

19/03/2019

Qty. | Description

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## CRIE 10-5 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99071467

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, permanent-magnet, synchronous motor.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

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 Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

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 has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LiqTec, dry-running protection sensor input
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

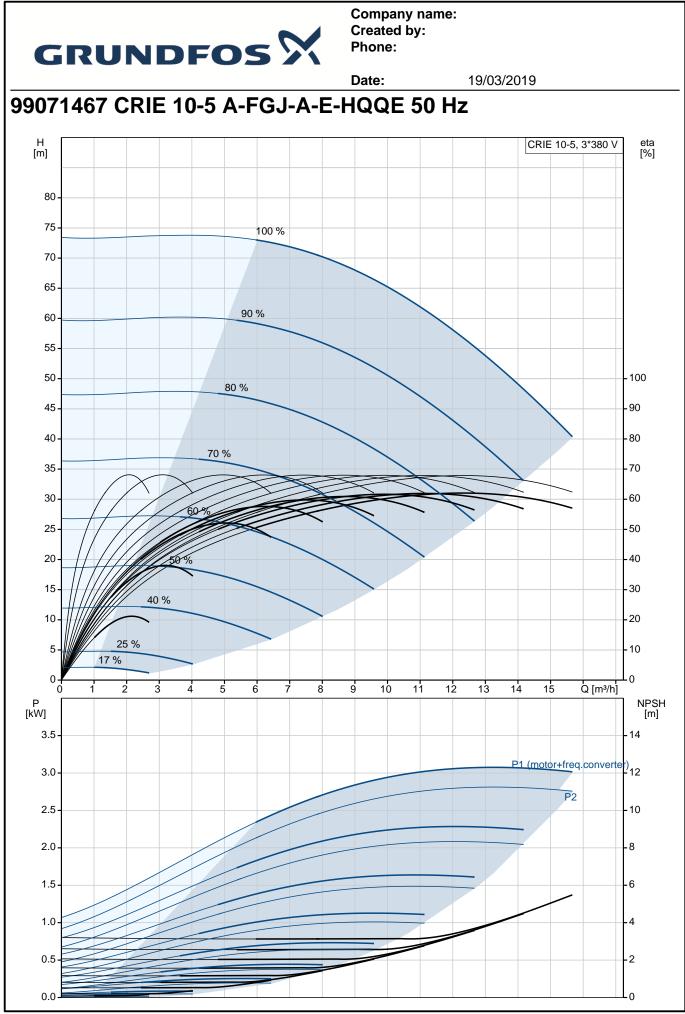
Controls:



			Date:	19/03/2019			
•	Description						
	Frequency converter:	Built-in					
	Pressure sensor:	Ν					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-20 120 °C					
	Liquid temperature during opera						
	Density:	998.2 kg/m³					
	Technical:						
	Pump speed on which pump data are based: 3514 rpm						
	Rated flow:	12.1 m <sup>3</sup> /h					
	Rated head:	58.5 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					
		EN 1.4408					
	lana a lla a	AISI 316					
	Impeller:	Stainless steel					
		EN 1.4301					
	Booring	AISI 304 SIC					
	Bearing:	510					
	Installation:						
	Maximum ambient temperature:	50 °C					
	Maximum operating pressure:	16 bar					
	Max pressure at stated temp:	16 bar / 120 °C					
		16 bar / -20 °C					
	Type of connection:	DIN / ANSI / JIS					
	Size of inlet connection:	DN 40					
		1 1/2 inch					
	Size of outlet connection:	DN 40					
		1 1/2 inch					
	Pressure rating for pipe connect						
	Flange rating inlet:	300 lb					
	Flange size for motor:	FT130					
	Electrical data: Motor standard:	IEC					
	Motor type:	100LA					
	IE Efficiency class:	IE5					
	Rated power - P2:	3 kW					
	Power (P2) required by pump:	3 kW					
	Mains frequency:	3 KW 50 Hz					
	Rated voltage:	3 x 380-500 V					
	Rated current:	5.80-4.80 A					
	Cos phi - power factor:	0.91-0.86					
	Rated speed:	360-4000 rpm					
	Efficiency:	90.7%					
	Motor efficiency at full load:	90.7% 90.7 %					
	Enclosure class (IEC 34-5):	90.7 % IP55					
	Insulation class (IEC 85):	IP55 F					
	111301alion 01855 (IEC 03).	I					



			Date:	19/03/2019		
.	Description		Date.	19/03/2019		
/.	Description					
	Minimum efficiency index, Net weight:	55 kg				
	Gross weight:	83 kg				
	Shipping volume:	0.37 m <sup>3</sup>				
	Country of origin:	GB				
	Custom tariff no .:	84137075				



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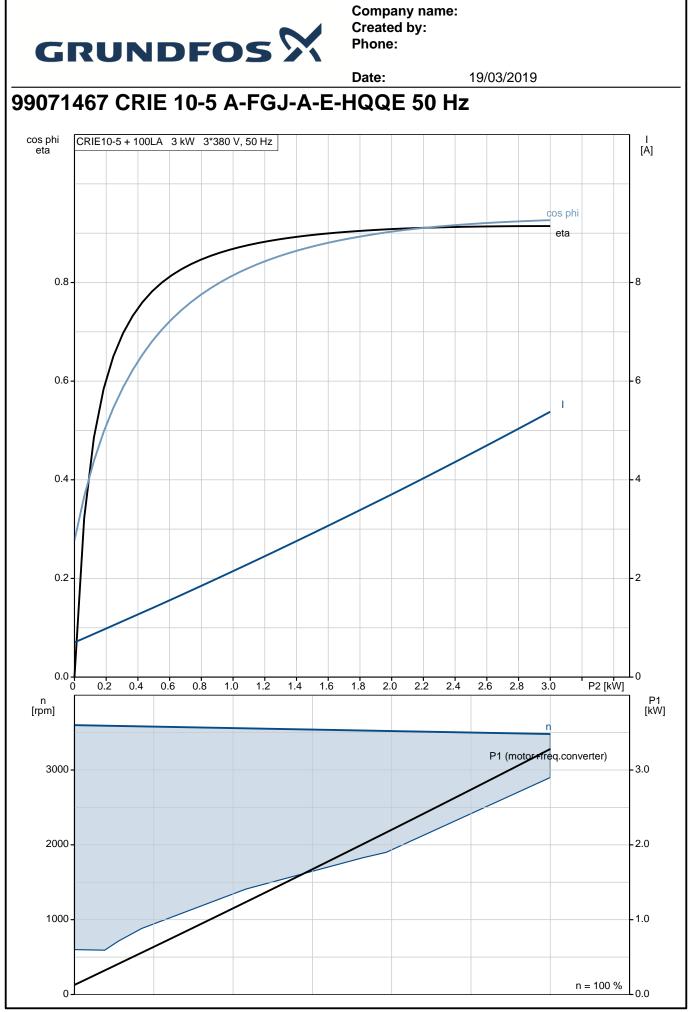


		Date:		19/03	/2019			
Description	Value	H [m]				CRIE 1	0-5, 3*380	∨ eta [%]
General information:	. 414 4	80 -						[,3]
	CRIE 10-5			100.01				
Product name:	A-FGJ-A-E-HQQE	75 -		100 %				
Product No:	99071467	70 -						
EAN number:	5712606191925	65 -		90 %				
Price:	3.065,00 GBP	60 -		90 %				_
Technical:		55 -						_
Pump speed on which pump data are		50 -	8	0 %				- 100
based:	3514 rpm	45 -				$\mathbf{i}$		- 90
Rated flow:	12.1 m³/h	40 -	70	0/				- 80
Rated head:	58.5 m	35 -	70	70				- 70
Head max:	73.8 m	30 -	(XX	>>>				- 60
Stages:	5	25 -		Ţ				- 50
Impellers:	5	20 -	150%					40
Number of reduced-diameter impellers:	0	—						- 30
Low NPSH:	N	15 -	40 %					
Pump orientation:	Vertical	10-	25 %					- 20
Shaft seal arrangement:	Single	5-	17 %					- 10
Code for shaft seal:	HQQE	0	2 4	6 8	3 10	12	14 Q [m <sup>3</sup> /	_⊥o hl
	CE, EAC,ACS	P [kW]						NPS
Approvals on nameplate: Curve tolerance:		[kW]						[m
	ISO9906:2012 3B	3.0 -				P1 (m	notor+freq.o	converter)
Pump version:	A						P2	
Model:	A	2.5 -						- 10
Materials:	<b>•</b> • • • •	2.0 -						- 8
Base:	Stainless steel	1.5 -						-6
	EN 1.4408	1.0-				_		4
	AISI 316							
Impeller:	Stainless steel	0.5 -						-2
	EN 1.4301	0.0						0
	AISI 304	1						
Material code:	A		201					
Code for rubber:	E	r						
Bearing:	SIC							
Installation:		334	4					
Maximum ambient temperature:	50 °C							
Maximum operating pressure:	16 bar							
Max pressure at stated temp:	16 bar / 120 °C		G 1/2 g 4 4 3	G 1/2				
	16 bar / -20 °C			<u>4 x 18</u>	5 x 23.5			
Type of connection:	DIN / ANSI / JIS		1 X G 1/2		T I			
Size of inlet connection:	DN 40			1		2 23		
	1 1/2 inch			<u></u>				
Size of outlet connection:	DN 40		130		·      4	2 05	13	
	1 1/2 inch		280	<b>*</b>		15	_	
Pressure rating for pipe connection:	PN 25				<u> </u>	······		
Flange rating inlet:	300 lb							
Flange size for motor:	FT130							
Connect code:	FGJ			LI				
Liquid:	1.00			u 1				
Pumped liquid:	Water		Ø 	⊕				
			- 13 - 28 - 28					
_iquid temperature range:	-20 120 °C			and				
Liquid temperature during operation:	20 °C			0H/0C2 P1100/1000 P1100/1000				
Density:	998.2 kg/m <sup>3</sup>		<u> </u>	AD GND AD No				
Electrical data:				Ligfec GND				
Notor standard:	IEC			Ligrec DEXIDC1 Al1				
Motor type:	100LA	- <u>ar</u> e a	┈╡╡┈┈┙╡┝┌╧╾╴	DH +5 V GND				
E Efficiency class:	IE5		х. У. Ж	usalibus A GENIbus Y GENIbus B				
Rated power - P2:	3 kW		3 75 8	940 +04 V +04 V				
Power (P2) required by pump:	3 kW		╺╸╺┈┈╈╺┥╎┌╌╴╝	na v GND GDS TX GDS RV				
Mains frequency:	50 Hz	L		A12				

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Date: 19/03/2019 Description Value 3 x 380-500 V Rated voltage: Rated current: 5.80-4.80 A Cos phi - power factor: 0.91-0.86 Rated speed: 360-4000 rpm Efficiency: 90.7% Motor efficiency at full load: 90.7 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F YES Motor protec: Motor No: 98971049 Controls: Control panel: Standard Function Module: FM300 - Advanced Built-in Frequency converter: Ν Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 55 kg Gross weight: 83 kg Shipping volume: 0.37 m<sup>3</sup> Country of origin: GB Custom tariff no .: 84137075



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