G	RI	UNDFOS 🕅	Company name: Created by: Phone:							
			Date:	20/02/2018						
Position	Qty.	Description								
	1	CRIE 1-9 AN-CA-I-E-HQQE								
		Product No.: 98389383								
		Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in- enabling installation in a horizontal one-pipe system. Pump materials in contact with the liquis stainless steel.								
		A cartridge shaft seal ensures high reliabilit transmission is via a rigid split coupling. Pip	y, safe handling and bework connection is	easy service and access. Power via FlexiClamps.						
		The pump is fitted with a 1-phase, fan-coole efficiency is classified as IE5 in accordance	ed, permanent-magne with IEC 60034-30-2	et, synchronous motor. The motor						
		The motor includes a frequency converter a continuously variable control of the motor s a given requirement. A control panel on the well as setting of pump to "Min." or "Max." control panel provides visual indication of p	peed, which again en motor terminal box e operation or to "Stop".	ables adaptation of the performance to enables setting of required setpoint as						
		indicator lights)		ts) or not running (permanently green						
		 "Warning": Motor is still running (rota yellow indicator lights) 								
		 "Alarm": Motor has stopped (flashing 								
		Communication with the pump is possible b remote control enables further settings as v "Actual value", "Speed", "Power input" and	y means of the Grun vell as reading out of total "Power consum	dfos GO Remote (accessory). The a number of parameters such as ption".						
		The terminal box has a number of inputs ar applications where many inputs and outputs - two dedicated digital inputs	nd outputs enabling th s are required:	ne motor to be used in advanced						
			V, 0-10 V, 0.5 - 3.5 \	/; the factory-fitted pressure sensor is						
		 5 V voltage supply to potentiometer one analog output, 0-10 V, 0(4)-20 n 								
		 two configurable digital inputs or ope two Pt100/Pt1000 inputs 								
		- LiqTec, dry-running protection sense								
		 Grundfos Digital Sensor input and or 24 V voltage supply for sensors 								
		 two signal relay outputs (potential-free GENIbus connection interface for Grundfos CIM fieldbus r 								
		Liquid: Pumped liquid: Water Liquid temperature range: -20 120 Liquid temperature during operation: 20 °C Density: 998.2 kg/r	2							
		Technical:								



Company name: Created by: Phone:

'4'			Date:	20/02/2018
osition	Qty.	-		
		Speed for pump data:	3400 rpm	
		Rated flow:	2.2 m³/h 58.7 m	
		Rated head: Pump orientation:	Vertical	
		Shaft seal arrangement:	Single	
		Code for shaft seal:	HQQE	
		Approvals on nameplate:	CE, EAC,ACS	
		Curve tolerance:	ISO9906:2012 3B	
		Materials:		
		Base:	Stainless steel	
			EN 1.4408	
			AISI 316	
		Impeller:	Stainless steel EN 1.4301	
			AISI 304	
		Bearing material:	SIC	
		Installation:		
		Maximum ambient temperature:		
		Maximum operating pressure:	25 bar	
		Max pressure at stated temp:	25 bar / 120 °C	
			25 bar / -20 °C	
		Type of connection: Size of inlet connection:	FlexiClamp	
		Size of met connection:	DN 32 1 1/4 inch	
		Size of outlet connection:	DN 32	
			1 1/4 inch	
		Pressure rating:	PN 25	
		Flange size for motor:	FT100	
		Electrical data:		
		Motor standard:	IEC	
		Motor type:	80A	
		IE Efficiency class:	IE5	
		Rated power - P2:	0.75 kW	
		Power (P2) required by pump:	0.75 kW	
		Mains frequency:	50 Hz	
		Rated voltage:	1 x 200-240 V	
		Rated current:	4,70-3,90 A	
		Cos phi - power factor:	0,99	
		Rated speed:	360-4000 rpm	
		Efficiency:	85,2%	
		Motor efficiency at full load: Enclosure class (IEC 34-5):	85.2 % IP55	
		Insulation class (IEC 85):	F	
		Controls:		
		Frequency converter:	Built-in	
		Pressure sensor:	Y	
			1	
		Others:		
		Minimum efficiency index, MEI	: 0.7	
		Net weight:	23.3 kg	
		Gross weight:	26.2 kg	
		Shipping volume:	0.143 m³	



Company name: Created by: Phone:

				20/02/				
Description	Value	H [m]		CRIE 1-9, 1*		1*230	V	
General information:								-9
Product name:	CRIE 1-9 AN-CA-I-E-HQQE							Γ
Product No:	98389383	80 -	100.0/					-8
EAN number:	5711494176823	- U0	100 %	_				- °
EAN Humber.	5711494170825							_
Technical:		70 -	00.04					
	2400		90 %	_				
Speed for pump data:	3400 rpm	60 -						-6
Rated flow:	2.2 m³/h		80 %					
Rated head:	58.7 m	50 -	00 %	\sim	~~	\sim		- 50
Stages:	9				\prec			
Impellers:	9	40 -	70%				$ \rightarrow $	40
Low NPSH:	N			HAR -				
Pump orientation:	Vertical	30 -	60%	H >		X Y		- 30
Shaft seal arrangement:	Single							
Code for shaft seal:	HQQE	20						
Approvals on nameplate:	CE, EAC,ACS	20 -						- 20
Curve tolerance:	ISO9906:2012 3B		40 %		Y			
Pump version:	AN	10 -		Ň				10
•			21 %					
Model:	Α	0-	0.5	1.0 1.	5 2	.0 2.5	Q [m³/h	
Matariala		Р	, 0.5	1.0 1.	- Z	2.5	ر (۱۱۳/۱ ا	יי אך
Materials:		[W]						
Base:	Stainless steel	800 -					P1	- 8
	EN 1.4408						7	
	AISI 316	600					P2	
Impeller:	Stainless steel	600 -		//				-6
	EN 1.4301							
	AISI 304	400 -					1	-4
Material code:						- //		
Code for rubber:	E	200 -			_			- 2
Bearing material:	SIC							
Deaning material.	516	0						
Installation:		0-						0
Maximum ambient temperature:	50 °C							
•								
Maximum operating pressure:	25 bar							
Max pressure at stated temp:	25 bar / 120 °C							
	25 bar / -20 °C							
Type of connection:	FlexiClamp							
Connect code:	CA							
Size of inlet connection:	DN 32							
	1 1/4 inch							
Size of outlet connection:	DN 32							
	1 1/4 inch							
Pressure rating:	PN 25							
Flange size for motor:	FT100							
Liquid:								
Pumped liquid:	Water							
Liquid temperature range:	-20 120 °C							
Liquid temperature during operation:	20 °C							
Density:	998.2 kg/m³							
Electrical data:								
Motor standard:	IEC							
Motor type:	80A							
IE Efficiency class:	IE5							
Rated power - P2:	0.75 kW							
Power (P2) required by pump:	0.75 kW							
Mains frequency:	50 Hz							
Rated voltage:	1 x 200-240 V							



Company name: Created by: Phone:

		Date:	20/02/2018	
Description	Value			
Rated current:	4,70-3,90 A			
Cos phi - power factor:	0,99			
Rated speed:	360-4000 rpm			
Efficiency:	85,2%			
Motor efficiency at full load:	85.2 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor protec:	YES			
Motor No:	98248266			
Controls:				
Control panel:	Standard			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in			
Pressure sensor:	Y			
Others:				
Minimum efficiency index, MEI :	0.7			
Net weight:	23.3 kg			
Gross weight:	26.2 kg			
Shipping volume:	0.143 m ³			