

19/03/2019

Qty. | Description

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CRIE 15-12 N-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96514592

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".

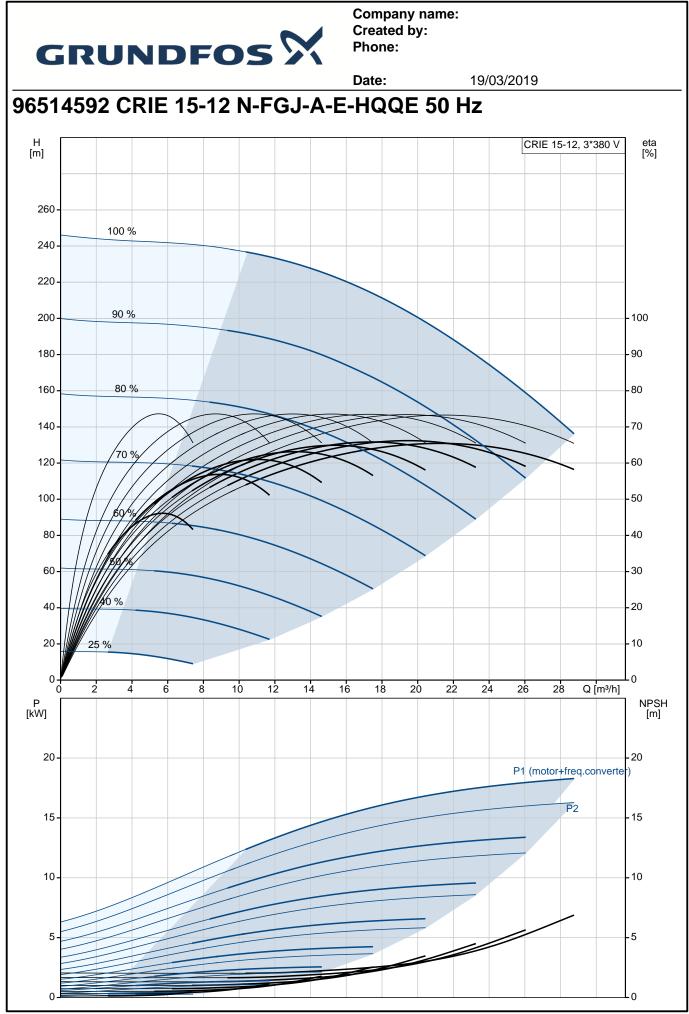
The terminal box holds terminals for these connections:

- 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; the factory-fitted pressure sensor is connected to one of these inputs
- 24 V voltage supply for sensor, Imax = 40 mA
- one analog output
- three digital 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 Y
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -20 120 °C ation: 20 °C 998.2 kg/m³
Technical:	990.2 Kg/III-



Description			
Pump speed on which pump da	ta are based: 3540 r	pm	
Rated flow:	20.5 m³/h		
Rated head:	197.9 m		
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		
Dase.			
	EN 1.4408		
	AISI 316		
Impeller:	Stainless steel		
	EN 1.4301		
	AISI 304		
Bearing:	SIC		
beamy.	510		
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 connections	DIN / ANSI / JIS		
Type of connection:			
Size of inlet connection:	DN 50		
	2 inch		
Size of outlet connection:	DN 50		
	2 inch		
Pressure rating for pipe connect			
	300 lb		
Flange rating inlet:			
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):	Г		
Others:			
Minimum efficiency index, MEI a	≥: 0.70		
Net weight:	223 kg		
Gross weight:			
	274 kg		
Shipping volume:	0.82 m ³		
Country of origin:	GB		
O	04407075		
Custom tariff no.:	84137075		



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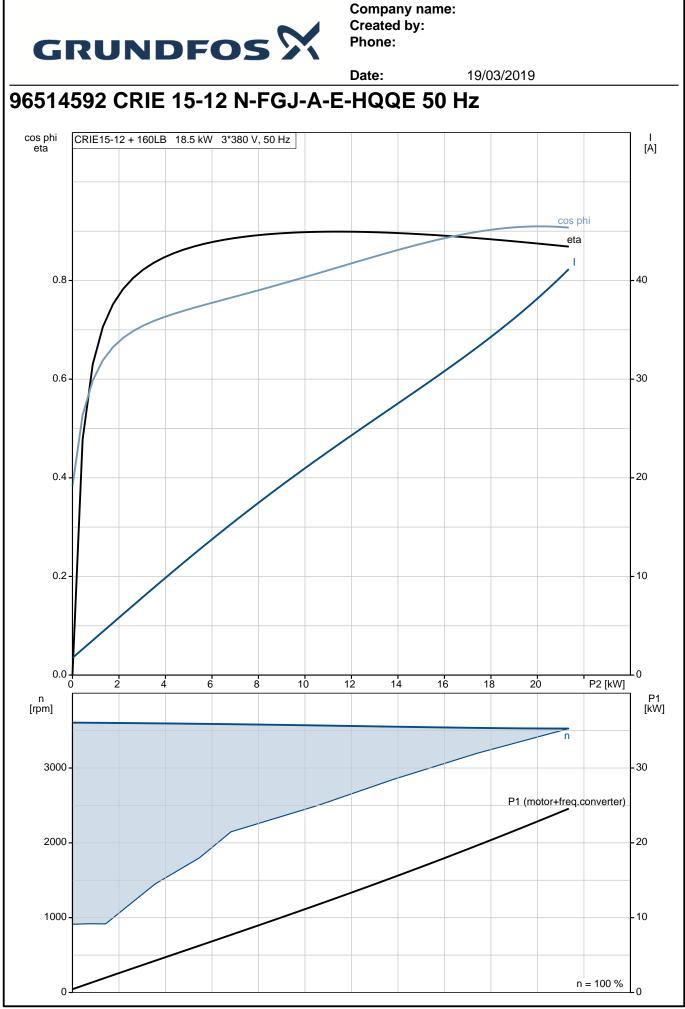
		н і		CRIE 15-12, 3*38	
Description	Value	[m]		UNE 13-12, 3 30	30 V
General information:		260 -			
Product name:	CRIE 15-12 N-FGJ-A-E-HQQE	240 -	100 %		
Product No:	96514592	220 -			
EAN number:	5700396709253		00.97		
Technical:		200 -	90 %		- 10
Pump speed on which pump data are based:	3540 rpm	180 - 160 -	80 %		- 90
Rated flow:	20.5 m³/h				
Rated head:	197.9 m	140 -			- 70
Head max:	244 m	120 -		LIN	- 60
Stages:	12	100 -			- 50
Impellers:	12	80 -			- 40
Number of reduced-diameter impellers:	0	60 -	1		- 30
Low NPSH:	Ν	40 -	40 %		- 20
Pump orientation:	Vertical	20 -	25 %		10
Shaft seal arrangement:	Single				
Code for shaft seal:	HQQE	0 <mark>-</mark>	5 10 1	15 20 25 Q [m	0 n³/h]
Approvals on nameplate:	CE, EAC,ACS	P [kW]			1
Curve tolerance:	ISO9906:2012 3B				
Pump version:	N	20 -		P1 (motor+free	q.convert
Model:	A			P2	
Materials:		15 -			- 15
Base:	Stainless steel				
	EN 1.4408	10 -			- 10
	AISI 316				
Impeller:	Stainless steel	5-			- 5
	EN 1.4301				
	AISI 304				_ _0
Material code:	A		308		
Code for rubber:	E		314		
Bearing:	SIC				
Installation:			22 24		
Maximum ambient temperature:	40 °C				
Maximum operating pressure:	25 bar				
Max pressure at stated temp:	25 bar / 120 °C		350 G 1/2 G 1/2		
,	25 bar / -20 °C			<u>× 21.8</u>	
Type of connection:	DIN / ANSI / JIS		8 1 X G 1/2		
Size of inlet connection:	DN 50				
	2 inch			8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Size of outlet connection:	DN 50		130		
	2 inch		200	120.5 215	
Pressure rating for pipe connection:	PN 25			248	
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	ķ ē			
Density:	998.2 kg/m ³	é	B		
Electrical data:	550.2 Ng/III-		10: Pt100 B 10: Pt100 A 17: Pt100 A 16: GND (frame)		
Motor standard:	IEC		15: 24V 14: Samor input2 13: GND 12: Analog output 15: Detail anot 4		
	160LB		1: Digital Input 3 1: Digital Input 3 1: Digital Input 3 2: CND (frama)		
Motor type:	IE3				
IE Efficiency class:					
Rated power - P2:	18.5 kW		6: GND (trame) 5: +10V		
Power (P2) required by pump:	18.5 kW		Caspon reput ScAD (tame) Scatilize		
Mains frequency:	50 Hz	L	ا لي		

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NPSH [m]



		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:	Y		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	223 kg		
Gross weight:	274 kg		
Shipping volume:	0.82 m ³		
Sales region:	Apreg		
Country of origin:	GB		
Custom tariff no.:	84137075		



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