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CUE 120 Installation and operating instructions

93362246 0326
ECM: 1446915

Precision Control
For Sustainable Pumping

CUE 120

Optimize Efficiency, Sustain the Future

PRODUCT BROCHURE

GRUNDFOS
Possibility in every drop

Enhance The Pump Performance And Reduce Operating Cost

The Grundfos CUE 120 is a variable frequency drive for the effective speed control of any Grundfos pump irrespective of size or area of application.

It is perfectly suited for pump applications for industrial pumping solutions, wastewater networks, and building services.

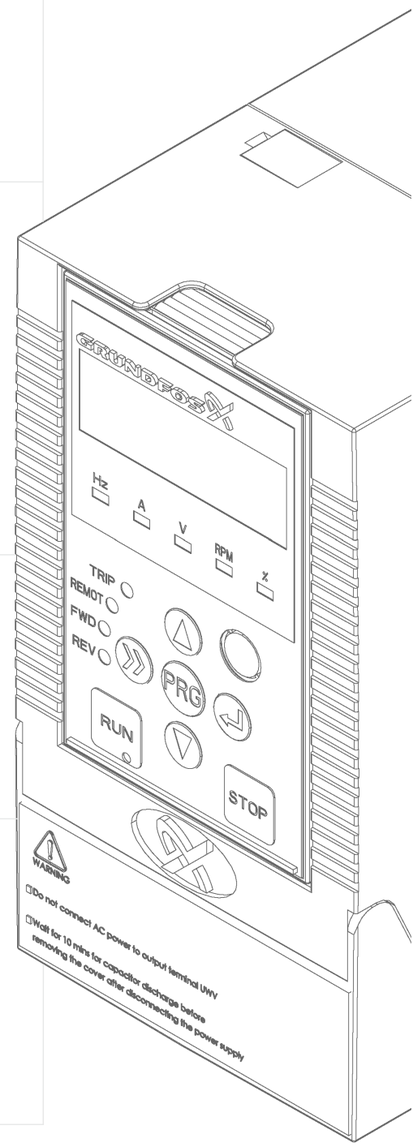
Available for motors up to 110 kW, the CUE 120 is especially suitable to operate with any Grundfos range of pumps. Adding a CUE 120 is a cost-effective way to improve energy consumption, resulting in lower costs and reduced carbon emissions. It can also improve the efficiency of existing pumps and systems.

Supercharge Your Business

A Grundfos CUE 120 frequency drive brings substantial benefits to your business. Easy to operate, it offers a straightforward connection to remote management systems, ensuring seamless connectivity. Additionally, by offering your customers a more dependable system setup, you'll enhance your reputation as a solution provider.

Be Energy Efficient

Reducing 20% of pump speed using VFDs and sensors can potentially increase energy efficiency by 50%. The Grundfos CUE 120 drive, designed for Grundfos pumps, boosts efficiency, reduces carbon emissions, and offers simple installation with excellent control.



Features & Benefits

The Grundfos CUE 120 frequency drive offers a wide range of features and benefits.

Energy Efficient Operation
Reduced life cycle cost and reduced CO2 emission

Soft Start
Ensures long life and no water hammering

Easy to Operate

Efficient Protection
Protects pump, motor and electronics against stress and overload

Shorter Lead Time

Made in India
Manufactured in India for India

Optional Cards
DI/DO/AO/Ethernet/Profibus /Profinet Communication

Cost Effective

Braking Unit
Inbuilt braking unit available in all range

Easy communication to SCADA systems

One Digital Relay Outputs
Can be set to report running, alarm and warning

Multiple Applications
Water Transfer, Water Boosting, Cooling Tower Pumps, Process Cooling and Comfort Cooling etc.

Product Catalog Description And Range

Product Name	CUE 120	4T	0015	N	B	X	-IP20

IP: Ingress Protection

X : Extension card

Brake Unit
B - Brake Unit

N: Normal Duty

Voltage Rating
4T: 380~440V

Power Rating

0015-1.5kW	0300 – 30KW
0022-2.2kW	0370 – 37KW
0040-3.7/4.0 kW	0450 – 45KW
0055-5.5kW	0550 – 55KW
0075-7.5kW	0750 – 75KW
0110-11kW	090 - 90KW
0150-15kW	1100 – 110KW
0185-18.5kW	
0220-22kW	

Note 1: Extension cards can be connected for power ratings ranging from 7.5 kW to 110 kW.

Note 2: Extension cards are available for models marked “X” in the 2.2 kW, 4.0 kW, and 5.5 kW ranges.

Technical Specifications

Built - in Inputs/Outputs	Yes
Digital Inputs	5
Digital Output	1
Relay Output	1
Analog Inputs	2 (AI1)0-10V, (AI2)0-10V/0-20mA/4-20mA
Analog Output	1 (0 - 10VDC/ 0 - 20mA/ 4 - 20mA)
RS - 485	Modbus RTU

Outstanding Control Performance

Advanced vector control algorithm: Induction motor and PM motor control.

Two control modes: Vector control and V/F control

Speed tracking function/more stable

Superior overload performance: 180% current for the 20s.

Unique current algorithm to avoid machine trips due to high current startups, without impacting the startup torque.

High temperature aging test for PCB and 100 % inspection while manufacturing

Powerful Functions

Phase-to-phase, short-circuit protection for all product ranges

Two PID groups for precession control

RS-485 communication port supporting MODBUS-RTU communication protocol

Various extension cards are optional for flexible applications from 2.2kW to 110kW

Supervision functions

Parameter backup function and recovery through keypad/Software

Superior Adaptability

Wide working voltage range: 304VAC~456VAC and 3C3 conformal coating for PCB's

Multiple frequency setup function.

Automatic energy saving function and restart function