

26/11/2019

Qty. | Description

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CRNE 10-6 N-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99071506

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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:

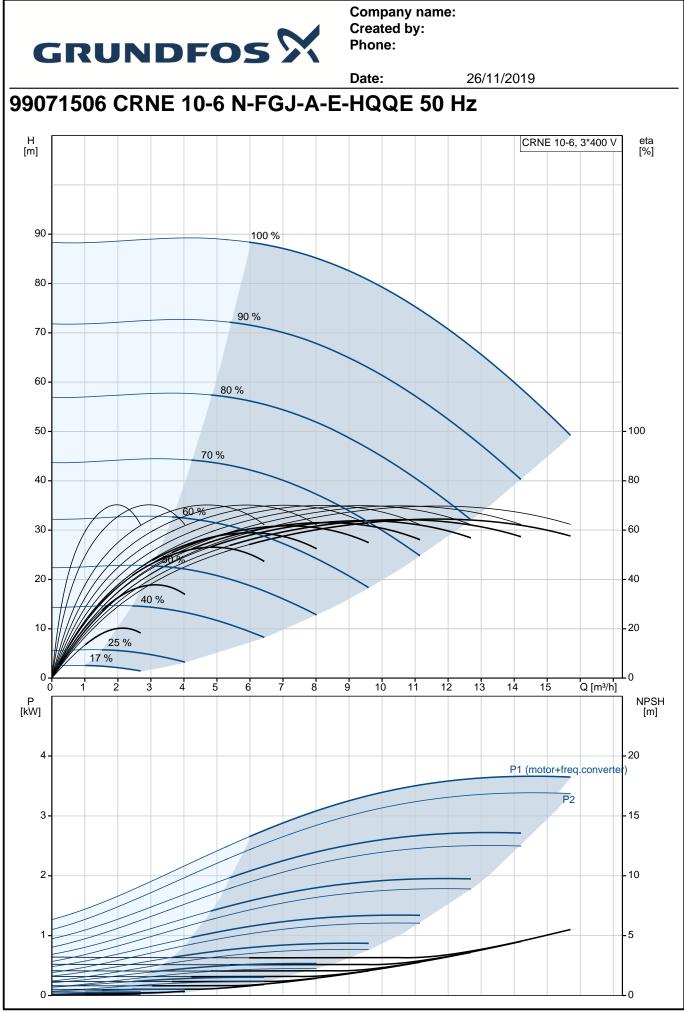
- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- · two configurable digital inputs or open-collector 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.



DescriptionControls: Frequency converter:Built-in Pressure sensor:YesLiquid importative range: 20:0 Density at selected liquid temperature: 20:0 Density at selected liquid temperature: 20:0 Selected liquid temperature: 20:0 Dump orientation: Vortical Shaft seal arangement: Single Code for shaft seal: CE, EAC, ACS Curve tolerance: DEN 14:408 Approvals on nameplate: DEN 14:408 Alsi 316 Density: Density 316 Base: Density: Stainless steel EN 14:408 Alsi 316 Density: Density 316 Density:<			
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Installation: Maximum ambient temperature: 50 °C 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 outlet connection: DN 40 Size of outlet connection: DN 40 Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT130 Electrical data: IEC Motor standard: IE5 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V 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 % Notor efficiency at full load: 92.2 % Inclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Bearing:		
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Maximum operating pressure:25 barMax pressure at stated temp:25 bar / 120 °C 25 bar / 20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 x 60-4000 rpmEfficiency:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Insulation class (IEC 34-5):IP55Insulation class (IEC 85):F			
Max pressure at stated temp: $25 \text{ bar} / 120 \text{ °C}$ $25 \text{ bar} / -20 \text{ °C}$ Type of connection:DIN / ANSI / JISSize of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130 Electrical data: Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency at full load:92.2%Motor efficiency at full load:92.2%Motor efficiency at full load:92.2%Insulation class (IEC 85):F	Maximum ambient temperature:	50 °C	
25 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT 130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Insulation class (IEC 85):F	Maximum operating pressure:	25 bar	
25 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT 130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Insulation class (IEC 85):F	Max pressure at stated temp:	25 bar / 120 °C	
Size of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F		25 bar / -20 °C	
Size of inlet connection:DN 40Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F	Type of connection:	DIN / ANSI / JIS	
Size of outlet connection:DN 40Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130 Electrical data: Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 485):F		DN 40	
Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FT130 Electrical data: Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			
Flange rating inlet:300 lbFlange size for motor:FT130Electrical data:Motor standard:IECMotor standard:IECIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			
Flange size for motor:FT130Electrical data:Motor standard:IECMotor type:112MCIE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			
Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V 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			
Motor standard: IEC Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V 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			
Motor type: 112MC IE Efficiency class: IE5 Rated power - P2: 4 kW Power (P2) required by pump: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V 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		IEC	
IE Efficiency class:IE5Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			
Rated power - P2:4 kWPower (P2) required by pump:4 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:7.60-6.20 ACos phi - power factor:0.92-0.87Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F			
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Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V 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			
Rated voltage: 3 x 380-500 V 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			
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			
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			
Rated speed:360-4000 rpmEfficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F		7.60-6.20 A	
Efficiency:92.2%Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F	Cos phi - power factor:	0.92-0.87	
Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F	Rated speed:	360-4000 rpm	
Motor efficiency at full load:92.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):F	Efficiency:	92.2%	
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F		92.2 %	
Insulation class (IEC 85): F			
		3037 1000	



	GRUNDFO		Data: 26/44/2040		
			Date:	26/11/2019	
/.	Description				
	Minimum efficiency index, MEI	: 0.70			
	Net weight:	60 kg			
	Gross weight:	88 kg			
	Shipping volume:	0.37 m ³			
	Country of origin: Custom tariff no.:	GB			
	Custom tariff no.:	84137075			



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		Date:	26/11/20	519	
Description	Value	H [m]		CRNE 10-6, 3*400	V eta [%]
General information:					
Product name:	CRNE 10-6 N-FGJ-A-E-HQQE	90 -	100 %		_
Product No:	99071506				
EAN number:	5712606192724	80 -			
	5712606192724	70 -	90 %		
Price:	4.065,00 GBP				
Technical:		60 -	80 %		_
Pump speed on which pump data are based:	3514 rpm	50 -			- 100
Rated flow:	12.1 m³/h	40 -	70 %		- 80
Rated head:	71.1 m	40 -			- 80
Head max:	88.8 m	30 - //			60
Stages:	6				
Impellers:	6	20 - ////			- 40
Number of reduced-diameter impellers:	0	10 -	40 %		- 20
Low NPSH:	No	17	%		
Pump orientation:	Vertical		2 4 6 8	10 12 14 Q [m³/	⊥ 0 'h]
Shaft seal arrangement:	Single	P [kW]			NP
Code for shaft seal:	HQQE				[n
Approvals on nameplate:	CE, EAC,ACS	4 -		P1 (motor+freq.	converter)
Curve tolerance:	ISO9906:2012 3B			P2	
Pump version:	N	3-			- 15
Model:	A				
Materials:		2-			- 10
Base:	Stainless steel	/			_
2000.	EN 1.4408	1-			- 5
	AISI 316				
Impeller:	Stainless steel				 0
	EN 1.4401				
	AISI 316		201		
Material code:	A				
Code for rubber:	E				
Bearing:	SIC	33			
Installation:	010				
Maximum ambient temperature:	50 °C				
Maximum operating pressure:	25 bar			_	
Max pressure at stated temp:	25 bar / 120 °C	498	4 x 18.5 x 23		
max pressure at stated temp.	25 bar / -20 °C				
Type of connection:	DIN / ANSI / JIS				
Size of inlet connection:	DN 40			42	
Size of outlet connection:	DN 40		200 280	105 215	
Pressure rating for pipe connection:	DN 40 PN 25			248	
Flange rating inlet:	300 lb				
Flange size for motor:	500 lb FT130				
Connect code:	FGJ		<u> </u>		
Liquid:	1.00				
Pumped liquid:	Water	n			
	-20 120 °C				
Liquid temperature range:	-20 120 °C 20 °C				
Selected liquid temperature:		Ö			
Density at selected liquid temperature: Electrical data:	998.2 kg/m³				
Motor standard:	IEC	مىن			
Motor type:	112MC	<u>ar</u> ¢a <u>r</u> ¢ e			
IE Efficiency class:	IE5		A GENEAR V GENEAR V GENEAR V GENEAR K		
Rated power - P2:	4 kW		3 GND 151 -34 V 8 -34 V 44 V 44 V		
Power (P2) required by pump:	4 kW				
Mains frequency:	50 Hz				

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NPSH [m]



		Date:	
Description	Value		
Rated voltage:	3 x 380-500 V		
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		
Motor protec:	YES		
Motor No:	98971050		
Controls:			
Control panel:	Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	Yes		
Others:			
Minimum efficiency index, MEI :	0.70		
Net weight:	60 kg		
Gross weight:	88 kg		
Shipping volume:	0.37 m ³		
Country of origin:	GB		
Custom tariff no.:	84137075		

