

2010

AC Drives • Lift Control System

# SIEIDrive AGL50 Lift



**Comfort-enhancing technology**

English

**GEFRAN**

**SIEIDrive AGL50** is the new range of Gefran inverters specifically designed to meet the application requirements for the lift sector.

The **AGL50** has the latest in low cost inverter lift technology, offering a simple solution for either **new innovative systems** or for the **retrofit market**.

It features an easy to use parameter structure that guarantees rapid system start-up, **high-level lift control** and **travelling comfort**.

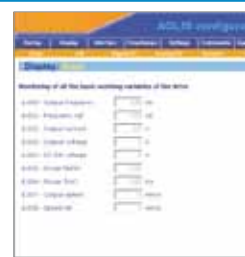
Gefran has developed a cost-effective and immediate solution for the use of electric drives in lift control systems.



## Functions Lift control

- **16** multispeeds
- **4** multiramps (linear, S-shaped with independent jerk settings) **1**
- **Self-tuning** of motor parameters
- **Overload** capability of 170% for 10 seconds
- Integrated **lift sequences** **2**
- Speed expressed in **m/s**
- Management of space calculated by the drive, even offline
- **Short floor** Control **3**
- Motor **contactor** control
- Integrated **brake** control
- Speed regulator **adaptive** gain technology

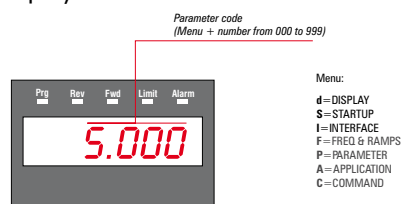
## GF\_eXpress



The GF\_eXpress PC configurator makes programming flexible and intuitive.

## Signal LEDs and display

Menus, parameters, alarms, etc. are shown on the bright and clear LED display.

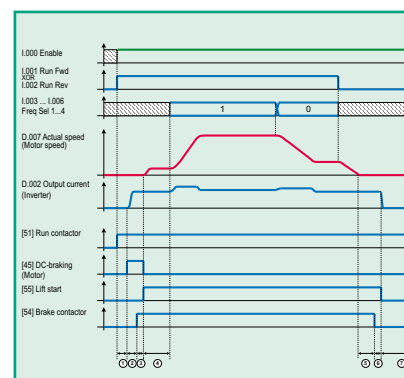
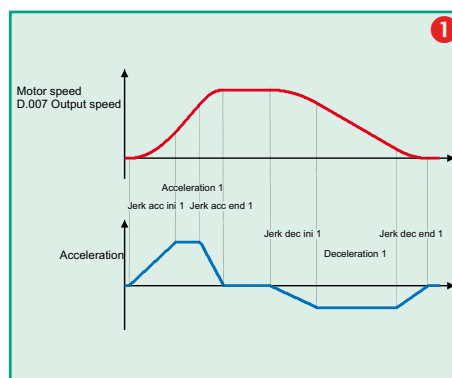


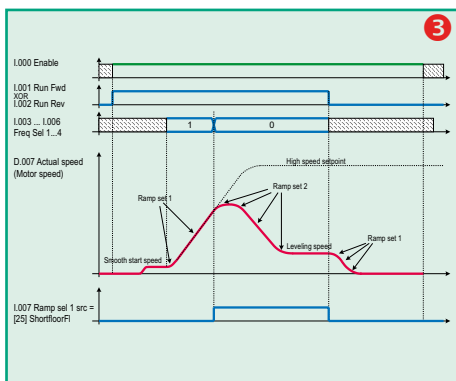
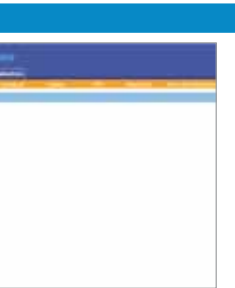
## Programming keypad

The integrated keypad enables simple, fast programming.

## Compact, complete and powerful

- 1 analog input
- 1 analog output
- 6 digital inputs
- 1 digital output
- 2 relay outputs
- RS485 serial line
- Single/dual-channel encoder digital input





## General Features

<b>Power supply</b>	3ph 400VAC...480VAC
<b>Ratings</b>	4kW – 5.5kW – 7.5kW
<b>Control</b>	Open and closed-loop space vector
<b>Output frequency</b>	500Hz
<b>Switching frequency</b>	8kHz
<b>Temperature control</b>	for motor and drive
<b>Dynamic braking</b>	integrated (external resistor)
<b>Serial line</b>	RS485 with Modbus or Jbus protocol
<b>Protection class</b>	IP20

## Electrical and mechanical specifications

Model • AGL50-...		2040	2055	2075
<b>AC input voltage U<sub>LN</sub></b>	[V]	400VAC -15% ... 480VAC +10%, 3Ph		
<b>AC input frequency</b>	[Hz]	50/60 Hz ±5%		
<b>AC input current for continuous duty I<sub>N</sub> @ 400VAC</b>				
• Connections with three-phase input choke	[A]	9	13	16
• Connections without three-phase input choke	[A]	11	14	19
<b>IGBT braking unit</b>		Internal standard (with external resistor); braking torque 150%		
<b>Inverter output, continuous duty</b>	[kVA]	7	9	12,3
<b>P<sub>N</sub> mot (recommended motor power):</b>				
• @ U <sub>LN</sub> =400VAC; f <sub>sw</sub> =default	[kW]	4	5.5	7.5
<b>Maximum output voltage U<sub>2</sub></b>	[V]	0.98 x U <sub>LN</sub> (AC input voltage)		
<b>Maximum output frequency f<sub>2</sub></b>	[Hz]	500		
<b>Rated output current I<sub>2N</sub>:</b>				
• @ U <sub>LN</sub> =400VAC; f <sub>sw</sub> =default	[A]	10.1	13	17.7
<b>Switching frequency f<sub>sw</sub> (Default)</b>	[kHz]	8		
<b>I<sub>OVLD</sub> (Instant overload current, 170% of I<sub>N</sub> for 10s every 100s)</b>	[A]	17.2	22.1	30
<b>Output current derating factors:</b>				
• K <sub>V</sub> for 460 VAC line voltage		0,87		
• K <sub>T</sub> , for ambient temperature		0,8		
• K <sub>ALT</sub> , for installations at more than 1000 metres above sea level		1.2 (1.2% for every increase of 100 metres at more than 1000 metres above sea level)		
• K <sub>f</sub> , for higher switching frequencies (10kHz / 12kHz)		0,85 / 0,7		
<b>Approvals</b>		CE		
<b>Standard</b>		EN 61800-1, IEC 143-1-1		
<b>Dimensions (Width x Height x Depth)</b>	[mm]	130 x 221 x 176.5		
<b>Weight</b>	[Kg]	3		

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