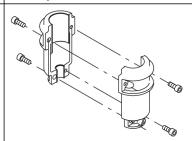




22/12/2022

Qty. | Description

1



The motor stool connects the pump head and motor. 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)

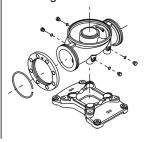
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 flanges are fastened to the base by means of locking rings.





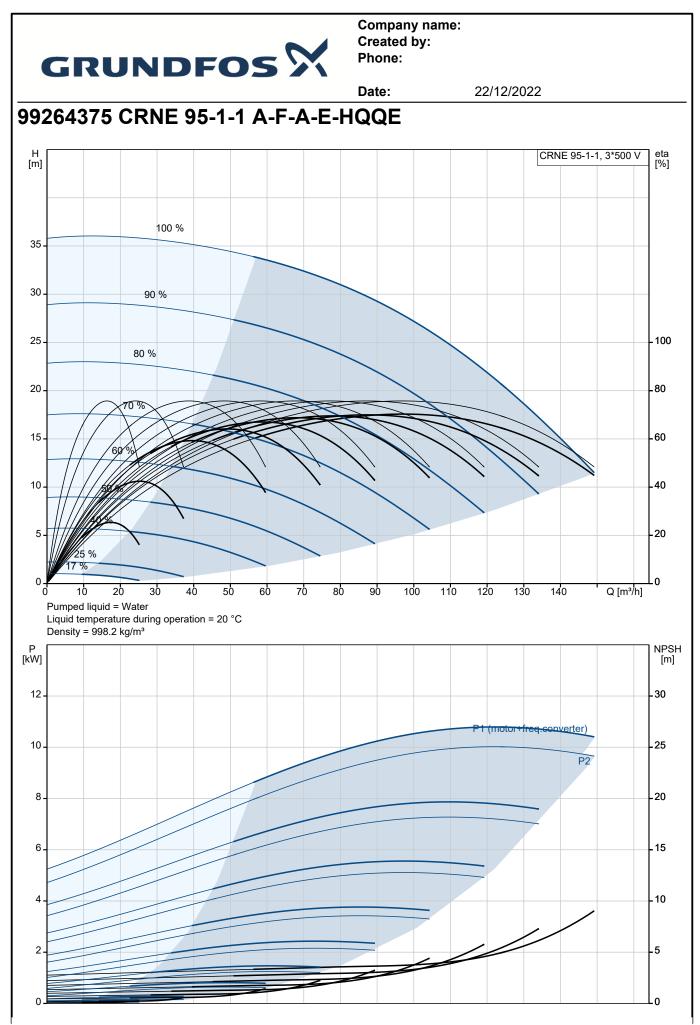
			Date:	22/12/2022			
у.	Description						
	Motor						
	The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).						
	Motor-mounting designation in a Electrical tolerances comply with		60034-7: IM B 5	(Code I) / IM 3001 (Code II).			
	The motor efficiency is classified	d as IE5 in accordan	ce with IEC 6003	4-30-2.			
	The motor requires no external quick-rising temperatures, e.g. of	motor protection. Th constant overload ar	e motor control un d stalled condition	nit incorporates protection against slow- and ns.			
	The terminal box has a number many inputs and outputs are red	of inputs and output quired:	s enabling the mo	otor to be used in advanced applications whe			
	 two dedicated digital input 						
	 three analog inputs, 0(4) 						
	 5 V voltage supply to pot 		sor				
	 one analog output, 0-10 						
	 two configurable digital in 		tor outputs				
	 two Pt100/Pt1000 inputs 						
	 LiqTec, dry-running prote 						
	 Grundfos Digital Sensor 						
	 24 V voltage supply for s 						
	 two signal-relay outputs 	(potential-free conta	cts)				
	GENIbus connection						
	 interface for Grundfos Cl 	M fieldbus module.					
	Technical data						
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-20 120 °C					
	Selected liquid temperature:	20 °C					
	Density:	998.2 kg/m³					
	Technical:						
	Pump speed on which pump da	ta are based: 355	5 rpm				
	Rated flow:	114 m ³ /h					
	Rated head:	23.6 m					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQE					
	Approvals:	CE,EAC,UKCA,S	EPRO				
	Approvals for drinking water:	ACS					
	Curve tolerance:	ISO9906:2012 3E	ł				
	Materials:						
	Base:	Stainless steel					
		EN 1.4408					
		ASTM A351 CF8I	N				
	Impeller:	Stainless steel					
		EN 1.4401					
		AISI 316					
	Bearing:	WC/WC					
	Support bearing:	Graflon					
	Material certified according to:	European standa	ds				
	Installation:						
	Max. ambient temperature:	50 °C					
	Maximum operating pressure:	16 bar					
	Max pressure at stated temp:	16 bar / 120 °C					
	Type of connection:	DIN					
	Size of inlet connection:	DN 100					

Size of inlet connection:

DN 100



			Date:	22/12/2022
ty.	Description			
	Size of outlet connection:	DN 100		
	Pressure rating for connection:	PN 16		
	Flange size for motor:	FF300		
	Electrical data:			
	Motor standard:	IEC		
	Motor type:	160MH		
	IE Efficiency class:	IE5		
	Rated power - P2:	11 kW		
	Power (P2) required by pump:	11 kW		
	Over/undersize motor:	Standard motor size		
	Mains frequency:	50 / 60 Hz		
	Rated voltage:	3 x 380-500 V		
	Rated current:	20.3-16.0 A		
	Cos phi - power factor:	0.93-0.90		
	Rated speed:	360-4000 rpm		
	Efficiency:	93.1%		
	Motor efficiency at full load:	93.1 %		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	98971053		
	Controls:			
	Frequency converter:	Built-in		
	Pressure sensor:	N		
	Minimum efficiency index, MEI ≥ Net weight: Gross weight: Shipping volume: Danish VVS No.: Thrust handling device: Country of origin: Custom tariff no.:	: 0.70 165 kg 208 kg 0.611 m ³ 385925611 N GB 84137075		



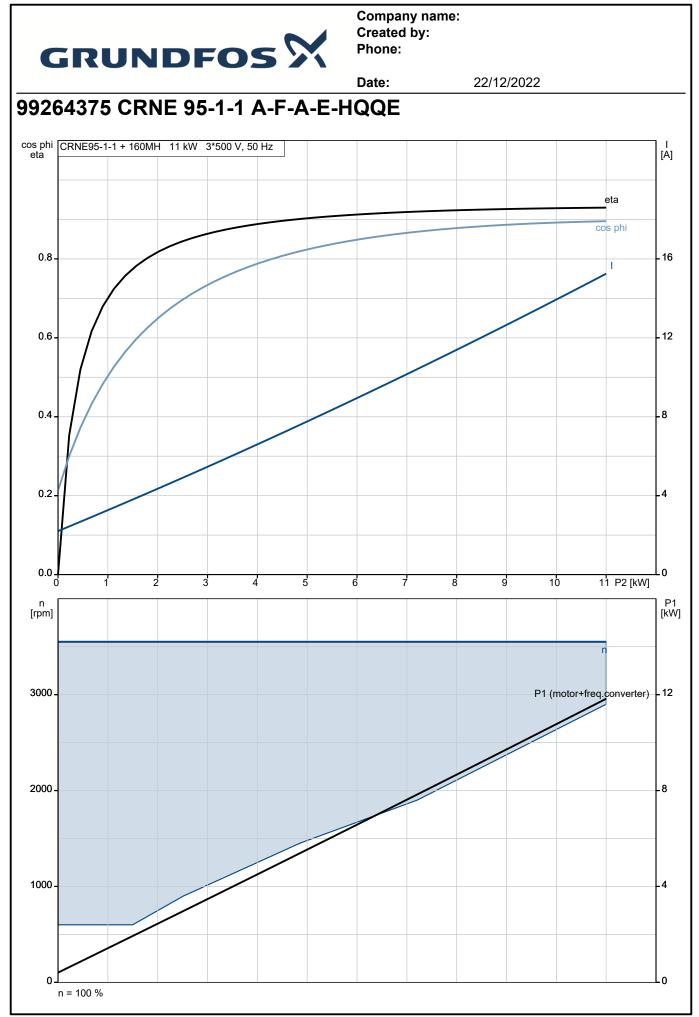


GRUNDF		_				
	Date: 22/12/2022					
Description	Value	[m]		CRN	E 95-1-1, 3*500 V	[%]
General information:			100 %			
Product name:	CRNE 95-1-1 A-F-A-E-HQQE	35	100 %			-
Product No:	99264375	30 -	90 %			
EAN number:	5713826223298					
Technical:		25 -	80 %			100
Pump speed on which pump data are based:	3555 rpm	20-	0%			- 80
Rated flow:	114 m³/h	- $ /A$				
Rated head:	23.6 m	15- 60				- 60
Maximum head:	36.4 m	10 - //50			11 1	40
Impellers:	1					
Number of reduced-diameter impellers:	1	5-				- 20
Low NPSH:	Ν	17%				
Pump orientation:	Vertical	0	40 60	80 100 12	0 Q [m³/h]	10
Shaft seal arrangement:	Single	Pumped lin	quid = Water			
Code for shaft seal:	HQQE	Liquid tem	perature during operation	n = 20 °C		
Approvals:	CE,EAC,UKCA,SEPRO	,	998.2 kg/m ³			
••	ACS	P [kW]				NPSH [m]
Approvals for drinking water: Curve tolerance:	ACS ISO9906:2012 3B	_ ` .				+``
				P1 (motor+free	<u>converter</u>)	
Pump version:	A	10 -			P2	- 25
Model:	A	8-				20
Materials:						
Base:	Stainless steel	6-				- 15
Base:	EN 1.4408					10
Base:	ASTM A351 CF8M	4-			/	10
Impeller:	Stainless steel	2				- 5
Impeller:	EN 1.4401					
Impeller:	AISI 316	0				Lo
Material code:	Α	1				
Code for rubber:	E	254.9	37			
Bearing:	WC/WC]			
Support bearing:	Graflon					
Material certified according to:	European standards	- 8 4				
Installation:		─ U/*\⊌				
Max. ambient temperature:	50 °C		350			
Maximum operating pressure:	16 bar	- <u>G 1/2</u>	<u>G 1/2</u>			
Max pressure at stated temp:	16 bar / 120 °C	- 11	-			
		- 19				
Type of connection:	DIN DN 100	_	4 X G 1/2	8 × 18		
Size of inlet connection:	DN 100	N/A	4 × 18.5			
Size of outlet connection:	DN 100					
Pressure rating for connection:	PN 16	225				
Flange size for motor:	FF300	275	•	419		
Connect code:	F	H 000				
Liquid:						
Pumped liquid:	Water	50	_			
Liquid temperature range:	-20 120 °C		■			
Selected liquid temperature:	20 °C	PE	<u>→ Ľ</u> , – U" Ø®			
Density:	998.2 kg/m³					
Electrical data:	~					
Motor standard:	IEC		11 GALD 11 GALD 11 GALD 11 GALD 12 GALD			
Motor type:	160MH	_	17 Processoo 17 Processoo 17 Processoo 12 AO			
IE Efficiency class:	IE5					
Rated power - P2:	11 kW		27 LiqTec 28 GND 27 LiqTec			
Power (P2) required by pump:	11 kW	Ø				
Over/undersize motor:	Standard motor size		7 Gilblaus V B Gilblaus B 7 GND			
Mains frequency:	50 / 60 Hz		13 +56 V 1 +56 V 20 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -			
Rated voltage:	3 x 380-500 V		-31/18/2 (B 10) TX			
Rated current:	20.3-16.0 A		T_ A0			

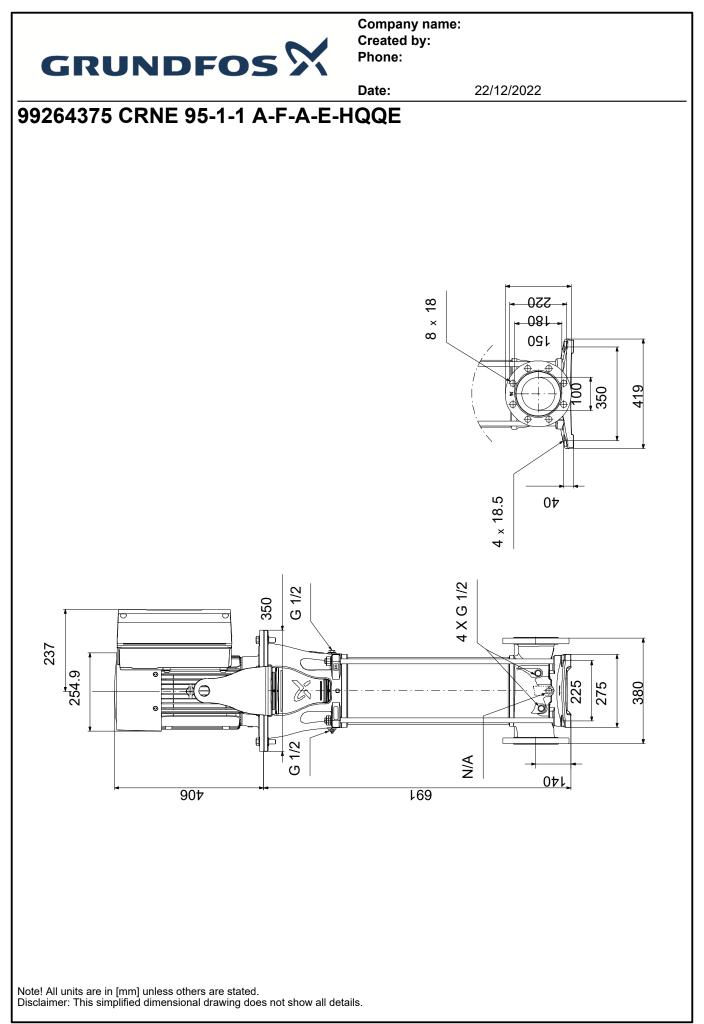
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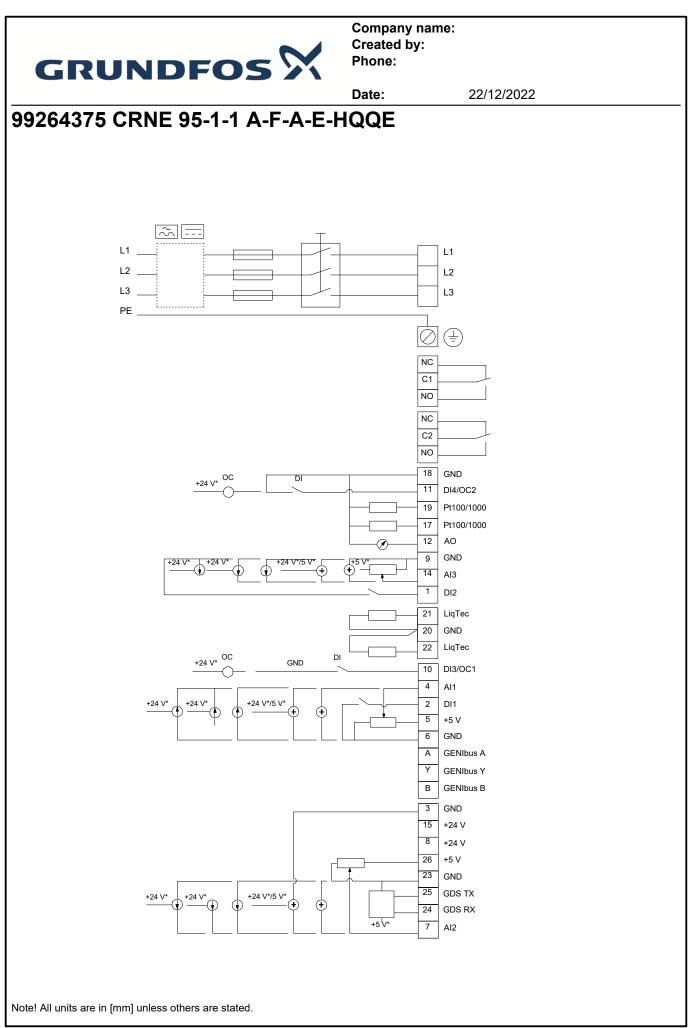


22/12/2022 Date: Description Value Cos phi - power factor: 0.93-0.90 Rated speed: 360-4000 rpm Efficiency: 93.1% Motor efficiency at full load: 93.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC 98971053 Motor No: Controls: Function Module: FM300 - Advanced Frequency converter: Built-in Ν Pressure sensor: Others: 0.70 Minimum efficiency index, MEI ≥: Net weight: 165 kg Gross weight: 208 kg 0.611 m³ Shipping volume: Config. file no: 99059432 Danish VVS No.: 385925611 Thrust handling device: Ν Country of origin: GB Custom tariff no .: 84137075



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Your pos.

Position

Company name: Created by: Phone:

Date: 22/12/2022 **Order Data:** Total **Product name** Amount **Product No** 99264375 CRNE 95-1-1 1 Price on request

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