

19/03/2019

Qty. | Description

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CRIE 10-6 A-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99071469

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.

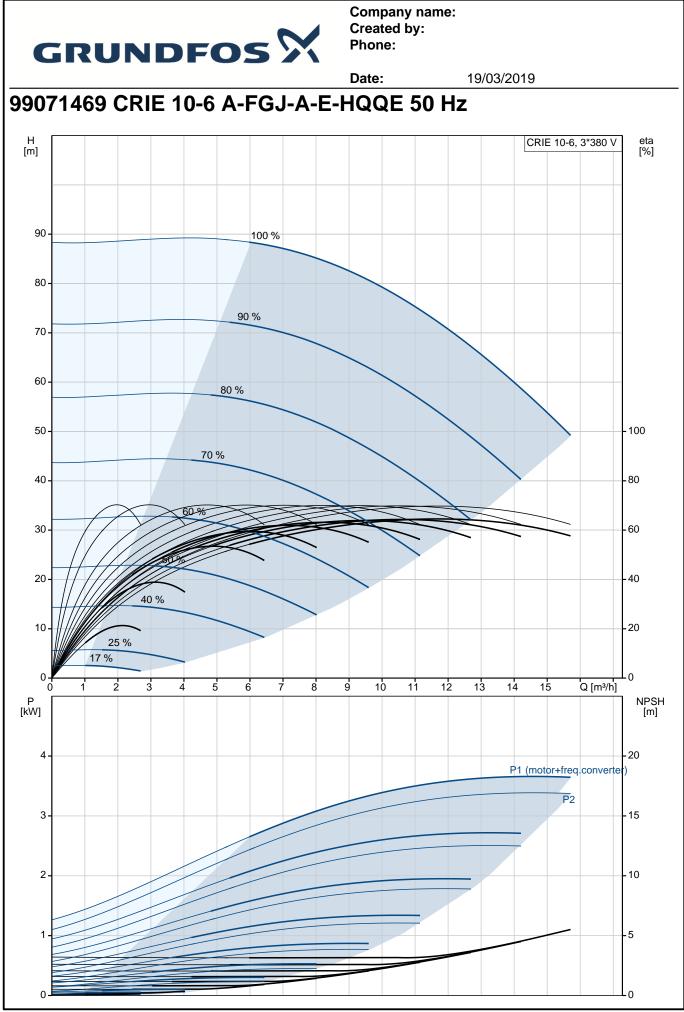
Controls:



Description		Date:	19/03/2019	
-				
Frequency converter:	Built-in			
Pressure sensor:	Ν			
Liquid				
Liquid: Pumped liquid:	Water			
Liquid temperature range:	-20 120 °C			
Liquid temperature during operat				
Density:	998.2 kg/m ³			
Density.	550.2 kg/m			
Technical:				
Pump speed on which pump data	a are based: 3514 r	om		
Rated flow:	12.1 m³/h			
Rated head:	71.1 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			
Installation:				
Maximum ambient temperature:				
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 connecti				
Flange rating inlet:	300 lb			
Flange rating inlet: Flange size for motor:	300 lb			
Flange rating inlet: Flange size for motor: Electrical data:	300 lb FT130			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard:	300 lb FT130 IEC			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type:	300 lb FT130 IEC 112MC			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class:	300 lb FT130 IEC 112MC IE5			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	300 lb FT130 IEC 112MC IE5 4 kW			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Cos phi - power factor:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87 360-4000 rpm			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87 360-4000 rpm 92.2%			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87 360-4000 rpm 92.2% 92.2 %			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5):	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87 360-4000 rpm 92.2% 92.2 % IP55			
Flange rating inlet: Flange size for motor: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	300 lb FT130 IEC 112MC IE5 4 kW 4 kW 50 Hz 3 x 380-500 V 7.60-6.20 A 0.92-0.87 360-4000 rpm 92.2% 92.2 %			



	GRUNDFOS	5 > \	Phone:	
			Date:	19/03/2019
Qty.	Description			
	Minimum efficiency index, MEI ≥:Net weight:59 kgGross weight:87 kgShipping volume:0.37Country of origin:GBCustom tariff no.:8413)) m ³		



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		Date:	19/03/2019		
Description	Value	H [m]		CRIE 10-6, 3*3	80 V eta [%]
General information:					
Product name:	CRIE 10-6 A-FGJ-A-E-HQQE	90 -	100 %		
Product No:	99071469	80 -			
EAN number:	5712606191963	80-	00.01		
Price:	3.709,00 GBP	70 -	90 %		
Technical:					
Pump speed on which pump data are based:	3514 rpm	60 -	80 %		
Rated flow:	12.1 m³/h	50 -	70 %		- 100
Rated head:	71.1 m	40 -	10 %		- 80
Head max:	88.8 m	40-	R1.96		
Stages:	6	30 -			- 60
Impellers:	6				
Number of reduced-diameter impellers:	0	20 -	40 %		- 40
Low NPSH:	Ν		40 %		
Pump orientation:	Vertical	10-	25 %		- 20
Shaft seal arrangement:	Single	0	70		
Code for shaft seal:	HQQE	0 2	2 4 6 8	10 12 14 Q [r	n³/h]
Approvals on nameplate:	CE, EAC,ACS	P [kW]			NPSI [m]
Curve tolerance:	ISO9906:2012 3B	4 -		P1 (motor+fre	-20
Pump version:	А				
Model:	А	3-		P	- 15
Materials:					
Base:	Stainless steel	2 -			- 10
	EN 1.4408				
	AISI 316	1-			- 5
Impeller:	Stainless steel				
	EN 1.4301	0			0
	AISI 304	3			
Material code:	A		201		
Code for rubber:	E				
Bearing:	SIC				
Installation:		ğ			
Maximum ambient temperature:	50 °C				
Maximum operating pressure:	16 bar				
Max pressure at stated temp:	16 bar / 120 °C		<u>G 1/2</u> G 1/2		
	16 bar / -20 °C			23.5	
Type of connection:	DIN / ANSI / JIS	4	1 X G 1/2		
Size of inlet connection:	DN 40	I. I		E E	
	1 1/2 inch	80			
Size of outlet connection:	DN 40		200	42 105 215	
	1 1/2 inch		l <u>, 28∪</u> ,	248	
Pressure rating for pipe connection:	PN 25				
Flange rating inlet:	300 lb				
Flange size for motor:	FT130		÷.		
Connect code:	FGJ				
Liquid:		PE	ğe		
Pumped liquid:	Water		2 2 2 2		
Liquid temperature range:	-20 120 °C				
Liquid temperature during operation:	20 °C	Ö	11 040Cz 11 040Cz 12 P1301300		
Density:	998.2 kg/m³				
Electrical data:			1 80 1 kifee 20 kikb		
Motor standard:	IEC	ð			
Motor type:	112MC				
IE Efficiency class:	IE5		A GENbas A V GENbas V R GENbas R		
Rated power - P2:	4 kW		3 GND 15 44V 8 44V		
Dower (D2) required by nump	4 kW				
Power (P2) required by pump: Mains frequency:		•			

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Date: 19/03/2019 Description Value 3 x 380-500 V Rated voltage: Rated current: 7.60-6.20 A Cos phi - power factor: 0.92-0.87 Rated speed: 360-4000 rpm Efficiency: 92.2% Motor efficiency at full load: 92.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F YES Motor protec: Motor No: 98971050 Controls: Control panel: Standard Function Module: FM300 - Advanced Built-in Frequency converter: Ν Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 59 kg Gross weight: 87 kg Shipping volume: 0.37 m³ Country of origin: GB Custom tariff no .: 84137075

