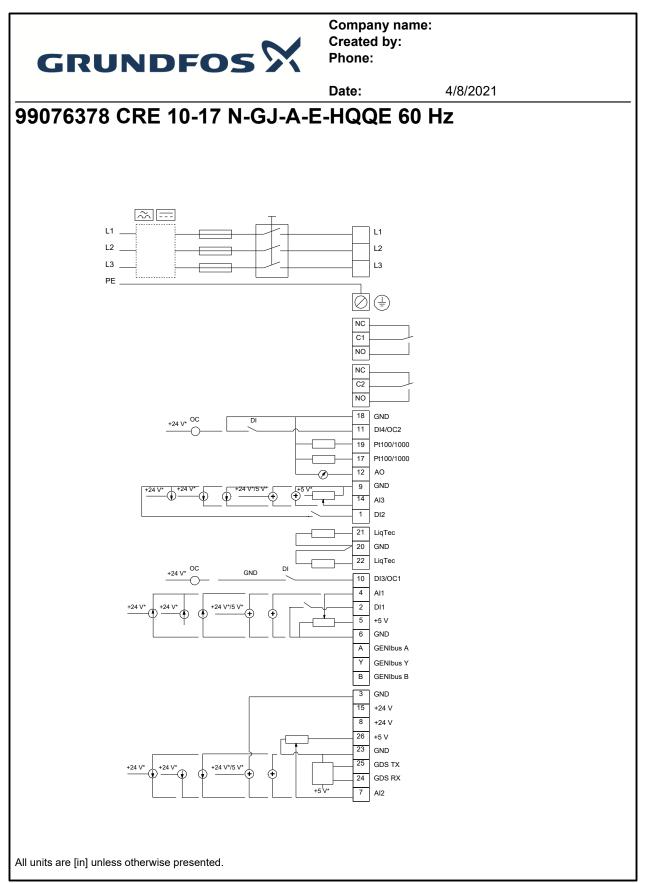


		Date:	4/8/2021
Description	Value		
Pumped liquid:	Water		
Liquid temperature range:	-4 248 °F		
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:			
Motor standard:	NEMA		
Motor type:	160H		
IE Efficiency class:	IE5		
Rated power - P2:	15 HP		
Power (P2) required by pump:	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:	ELEC		
Motor Number:	99256777		
Controls:			
Control panel:	Graphical		
Function Module:	300		
Frequency converter:	Built-in		
Pressure sensor:	Y		
Others:			
DOE Pump Energy Index VL:	0.40		
Net weight:	258 lb		
Gross weight:	370 lb		
Shipping volume:	17.2 ft ³		
Config. file no:	99074189		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		



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