

06/02/2020

Qty. | Description

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DDA 120-7

Note! Product picture may differ from actual product

Product No.: 99159393 DDA 120-7 FCM-PV/E/C-F-31U3U3F

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (PMS motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The mounting plate allows quick installation and service. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The sensor-based FlowControl (FCM) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of  $\pm 1$  % of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full double PTFE diaphragm.
- Ball valves for highest dosing accuracy.
- Deaeration valve for easy startup.
- Pressure sensor.

Operating modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA (scalable).
- Pulse-based batch function in ml, I or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (GENIbus prepared for Grundfos CIU fieldbus modules).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 60 l/h) and 25 % (maximum flow: 30 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:

- Input for pulse, analog 0/4-20mA and external stop.



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dosing, timer etc.) - Output analog 0/4-20	tput relays for maximum mA.		onfigurable, e.g. alarm, stroke signal, pump of the Grundfos CIU fieldbus converter).
Operatural			
Controls: Control variant:	FCM		
Level control:	YES		
Analog input:	0/4-20 MA		
Pulse control:	YES		
Ext. Stop input:	YES		
Analog output:	0/4-20 MA		
Output relays:	2		
Bus communication:	YES		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	0 50 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Technical:			
Type key:	DDA 120-7 FCM-F	V/E/C-F-31U3U	3F
Max. Flow:	120 l/h		
Max. flow in slow mode 50%	: 60 l/h		
Max. flow in slow mode 25%	: 30 l/h		
Min flow:	150 ml/h		
Turn-down ratio:	1:800		
Approvals on nameplate:	CE,CSA-US,NSF6	1.EAC.RCM	
Valve type:	Standard	.,,	
Maximum viscosity at 100 %	: 100 mPas		
Maximum viscosity in slow m		S	
Maximum viscosity in slow n			
Accuracy of repeatability:			
Materials:			
Dosing head:	PVDF (Polyvinylide	ene fluoride)	
Valve ball:	Ceramic	,	
Gasket:	EPDM		
Installation:			
Range of ambient temperatu			
Maximum operating pressure			
Installation set:	NO		
Installation type:	No installation set		
Pump inlet:	Conn.pack U3 (hos		
Pump outlet:	Conn.pack U3 (hos	se ID.19mm &	
Max. Suction lift during operation			
Max. Suction lift during primi	ng: 1.5 m		
Electrical data:			
Maximum power input - P1:	62 W		
Mains frequency:	50 / 60 Hz		
Rated voltage:	1 x 100-240 V		
Enclosure class (IEC 34-5):	IP65 / NEMA 4X		
Length of cable:	1.5 m		
Type of cable plug:	EU		



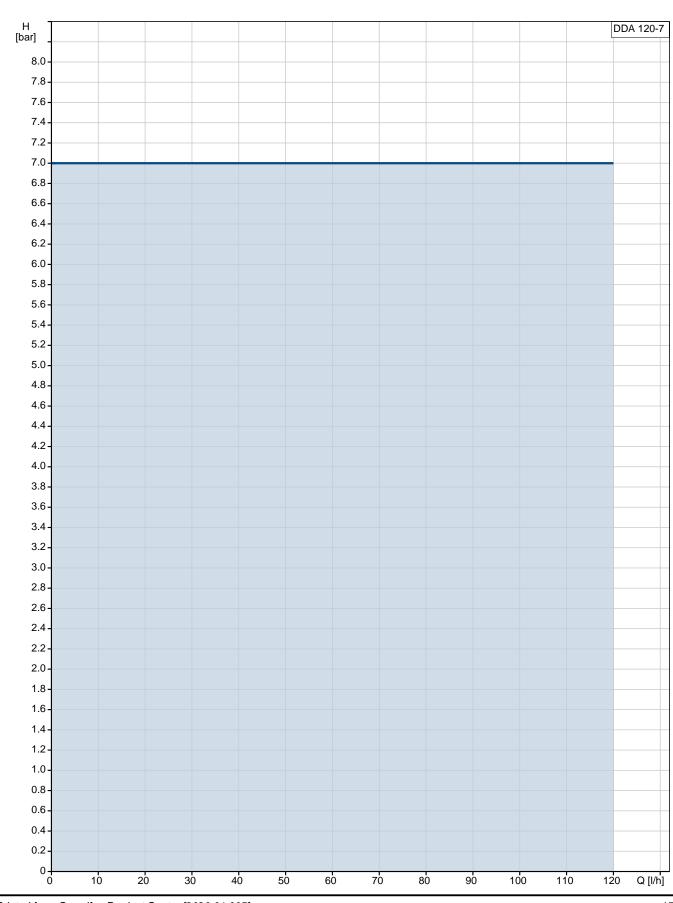
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Description			
Inrush current:	70A at 240V (35A/100	0V) for 2ms	
Others: Net weight: Gross weight: Color: Country of origin: Custom tariff no.:	7 kg 8 kg RED FR 84135040		



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## 99159393 DDA 120-7





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Description	Value	H [bar]		DDA 120-7
General information:				
Product name:	DDA 120-7			
Product No:	99159393	7.5 -		
EAN number:	5712607841812			
	5712607841812	7.0		
Price:	4.068,00 GBP			
Technical:	4.000,00 CDI	6.5 -		
Technical.	DDA 120-7			
Type key:	FCM-PV/E/C-F-31U3U3F	6.0 -		
Max. Flow:	120 l/h	5.5 -		
Max. flow in slow mode 50%:	60 l/h			
Max. flow in slow mode 25%:	30 l/h	5.0 -		
Min flow:	150 ml/h			
Turn-down ratio:	1:800	4.5 -		
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM			
Valve type:	Standard	4.0 -		
Maximum viscosity at 100 %:	100 mPas			
Maximum viscosity in slow mode		3.5 -		
50 %:	1500 mPas	3.0 -		
Maximum viscosity in slow mode 25 %:	3000 mPas	2.5		
Accuracy of repeatability:	1.5 %	]		
Materials:		2.0 -		
Dosing head:	PVDF (Polyvinylidene fluoride)	2.0		
Valve ball:	Ceramic	1.5 -		
Gasket:	EPDM			
Installation:		1.0 -		
Range of ambient temperature:	0 45 °C			
Maximum operating pressure:	7 bar	0.5 -		
Installation set:	NO	-		
Installation type:	No installation set	o <b>–</b>		
installation type.	Conn.pack U3 (hose ID.19mm	0	20 40 60	80 100 Q [l/h]
Pump inlet:	&		29	1874 x <b>9</b> 9
Pump outlet:	Conn.pack U3 (hose ID.19mm &			
Max. Suction lift during operation:	3 m			
Max. Suction lift during priming: Liquid:	1.5 m			
Pumped liquid:	Water			
Liquid temperature range:	0 50 °C	· · · ·	183.5	159
Selected liquid temperature:	20 °C	<b>-</b> 140	26 . 37	410
Density:				
Electrical data:	998.2 kg/m³			
	62 W/	· ⊢⊫		
Maximum power input - P1:	62 W	॑ ₽!₽		583.1
Mains frequency:	50 / 60 Hz	25 <b></b>		
Rated voltage:	1 x 100-240 V	<u>e</u>		
Enclosure class (IEC 34-5):	IP65 / NEMA 4X			
Length of cable:	1.5 m	<b>a</b> 19	94	
Type of cable plug:	EU			
Inrush current:	70A at 240V (35A/100V) for 2ms			
Controls:				
Control variant:	FCM			
Control panel:	FRONT-MOUNTED			
Level control:	YES			
Analog input:	0/4-20 MA			
Pulse control:	YES			
Ext. Stop input:	YES			
	120			



		Date:	06/02/2020
Description	Value		
Analog output:	0/4-20 MA		
Output relays:	2		
Bus communication:	YES		
Others:			
Net weight:	7 kg		
Gross weight:	8 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no .:	84135040		

