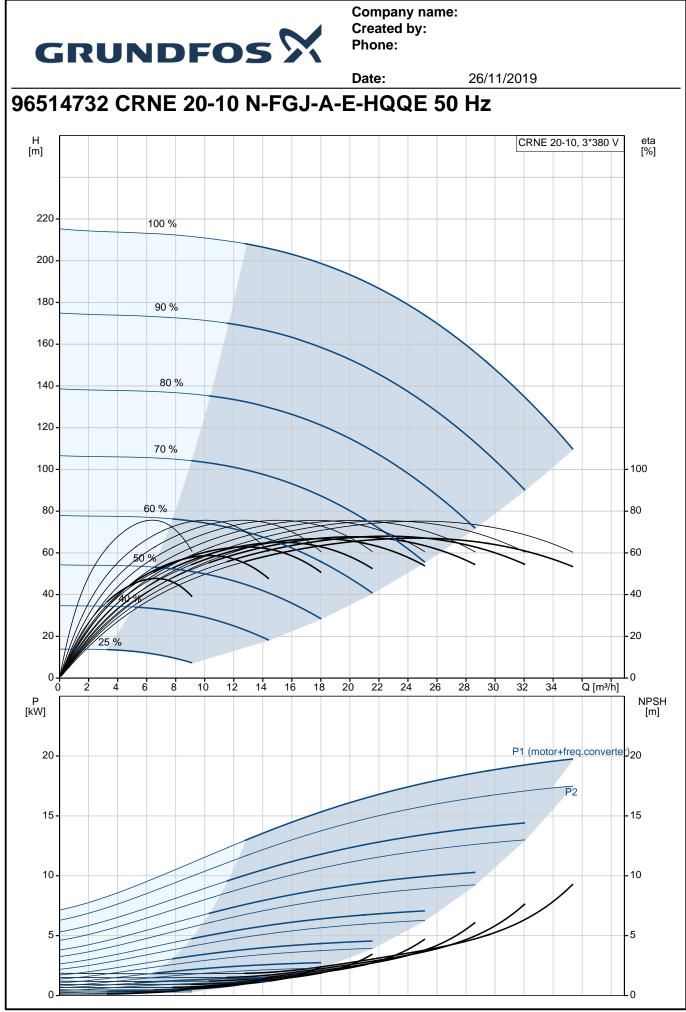
	GRUNDF	058	Company n Created by: Phone:				
			Date:	26/11/2019			
Qty.	Description						
1	CRNE 20-10 N-FGJ-A-E-HQ	QE					
	Product No.: 96514732						
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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. 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 enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".						
	Communication with the pump is 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".						
	<ul> <li>The terminal box holds terminals for these connections:</li> <li>pump start/stop input (potential-free contact)</li> <li>remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA</li> </ul>						
	<ul> <li>10 V voltage supply for setpoint potentiometer, Imax = 5 mA</li> <li>three analog sensor inputs, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to one of these inputs</li> </ul>						
	<ul> <li>24 V voltage supply for sensor, Imax = 40 mA</li> <li>one analog output</li> <li>three digital inputs</li> <li>two Pt100 inputs</li> </ul>						
	<ul> <li>two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"</li> <li>RS-485 GENIbus connection</li> <li>interface for Grundfos CIM fieldbus module.</li> </ul>						
	Controls:						
	Frequency converter: Pressure sensor:	Built-in Yes					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-20 120 °C					
	Selected liquid temperature: Density at selected liquid tem	20 °C perature: 998.2 kg/n	n <sup>3</sup>				
	Technical: Pump speed on which pump data are based: 3540 rpm						
	Rated flow: Rated head:	25.3 m³/h 172.4 m					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQE					
	Approvals on nameplate:	CE, EAC,ACS					
	Curve tolerance:	ISO9906:2012 3E	2				



Company name: Created by: Phone:

			Date:	26/11/2019			
y.	Description						
	Materials:						
	Base:	Stainless steel					
		EN 1.4408					
		AISI 316					
	Impeller:	Stainless steel					
		EN 1.4401					
		AISI 316					
	Pooring:	SIC					
	Bearing:	310					
	Installation:						
	Maximum ambient temperature:	40 °C					
	Maximum operating pressure:	25 bar					
	Max pressure at stated temp:	25 bar / 120 °C					
		25 bar / -20 °C					
	Type of connection:	DIN / ANSI / JIS					
	Type of connection:						
	Size of inlet connection:	DN 50					
	Size of outlet connection:	DN 50					
	Pressure rating for pipe connect						
	Flange rating inlet:	300 lb					
	Flange size for motor:	FF300					
	Electrical data:						
	Motor standard:	IEC					
	Motor type:	160LB					
	IE Efficiency class:	IE3					
	Rated power - P2:	18.5 kW					
	Power (P2) required by pump:	18.5 kW					
	Mains frequency:	50 Hz					
	Rated voltage:	3 x 380-480 V					
	Rated current:	37.0-31.0 A					
	Cos phi - power factor:	0.91-0.88					
	Rated speed:	480-3540 rpm					
	Efficiency:	IE3 92,4%					
	Motor efficiency at full load:	92.4 %					
	Number of poles:	2					
	Enclosure class (IEC 34-5):	IP55					
		F					
	Insulation class (IEC 85):						
	Motor No:	85901026					
	Others:						
	Minimum efficiency index, MEI	: 0.70					
	Net weight:	219 kg					
	Gross weight:	271 kg					
	Shipping volume:	0.82 m <sup>3</sup>					
	Country of origin:	GB					
	Custom tariff no.:						
	Custom tanii no	84137075					

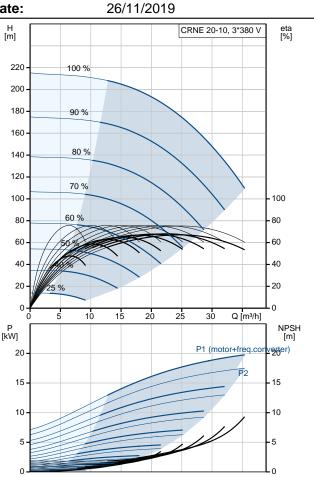


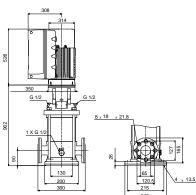
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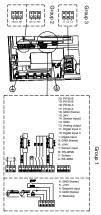


## Company name: Created by: Phone:

		Date:
Description	Value	H [m]
General information:		
Product name:	CRNE 20-10 N-FGJ-A-E-HQQE	220 - 100
Product No:	96514732	200 -
EAN number:	5700396712079	180 - 90
	5700396712079	
Technical:		160 -
Pump speed on which pump data are based:	3540 rpm	140 - 8
Rated flow:	25.3 m³/h	120 - 70
Rated head:	172.4 m	100 -
Head max:	214 m	80 - 60
Stages:	10	80-
Impellers:	10	60 - 50 %
Number of reduced-diameter impellers:	0	40 -
	-	
Low NPSH:	No	20 - 25 %
Pump orientation:	Vertical	0
Shaft seal arrangement:	Single	0 5
Code for shaft seal:	HQQE	P [kW]
Approvals on nameplate:	CE, EAC,ACS	20 -
Curve tolerance:	ISO9906:2012 3B	
Pump version:	N	15 -
Model:	Α	
Materials:		10-
Base:	Stainless steel	
	EN 1.4408	5-
	AISI 316	
Impeller:	Stainless steel	0
	EN 1.4401	
Material code:	AISI 316	30
	A	D
Code for rubber:	E	
Bearing: Installation:	SIC	228
	40 °C	D
Maximum ambient temperature:	25 bar	
Maximum operating pressure:	25 bar / 120 °C	
Max pressure at stated temp:	25 bar / -20 °C	7 8
Type of connection:	DIN / ANSI / JIS	<u>1 X G 1/2</u>
Size of inlet connection:	DN 50	
Size of outlet connection:	DN 50	
Pressure rating for pipe connection:	PN 25	
Flange rating inlet:	300 lb	
Flange size for motor:	FF300	
Connect code:	FGJ	
Liquid:	100	
Pumped liquid:	Water	
Liquid temperature range:	-20 120 °C	
Selected liquid temperature:	20 °C	
Density at selected liquid temperature:	998.2 kg/m <sup>3</sup>	
Electrical data:		
Motor standard:	IEC	18. P100 / 18. P100 / 17. P100 / 16. GND ( 15. GND )
Motor type:	160LB	14: Samor 13: GND 12: Analog 11: Digital
IE Efficiency class:	IE3	10 Digital 1 Digital
Rated power - P2:	18.5 kW	1.5 mor 1.5
Power (P2) required by pump:	18.5 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-480 V	
		L







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Company name: Created by: Phone:

Date: 26/11/2019 Description Value 37.0-31.0 A Rated current: Cos phi - power factor: 0.91-0.88 Rated speed: 480-3540 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 85901026 Controls: Function Module: ADVANCED I/O Frequency converter: Built-in Yes Pressure sensor: Others: Minimum efficiency index, MEI : 0.70 Net weight: 219 kg Gross weight: 271 kg Shipping volume: 0.82 m<sup>3</sup> Country of origin: GB Custom tariff no .: 84137075

