

3G drive

**alcona**  
Automation

**Robust**  
**efficiency**  
comfortable  
saving energy



**Frequency inverter  
with integrated line filter**

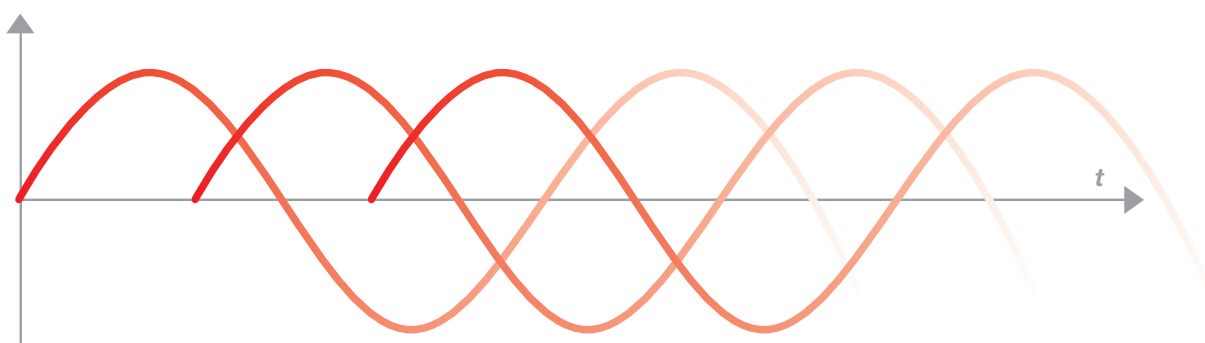
**1-phase 230 V, 6/10 A**

**3-phase 400 V, 6/10 A**

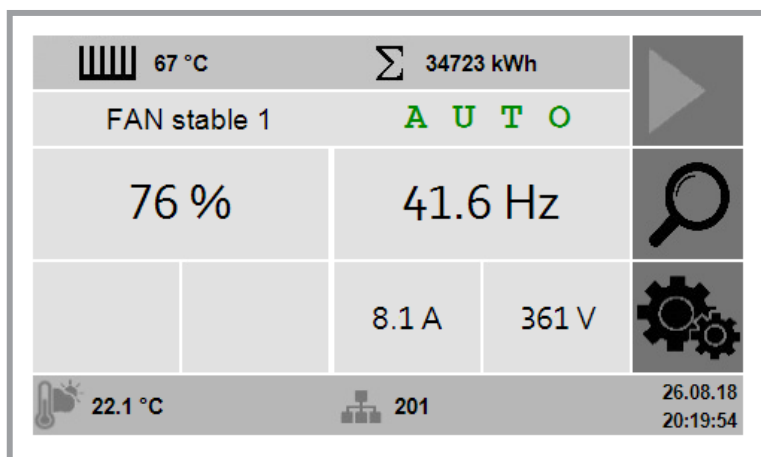
## Easy installation and quiet operation: Save money and energy in the long term

The new **frequency inverter 3G-drive** has been specially developed for fan and pump applications. Latest control algorithms ensure **energy-saving and long-lasting operation** of your drives.

The integrated **all-pole line filter** guarantees **gentle and quiet operation** of the connected motors. Due to this filter technology, existing cables and motors can continue to be used. **Parallel operation** of several drives as well as long unshielded motor cables is also possible.



The device has a graphical **5" touch display** optionally. This makes it possible to read the **current states** such as e.g. current, voltage and energy consumption. In the setting range, inverter-specific **parameters** can be specified. The menu structure is **user-friendly** and intuitively operable.

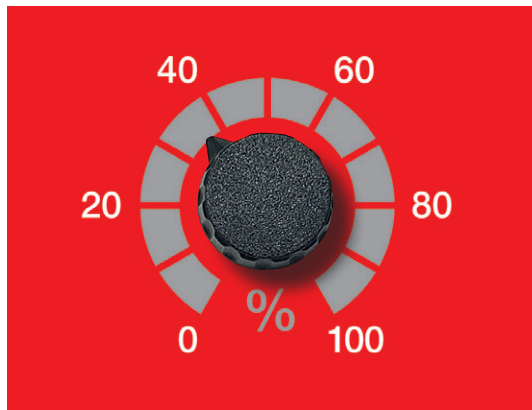


## Well connected and communicative

The **3G-drive frequency inverter** belongs to the **3G product family** of **alcona Automation GmbH**. This means an **identical operation** for the user, a continuous **networking option** via CAN bus as well as a complete **exchange of data** between the 3G devices. This simplifies the wiring and offers the **remote visualization** and **remote maintenance capabilities** known from the 3G series.

Via the optionally available integrated **web server**, the device can be operated remotely via LAN or WiFi via **PC or smartphone**.





## *It's your choice ...*

There are various options for setting the speed. Classic via **analogue signal** 0-10V, via **potentiometer** as well as read by **CAN bus**. In the latter case, the speed setting is transmitted directly from the climate computer via network to the inverter.

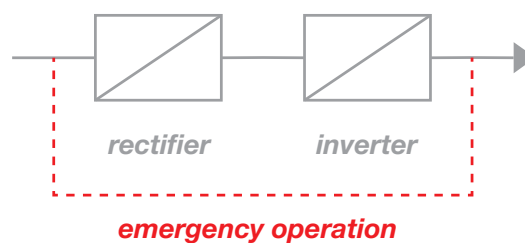
## *Sensibility for an optimal climate*

Especially for the use in **agriculture**, the device offers an **integrated stable climate control**. The compartment temperature is detected by a **temperature sensor** and regulated accordingly. In addition, heaters and shutters can be connected.

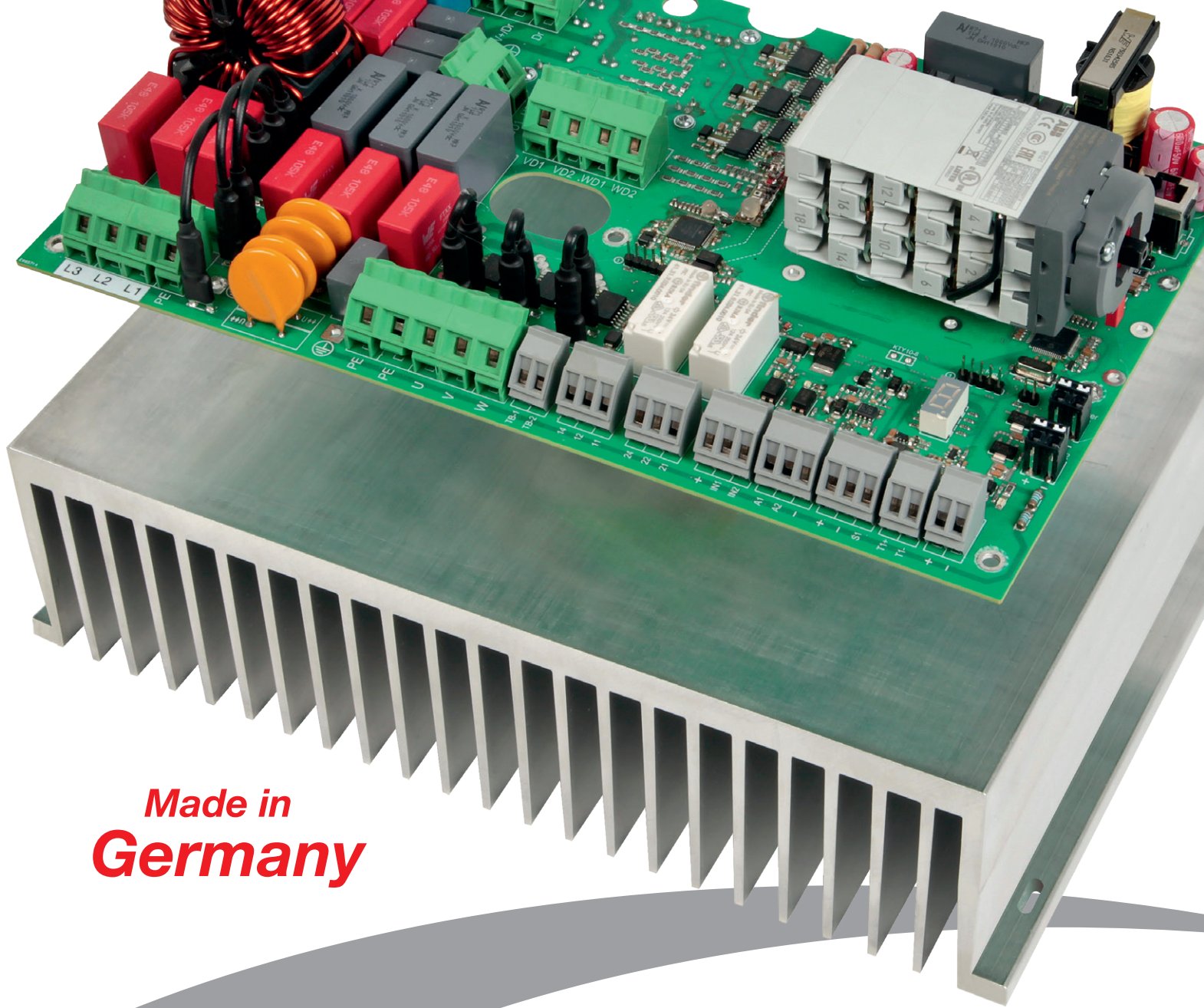
The frequency converter consists of a closed **splash-proof housing**. Various converter types cover a wide range of services for the user. Via a **slave-function** it is possible to connect further downstream frequency inverters.

## *Bypass: Cost-effective equipped for emergencies*

On request, the device can be supplied with an integrated **bypass switch**. In switch position „Bypass“, the input voltage is switched directly to the motor output. This guarantees an **emergency operation** for all cases.



Compared to the classic separate bypass switch, the integrated solution which is used here, saves **costs and installation work**.



**Made in  
Germany**

**Modular  
configuration**

**Product name**

**ALC-3G-DR-**

**Mains connection**

1-phase 1P  
3-phase 3P

**Motor rated current**

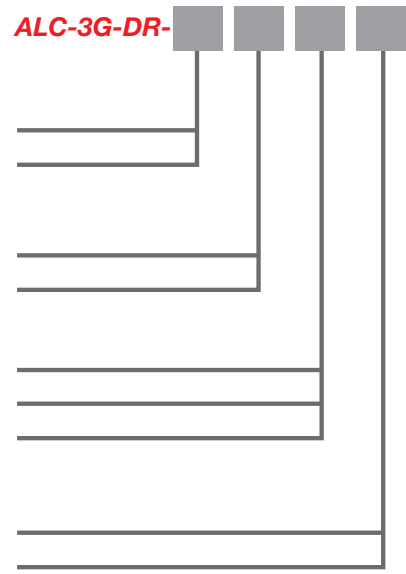
6 A 6A  
10 A 10A

**Operation**

No operation  
Potentiometer POT  
Touch display TP5

**Bypass switch**

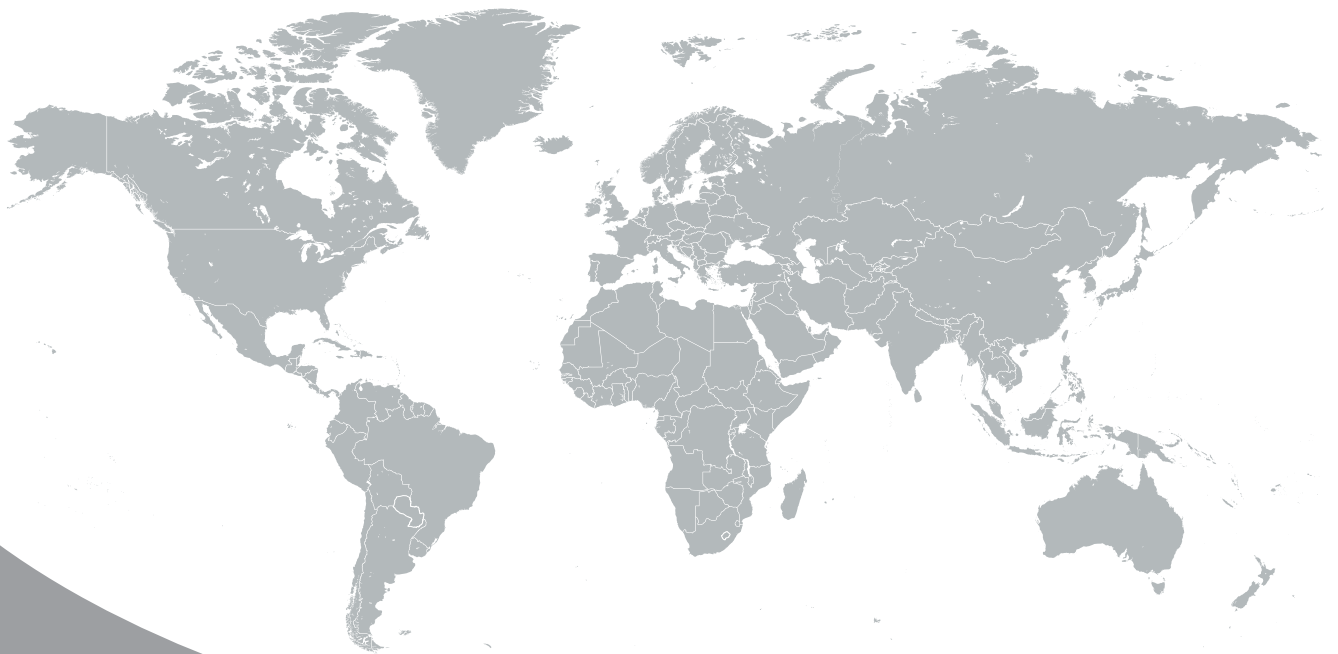
Without bypass  
With bypass B



## Technical data

Electrical data	Power supply	1-Ph 230 V (+/- 20 %), 50/60 Hz		3-Ph 400 V (+/-20 %), 50/60 Hz	
	Max. motor current***	6 A	10 A	6 A	10 A
	Overload capacity	120 %			
	Output frequency	0..100 Hz			
	Clock speed	16 kHz			
	Max. purchaser-supplied fuse (Type B)	16 A	20 A	16 A	20 A
Mech. data	Dimensions	326 x 232 x 192 mm			
	Weight	6,5 kg		7,8 kg	
	Protection class (variant housing)	IP54			
Environmental conditions	Ambient temperature	-20..+40 °C, +40..+55 °C with power reduction			
	Storage temperature	-25..+80 °C			
	Humidity	up to 85 % (without condensation)			
	EMC	DIN-EN 61000-6-2 / DIN-EN 610006-3			
Operation	Display (variant TP5)	5", colour, touch			
	Buttons (variant TP5)	5 pieces			
	LEDs (variant TP5)	2 pieces			
	Potentiometer (variant POT)	10 kOhm			
Connections	Motor monitoring	Thermal contact, temperature sensor type TF			
	Relays	2 pieces			
	Digital inputs	2 pieces			
	Analogue outputs	2 pieces 0..10 V			
	Analogue inputs	1 piece 0..10 V			
	Temperature sensor	1 piece KTY			
	Power supply for sensors...	24 V-DC, 15 W			
Networking	Interfaces	RS485*			
	Interfaces (variant TP5)	USB, Ethernet, CAN			
	Internet (variant TP5)	Web server*			
Internal measurements	Voltage	Input phases, intermediate circuit, output phases			
	Current	Output phases			
	Temperature	Power electronics			
Functions	Internal protective functions	Under- and overvoltage, phase failure, overload, short circuit, over temperature			
	Regulator settings	0..10 V, potentiometer, temperature sensor, CAN-bus			
	Settings	Min-/ max speed, ramps, U/F - characteristic, starting voltage, braking voltage and time, regulator settings**			
* optional ** selection *** 18 A in preparation					

*In use all over  
**the World***



You can buy the 3G series at your local specialized retailer.  
We will be pleased to assist you in choosing your local partner.

*Dealer*

