

APPLICATIONS

The Grundfos CUE is a series of external frequency converters designed for speed control of a wide range of Grundfos pumps. When a CUE is installed, the motor requires no further motor protection. The CUE offers quick and easy set-up and commissioning compared to a standard frequency converter because of the start-up guide. Simply key in application-specific variables such as motor data, pump family, control function (for example constant pressure), sensor type and setpoint, and the CUE will automatically set all necessary parameters. The CUE enables gentle pumping and thereby protects the water reservoir and the rest of the distribution system, as water hammer can be avoided by adjusting ramp times up and down.

Overview of the CUE range

Supply voltage [V]	Power range [kW]						
	0.55	0.75	1.1	7.5	11	4.5	250
3 x 525-690							
3 x 525-600							
3 x 380-500							
3 x 200-240							
1 x 200-240							

The CUE is available in two enclosure classes:

- IP20/21
- IP54/55

RFI filters

To meet the EMC requirements, the CUE comes with the following types of built-in radio frequency interference filter (RFI)

Voltage	Typical shaft power, P2 [kW]	RFI filter type	Application
1 x 200-240	1.1 - 7.5	C1	Domestic
3 x 200-240	0.75 - 45	C1	
3 x 380-500	0.55 - 90	C1	Domestic/industry
	110 - 250	C2	
3 x 525-600	0.75 - 7.5	C3	Industry
3 x 525-690	11 - 25	C3	



Functions

The CUE has a wide range of pump-specific function, such as:

- constant pressure
- constant level
- constant flow rate
- constant temperature
- constant curve

CUE Features

- Start-up guide
- The CUE incorporates an innovative start-up guide for the general setting of the CUE including the setting of the correct direction of rotation. The start-up guide is started the first time the CUE is connected to the power supply.
- Check of direction of rotation.
 - Duty/standby operations.
 - Dry-running protection
 - Low-flow stop function