

19/03/2019

Qty. | Description

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CRIE 1-27 N-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99072123

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.

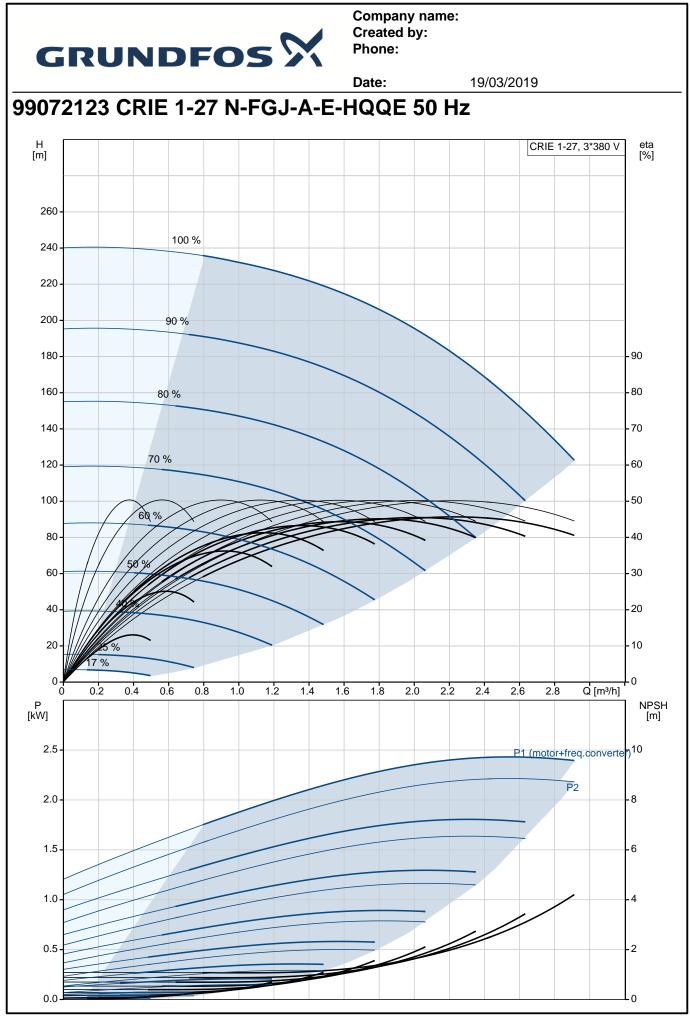
Controls:



Description		Date:	19/03/2019
Frequency converter:	Built-in		
Pressure sensor:	Y		
Linuid			
Liquid: Pumped liquid:	Matar		
	Water -20 120 °C		
Liquid temperature range: Liquid temperature during opera			
Density:	998.2 kg/m ³		
Density.	990.2 Kg/IIIs		
Technical:			
Pump speed on which pump dat	a are based: 3514 rp	m	
Rated flow:	2.2 m³/h		
Rated head:	187.8 m		
Pump orientation:	Vertical		
Shaft seal arrangement:	Single		
Code for shaft seal:	HQQE		
Approvals on nameplate:	CE, EAC,ACS		
Curve tolerance:	ISO9906:2012 3B		
Curve Iolerance.	1309900.2012 3D		
Materials:			
Base:	Stainless steel		
	EN 1.4408		
	AISI 316		
Impeller:	Stainless steel		
•	EN 1.4301		
	AISI 304		
Bearing:	SIC		
, C			
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 inlet connection:	DN 25/32		
	1 1/4 inch		
Size of outlet connection:	DN 25/32		
	1 1/4 inch		
Pressure rating for pipe connect			
Flange rating inlet:	300 lb		
Flange size for motor:	FT130		
5			
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:	50 Hz		
Rated voltage:	3 x 380-500 V		
Raleu vollage.	5.80-4.80 A		
Rated current:			
Rated current:	0.91-0.86		
Rated current: Cos phi - power factor:	0.91-0.86 360-4000 rpm		
Rated current: Cos phi - power factor: Rated speed:	360-4000 rpm		
Rated current: Cos phi - power factor: Rated speed: Efficiency:	360-4000 rpm 90.7%		
Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	360-4000 rpm 90.7% 90.7 %		
Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5):	360-4000 rpm 90.7% 90.7 % IP55		
Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load:	360-4000 rpm 90.7% 90.7 %		



A Description Minimum efficiency index, MEI #%-X* 0.70 Net weight: 50.7 kg Gross weight: 71.7 kg Shipping volume: 0.285 m ³ Country of origin: GB Custor of origin: 6B Custor of origin: 84137075		19/03/2019	Date:		GRUND	
Minimum efficiency index, MEI ≥: 0.70 Net weight: 50.7 kg Gross weight: 71.7 kg Shipping volume: 0.285 m³ Country of origin: GB		10/00/2010	Dute.		Description	,
Net weight:50.7 kgGross weight:71.7 kgShipping volume:0.285 m³Country of origin:GB						
Gross weight:71.7 kgShipping volume:0.285 m³Country of origin:GB				, M⊑ra‱∓. 0.70 50.7 kg	Net weight:	
Shipping volume: 0.285 m ³ Country of origin: GB				71.7 kg	Gross weight:	
Country of origin: GB				0.285 m ³	Shipping volume:	
Custom tariff no.: 84137075				GB	Country of origin:	
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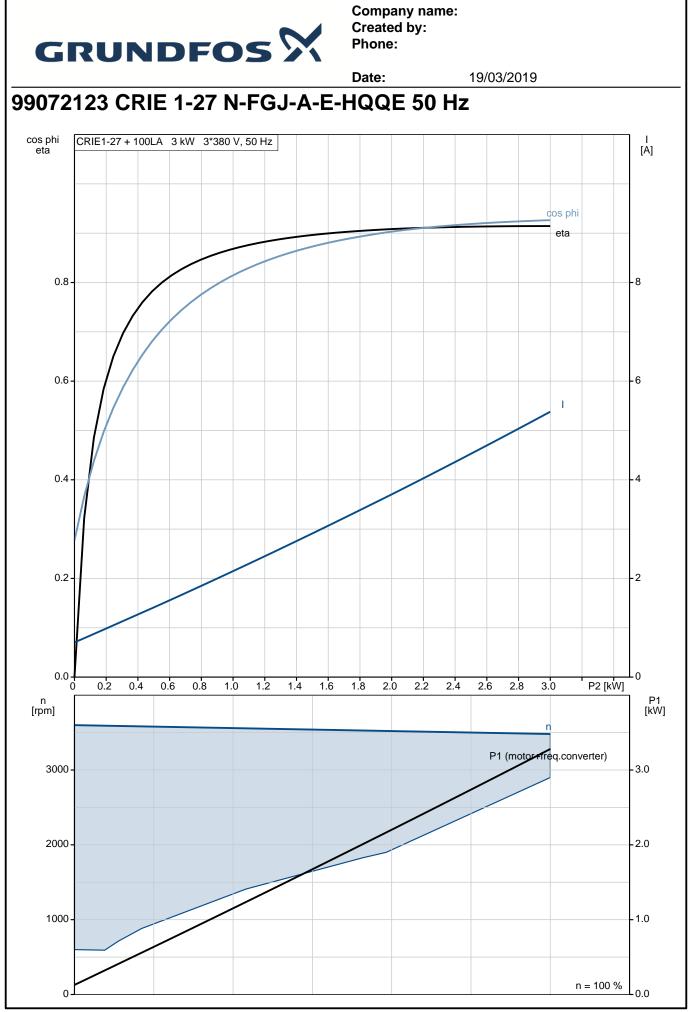


			,	/03/2019		1
Description	Value	H [m]			CRIE 1-27, 3*380 V	eta [%]
General information:						
Product name:	CRIE 1-27 N-FGJ-A-E-HQQE	260 - 240 -	100 %			
Product No:	99072123	220 -				
EAN number:	5712606205011					
Price:	3.745,00 GBP	200 -	90 %			
Technical:		180 -				- 90
Pump speed on which pump data are based:	3514 rpm	160 -	80 %			- 80
Rated flow:	2.2 m³/h	140 -				- 70
Rated head:	187.8 m	120 -	70 %			- 60
Head max:	244.4 m	100 -				- 50
Stages:	27		60 %		and a set	
Impellers:	27	80 -		\leq		- 40
Number of reduced-diameter impellers:	0	60 - //				- 30
Low NPSH:	N	40 - ///				- 20
Pump orientation:	Vertical					- 10
Shaft seal arrangement:	Single		7%			
Code for shaft seal:	HQQE	0 F	0.5 1.0	1.5	2.0 2.5 Q [m³/h]	LO
	CE, EAC,ACS	P] NPS
Approvals on nameplate: Curve tolerance:	ISO9906:2012 3B	[kW] 2.5 -			P1 (motor+freq.cor	[m
		2.0				aginte()
Pump version:	N	2.0 -			P2	-8
Model:	Α					
Materials:	Otobalaan start	1.5 -	///			-6
Base:	Stainless steel	1.0				-4
	EN 1.4408	1.0			- //	[]
	AISI 316	0.5 -				-2
Impeller:	Stainless steel					
	EN 1.4301	0.0			· · · · ·	L ₀
	AISI 304					
Material code:	A		201			
Code for rubber:	E					
Bearing:	SIC					
Installation:		334				
Maximum ambient temperature:	50 °C					
Maximum operating pressure:	25 bar	=	160 G 1/2 G 1/2	,		
Max pressure at stated temp:	25 bar / 120 °C		<u> </u>	-		
	25 bar / -20 °C	741	'IL+II,	4 x 19 x 27		
Type of connection:	DIN / ANSI / JIS	72	<u>1 X G 1/2</u>	L		
Size of inlet connection:	DN 25/32				Ĵ∰ ŝį	
	1 1/4 inch	75	┝──┞╉╤╤╤╬║	"⊨≓¶		
Size of outlet connection:	DN 25/32		100 150		32 85 4 x 13	
	1 1/4 inch			-	210	
Pressure rating for pipe connection:	PN 25					
Flange rating inlet:	300 lb					
Flange size for motor:	FT130	کا ت	Ŧ			
Connect code:	FGJ	Li				
Liquid:			<u> </u>			
Pumped liquid:	Water		8008			
Liquid temperature range:	-20 120 °C					
Liquid temperature during operation:	20 °C	C				
Density:	998.2 kg/m ³	are Korr				
Electrical data:	-					
Motor standard:	IEC					
Motor type:	100LA					
IE Efficiency class:	IE5		A GROAD			
Rated power - P2:	3 kW		8 GENELLS R 3 GAD 15			
Power (P2) required by pump:	3 kW					
Mains frequency:	50 Hz		♥♥ ♥ L, <u></u>			

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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: 50.7 kg Gross weight: 71.7 kg Shipping volume: 0.285 m³ Country of origin: GB Custom tariff no .: 84137075



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