

CUE 120

Optimize Efficiency, Sustain the Future

PRODUCT BROCHURE



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CUE 120 Installation and
operating instructions

93362246 0326
ECM: 1446915



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.

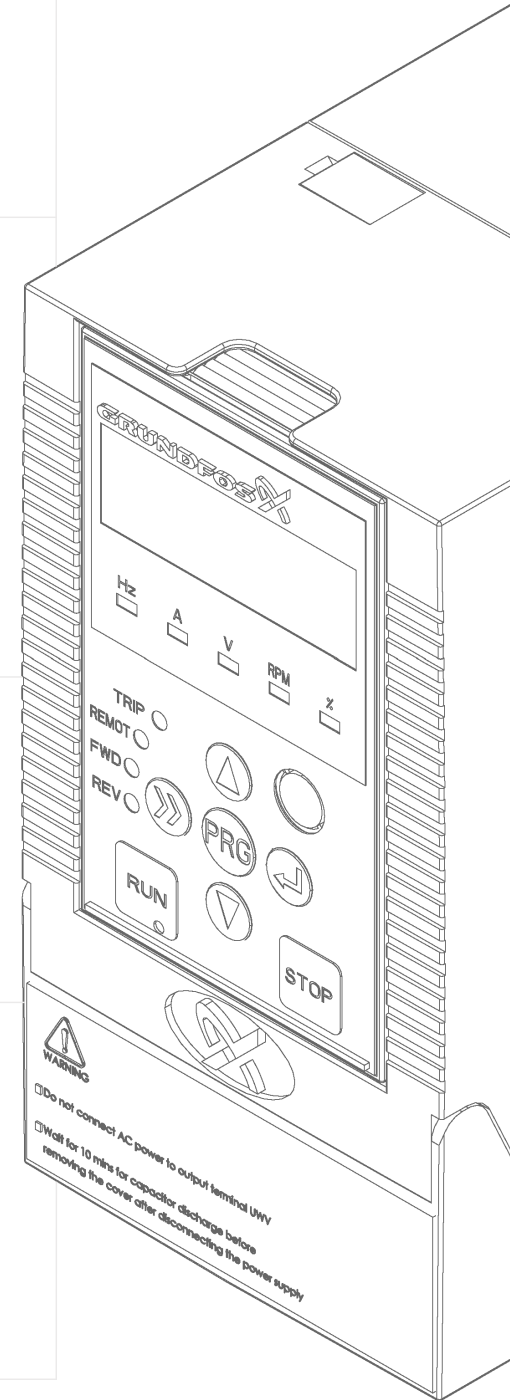
Available for motors up to 110 kW, the CUE 120 is especially suitable to operate with any Grundfos range of pumps. Adding a CUE 120 is a cost-effective way to improve energy consumption, resulting in lower costs and reduced carbon emissions. It can also improve the efficiency of existing pumps and systems.

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

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	0900 – 90KW
0150-15kW	1100 – 110KW
0185-18.5kW	
0220-22kW	

IP: Ingress Protection

X : Extension card

Brake Unit
B - Brake Unit

N: Normal Duty

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



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