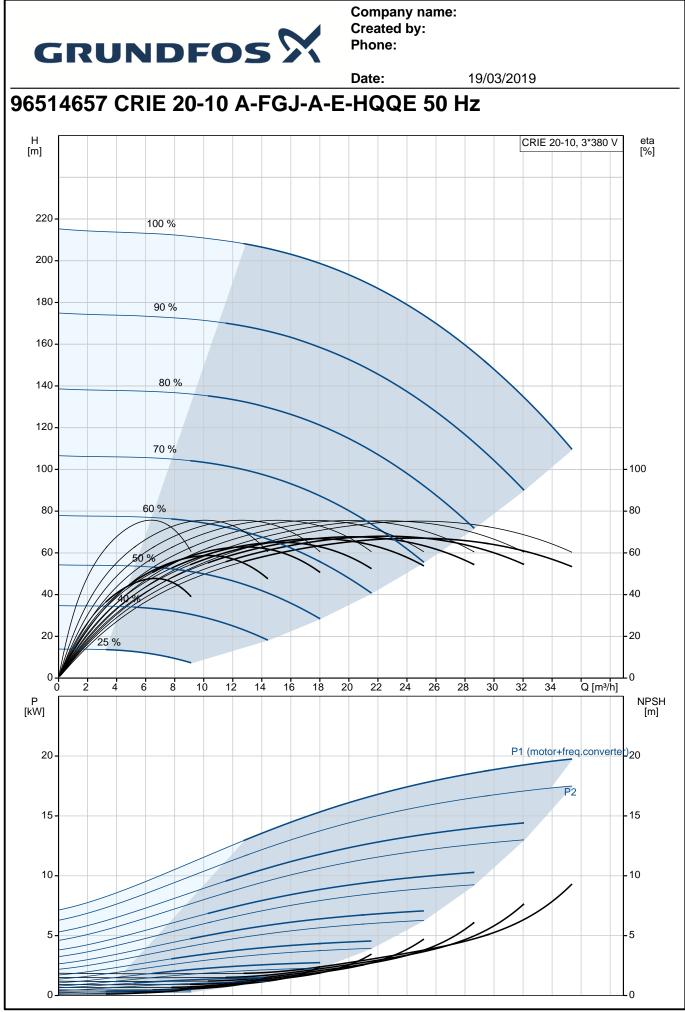
	GRUNDF	058	Company name: Created by: Phone:			
			Date:	19/03/2019		
у.	Description					
	CRIE 20-10 A-FGJ-A-E-HQQE					
	Product No.: 96514657					
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless 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> <li>10 V voltage supply for setpoint potentiometer, Imax = 5 mA</li> <li>three analog sensor inputs, 0-10 V, 0(4)-20 mA</li> <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> <li>two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"</li> <li>RS-485 GENIbus connection</li> </ul>					
	interface for Grundfos CIM fieldbus module.					
	<b>Controls:</b> Frequency converter: Pressure sensor:	Built-in N				
	Liquid:					
	Pumped liquid:	Water				
	Liquid temperature range:	-20 120 °C				
	Liquid temperature during operation: 20 °C Density: 998.2 kg/m <sup>3</sup>					
	Technical:					
	Pump speed on which pump data are based: 3540 rpm					
	Rated flow:	25.3 m³/h				
	Rated head: Pump orientation:	172.4 m Vertical				
	Shaft seal arrangement:	Single				
	Code for shaft seal:	HQQE				
	Approvals on nameplate: Curve tolerance:	CE, EAC,ACS ISO9906:2012 3E	3			
	Materials:					



Company name: Created by: Phone:

			Date:	19/03/2019
4	Description			
	Base: Impeller:	Stainless steel EN 1.4408 AISI 316 Stainless steel EN 1.4301		
	Bearing:	AISI 304 SIC		
	Installation: Maximum ambient temperature:	40.90		
	Maximum operating pressure:	25 bar		
	Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C		
	Type of connection:	DIN / ANSI / JIS		
	Size of inlet connection:	DN 50		
		2 inch		
	Size of outlet connection:	DN 50		
		2 inch		
	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: Power (P2) required by pump:	18.5 kW 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: Enclosure class (IEC 34-5):	2 IP55		
	Insulation class (IEC 85):	F		
	Others: Minimum efficiency index, MEI â	‰¥· 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		
-1	1			

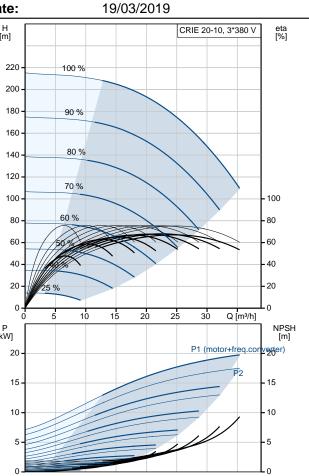


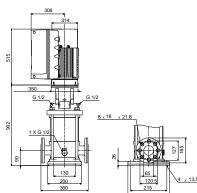
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## Company name: Created by: Phone:

		Date:	19/03/20
Description	Value	H [m]	
General information:			
Product name:	CRIE 20-10 A-FGJ-A-E-HQQE	220 -	100 %
Product No:	96514657	200 -	
EAN number:	5700396710587	180 -	90 %
Technical:		160 -	
Pump speed on which pump data are based:	3540 rpm	140 -	80 %
Rated flow:	25.3 m³/h	120	
Rated head:	172.4 m	120 -	70 %
Head max:	214 m	100 -	
Stages:	10	80 -	60 %
Impellers:	10		XXX
Number of reduced-diameter impellers:	0	60 - 40 -	15676
Low NPSH:	Ν	40	
Pump orientation:	Vertical	20 - 25	%
Shaft seal arrangement:	Single	0	
Code for shaft seal:	HQQE	Ó	5 10 15 20
Approvals on nameplate:	CE, EAC, ACS	P [kW]	
Curve tolerance:	ISO9906:2012 3B	20 -	
Pump version:	A		
Model:	A	15 -	
Materials:	Stainlage steel		
Base:	Stainless steel EN 1.4408	10 -	11/
	AISI 316		
Impeller:	Stainless steel	5-	
impener.	EN 1.4301		
	AISI 304	0	
Material code:	A		308
Code for rubber:	E		314
Bearing:	SIC		
Installation:		5.15	
Maximum ambient temperature:	40 °C		
Maximum operating pressure:	25 bar		
Max pressure at stated temp:	25 bar / 120 °C		<u>G 1/2</u> G 1/2
	25 bar / -20 °C		
Type of connection:	DIN / ANSI / JIS	902	1 X G 1/2
Size of inlet connection:	DN 50		
	2 inch	06	
Size of outlet connection:	DN 50		130
	2 inch		300
Pressure rating for pipe connection:	PN 25		
Flange rating inlet:	300 lb		
Flange size for motor:	FF300		
Connect code:	FGJ		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-20 120 °C		
Liquid temperature during operation:	20 °C	¢	<b>b</b>
Density:	998.2 kg/m <sup>3</sup>		20: P100 B 12: P100 B 16: P100 A 17: P100 A 16: GND (Hama)
Electrical data:	150		10: uvo2 (termi) 10: 24/V 14: Sensor input2 13: GND 12: Analog output
Motor standard:	IEC		11: Digital input 4 10: Digital input 3 1: Digital input 4 2: GAN (trann)
Motor type:	160LB		
IE Efficiency class:	IE3		
Rated power - P2:	18.5 kW		6: GND (frame) 5: +10V
Power (P2) required by pump:	18.5 kW		<ul> <li>composite imposit</li> <li>3: GND (Iname)</li> <li>2: Standinkop</li> </ul>
Mains frequency:	50 Hz		لع الع 







Company name: Created by: Phone:

		Date:	19/03/2019
Description	Value		
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		
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:	85901026		
Controls:			
Function Module:	ADVANCED I/O		
Frequency converter:	Built-in		
Pressure sensor:	Ν		
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		

