

19/03/2019

Qty. | Description

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



Note! Product picture may differ from actual product

Product No.: 99071475

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; the factory-fitted pressure sensor is connected to one of these inputs
- 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.

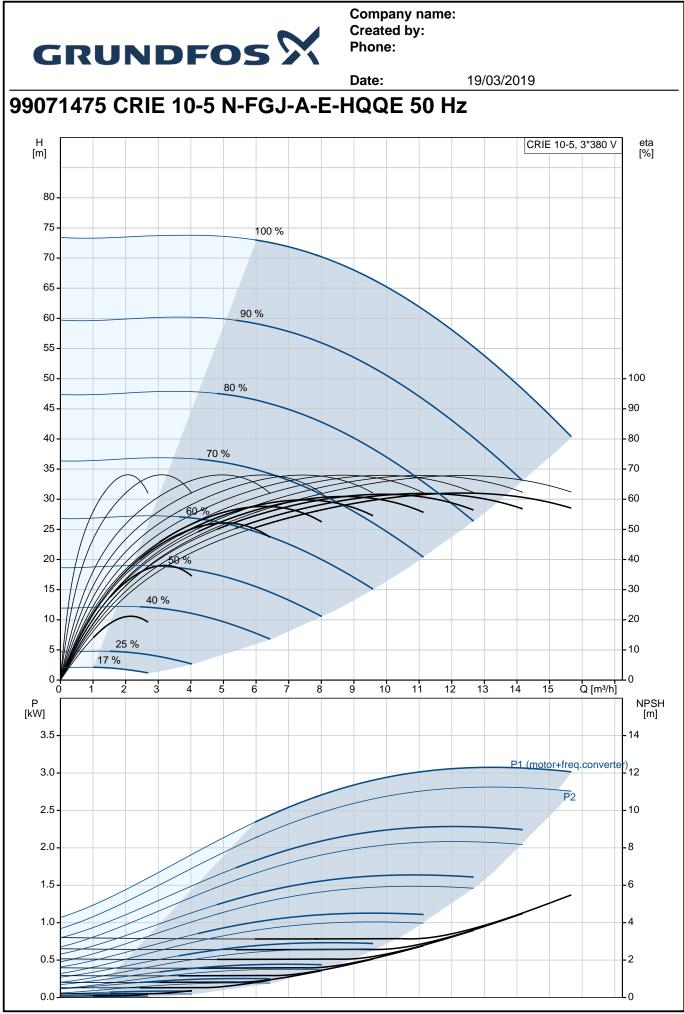
Controls:



Description Frequency converter: Buill-in Pressure sensor: Y Liquid temperature range: -20120 °C Liquid temperature range: -20120 °C Density: 982.2 kg/m³ Technical: Pump speed on which pump data are based: 3514 rpm Patch indit Pump speed on which pump data are based: 3514 rpm Rated flow: 12.1 m%h Rated flow: Rated flow: 12.1 m%h Rated flow: Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: EC, EAC, ACS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 Impelier: Stainless steel EN 1.4301 Alsi 304 Bearing: SIC Installation: Max pressure at stated temp: 16 bar / 120 °C Maximum operating pressure: 16 bar / 120 °C Type of connection: DN 40 Size of inite connection: DN 40 11/2 inch Size of inite connection: DN 40 Size of inite connection: DN 40 11/2 inch Size of inite connection:							
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Maximum ambient temperature: $50 ^\circ C$ Maximum operating pressure: $16 bar / 120 ^\circ C$ Max pressure at stated temp: $16 bar / -20 ^\circ C$ Type of connection:DIN / ANSI / JISSize of inlet connection:DN 40 $11/2$ inchSize of outlet connection:DN 40 $11/2$ inchPressure rating for pipe connection:PN 25Flange rating inlet: $300 lb$ Flange size for motor:FT130Electrical data:Motor standard:IECMotor standard:IE5Rated power - P2: $3 kW$ Power (P2) required by pump: $3 kW$ Mains frequency: $50 Hz$ Rated voltage: $3 x 380 - 500 V$ Rated outrent: $5 80 - 4.80 A$ 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 85): F	In	stallation:					
Maximum operating pressure:16 barMax pressure at stated temp:16 bar / 120 °CMax pressure at stated temp:16 bar / 120 °C16 bar / -20 °C16 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 4011/2 inch11/2 inchSize of outlet connection:DN 4011/2 inch11/2 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT 30Electrical data:IECMotor standard:IECMotor type:100LAIE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			50 °C				
Max pressure at stated temp:16 bar / 120 °C 16 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 40 1 1/2 inchSize of outlet connection:DN 40 1 1/2 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT 130Electrical data:Motor standard:IEC 100LAIE Efficiency class:IE5 8 kWPower (P2) required by pump:3 kWMains frequency:50 Hz 8 00-4000 rpmRated power factor:0.91-0.86 8 00-4000 rpmRated speed:360-4000 rpmEfficiency at full load:90.7 % 90.7 %Motor efficiency at full load:90.7 % 90.7 %							
16 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 40 1 1/2 inchSize of outlet connection:DN 40 1 1/2 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:IEC Motor type:Motor standard:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:091-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Type of connection:DIN / ANSI / JISSize of inlet connection:DN 40 1 1/2 inchSize of outlet connection:DN 40 1 1/2 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:Motor standard:IEC 100LAIE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 345):F							
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Flange size for motor:FT130Electrical data:Motor standard:IECMotor type:100LAIE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
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Motor standard:IECMotor type:100LAIE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F		lange size for motor.	F1130				
Motor standard:IECMotor type:100LAIE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F	F	lectrical data:					
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IE Efficiency class:IE5Rated power - P2:3 kWPower (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
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Power (P2) required by pump:3 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			-				
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Rated voltage:3 x 380-500 VRated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Rated current:5.80-4.80 ACos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Cos phi - power factor:0.91-0.86Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Rated speed:360-4000 rpmEfficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Efficiency:90.7%Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Motor efficiency at full load:90.7 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			•				
Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F							
Insulation class (IEC 85): F							
	In	sulation class (IEC 85):	F				



			Date:	19/03/2019			
.	Description		Date.	19/03/2019			
/.	Description Minimum efficiency index, MEI ≥: 0.70						
	Net weight:	55 kg					
	Gross weight:	83 kg					
	Shipping volume:	0.37 m ³					
	Country of origin:	GB					
	Custom tariff no .:	84137075					



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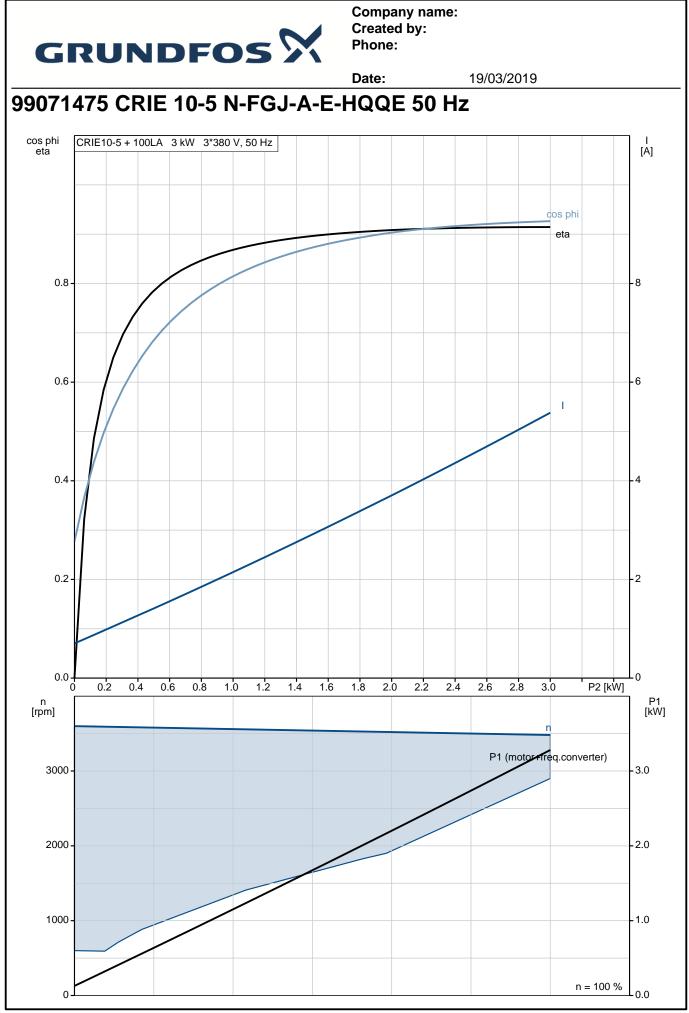


		Date:	19/03/2	019	
Description	Value	H [m]		CRIE 10-5, 3*380 V	eta [%]
General information:		80 -			
Product name:	CRIE 10-5 N-FGJ-A-E-HQQE	75 -	100 %		
Product No:	99071475			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
EAN number:	5712606192106	65 -			
Price:	3.230,00 GBP	60 -	90 %		
Technical:	3.230,00 GBP	55 -			
Pump speed on which pump data are		50 -	80 %		- 100
based:	3514 rpm	45 -	00 //3		- 90
Rated flow:	12.1 m³/h	40 -	70 %		- 80
Rated head:	58.5 m	35 -	XX	the	- 70
Head max:	73.8 m	30 -	60 %		- 60
Stages:	5	25 -			- 50
Impellers:	5	20 - //	50%		- 40
Number of reduced-diameter impellers:	0	15 -	40 %		- 30
Low NPSH:	Ν	10 -	40 %		- 20
Pump orientation:	Vertical	5-	25 %		- 10
Shaft seal arrangement:	Single		17 %		
Code for shaft seal:	HQQE	0	2 4 6 8	10 12 14 Q [m ³ /h]	-0
Approvals on nameplate:	CE, EAC,ACS	P [kW]			NPS
Curve tolerance:	ISO9906:2012 3B				[m
Pump version:	N	3.0 -		P1 (motor+freq.com	verter) 12
Model:	A	2.5 -		P2	- 10
	A				
Materials:	Otobolar t!	2.0 -			-8
Base:	Stainless steel	1.5 -	1///		-6
	EN 1.4408	1.0			-4
	AISI 316				
Impeller:	Stainless steel	0.5 -			-2
	EN 1.4301	0.0			Lo
	AISI 304	3			
Material code:	А		201		
Code for rubber:	E		191.3		
Bearing:	SIC				
Installation:		34			
Maximum ambient temperature:	50 °C				
Maximum operating pressure:	16 bar	— <u> </u>			
Max pressure at stated temp:	16 bar / 120 °C		<u>G 1/2</u> G 1/2		
Processes at oracloa tomp.	16 bar / -20 °C			1.5	
Type of connection:	DIN / ANSI / JIS		1 X G 1/2		
Size of inlet connection:	DIN / ANSI / JIS DN 40				
	-				
	1 1/2 inch			42	
Size of outlet connection:	DN 40		200	4 x 13	
	1 1/2 inch		¥H	248	
Pressure rating for pipe connection:	PN 25				
Flange rating inlet:	300 lb				
Flange size for motor:	FT130	8 .	т		
Connect code:	FGJ	u			
Liquid:					
- Pumped liquid:	Water				
Liquid temperature range:	-20 120 °C				
Liquid temperature during operation:	20 °C	č			
Density:	998.2 kg/m ³		110 Prisoriana 117 Prisoriana 117 Prisoriana 112 AO		
Electrical data:	555.2 Ng/III	-au-\$207			
Motor standard:	IEC		21 Leftec 23 Gab 22 Leftec		
		Street Land			
Motor type:	100LA				
IE Efficiency class:	IE5		Y GONDARY B GONDARB		
Rated power - P2:	3 kW		15 +34V 1 +34V 20 +34V		
Power (P2) required by pump:	3 kW				
Mains frequency:	50 Hz				

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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: Υ Pressure sensor: Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 55 kg Gross weight: 83 kg Shipping volume: 0.37 m³ Country of origin: GB Custom tariff no .: 84137075



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