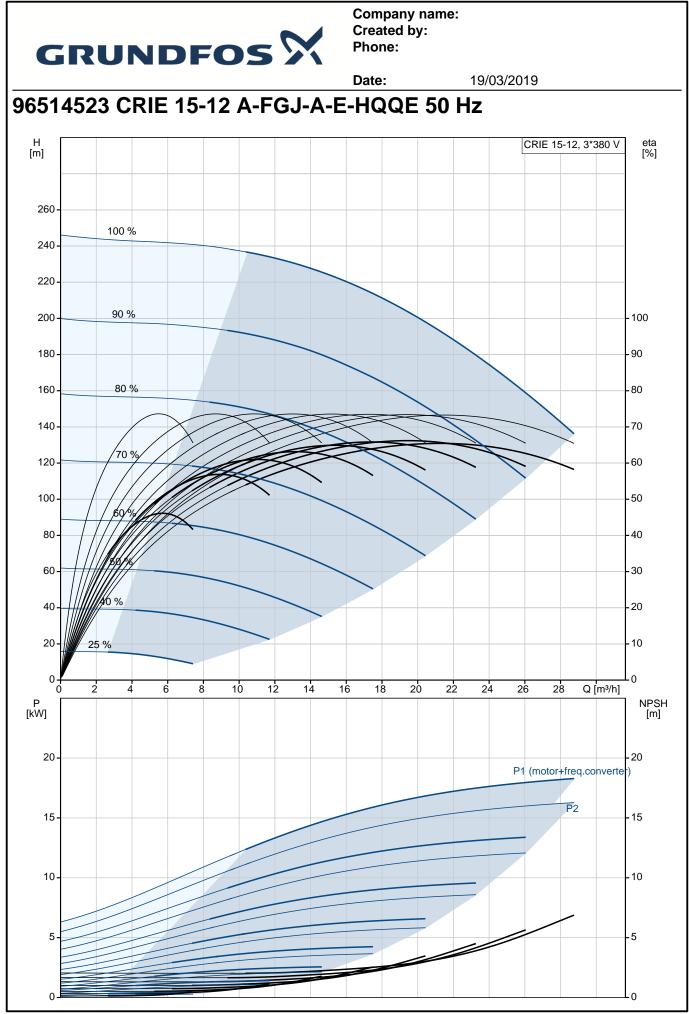
	GRUNDF	osX	Company name: Created by: Phone:				
			Date:	19/03/2019			
y.	Description						
1	CRIE 15-12 A-FGJ-A-E-HQG	)E					
	Product No.: 96514523						
	Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless 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".						
	The terminal box holds terminals for these connections: pump start/stop input (potential-free contact) remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA 10 V voltage supply for setpoint potentiometer, Imax = 5 mA three analog sensor inputs, 0-10 V, 0(4)-20 mA 24 V voltage supply for sensor, Imax = 40 mA one analog output three digital inputs two Pt100 inputs two Pt100 inputs two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready" RS-485 GENIbus connection interface for Grundfos CIM fieldbus module.						
	Controls:						
	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: Rated head:	20.5 m³/h 197.9 m					
	Pump orientation:	Vertical					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	HQQE					
		CE, EAC,ACS					
	Curve tolerance:	ISO9906:2012 3E	2				
			,				



Company name: Created by: Phone:

			Date:	19/03/2019
_	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: Flange size for motor:	300 lb FF300		
	Flange size for motor.	FF300		
	Electrical data:			
	Motor standard:	IEC		
	Motor type:	160LB		
	IE Efficiency class: Rated power - P2:	IE3 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: Enclosure class (IEC 34-5):	2 IP55		
	Insulation class (IEC 85):	F		
	Others: Minimum efficiency index, MEI â	‰¥· 0.70		
	Net weight:	223 kg		
	Gross weight:	274 kg		
	Shipping volume:	0.82 m <sup>3</sup>		
	Country of origin:	GB		
	Custom tariff no.:	84137075		
-1				



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## Company name: Created by: Phone:

		Date:	19/03/2019
Description	Value	H [m]	CRIE 15-12, 3*3
General information:			
Product name:	CRIE 15-12	260 -	100 %
	A-FGJ-A-E-HQQE	240 -	
Product No:	96514523	220 -	
EAN number:	5700396707877	200 -	90 %
Price:	9.968,00 GBP		
Technical:		180 -	
Pump speed on which pump data are based:	3540 rpm	160 -	80 %
Rated flow:	20.5 m³/h	140 -	
Rated head:	197.9 m	120 -	70%
Head max:	244 m	100 -	
Stages:	12		
-	12	80 -	
Impellers:	12	60 -	799%
Number of reduced-diameter impellers:	0	40 -	40 %
Low NPSH:	Ν	20 -	25 %
Pump orientation:	Vertical	o_	
Shaft seal arrangement:	Single	Ō	5 10 15 20 25 Q [r
Code for shaft seal:	HQQE	P [kW]	
Approvals on nameplate:	CE, EAC,ACS	20 <b>-</b>	
Curve tolerance:	ISO9906:2012 3B	20-	P1 (motor+fre
Pump version:	A		P
Model:	A	15 -	
Materials:			
Base:	Stainless steel	10 -	
Dase.	EN 1.4408		
		5-	
	AISI 316		
Impeller:	Stainless steel		
	EN 1.4301		
	AISI 304		308
Material code:	A		
Code for rubber:	E		
Bearing:	SIC		£ ↓
Installation:			
Maximum ambient temperature:	40 °C		
Maximum operating pressure:	25 bar		<u>G 1/2</u> <u>G 1/2</u>
Max pressure at stated temp:	25 bar / 120 °C		
•	25 bar / -20 °C		8 1 X G 1/2
Type of connection:	DIN / ANSI / JIS		
Size of inlet connection:	DN 50		
	2 inch		
Size of outlet connection:	DN 50		200 300 215
			248
Droppure roting for size course the	2 inch		
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		
Density:	998.2 kg/m <sup>3</sup>		17 Pr(02) A 17 Dr(02) A 16 Dr(02) M 14 Sensor insuz 14 Sensor insuz
Electrical data:	<b>.</b>		13 GMD 13 GMD 13 GMD 10
Motor standard:	IEC		1:0ghal input 2:0CB (mmn) 2:0CB (mmn) 2:0CB (mmn)
Motor type:	160LB	— lan 🖬	
IE Efficiency class:	IE3		
Rated power - P2:			6: CAD (hame) 5: -400 (hame) 5: -400 (hame) 5: -400 (hame)
	18.5 kW	( <b>1</b>	3: GND (trans) 2: Statistic
Power (P2) required by pump:	18.5 kW	1	(alalaizia)

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eta [%]

NPSH [m]

- 15

**-** 10

- 5

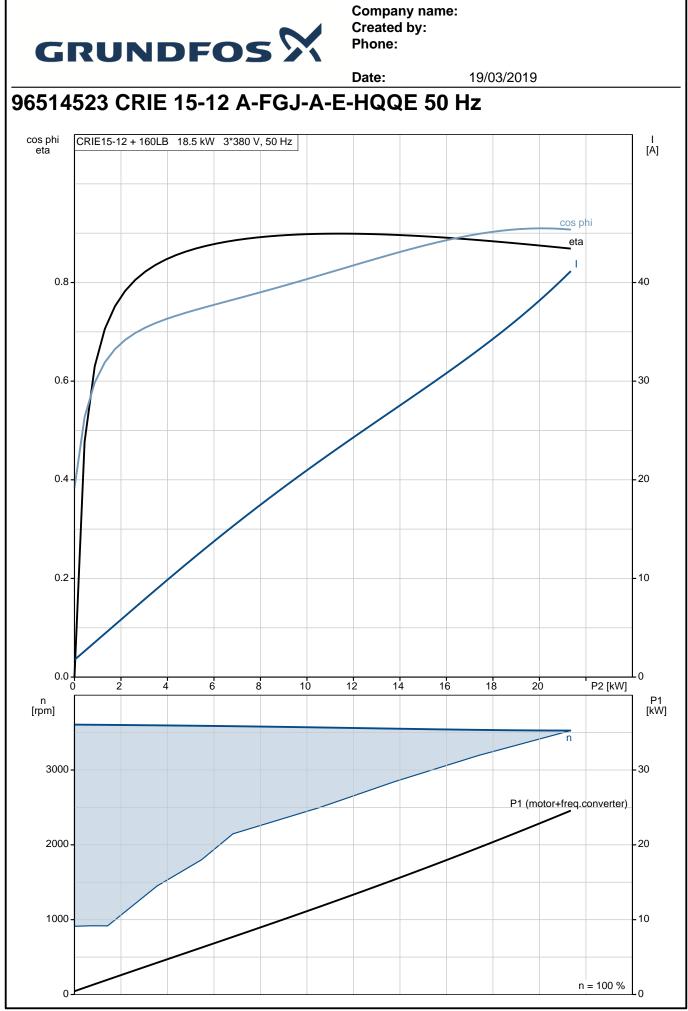
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P1 (motor+freq.converter) P2



Company name: Created by: Phone:

		Date:	
Description	Value		
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		
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:	223 kg		
Gross weight:	274 kg		
Shipping volume:	0.82 m <sup>3</sup>		
Country of origin:	GB		
Custom tariff no.:	84137075		



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