

## CONTROL UNIT

# F21050305 VariMax50 NG

## Control unit for stepper motor



- Internal rotation monitor
- Integrated Modbus
- User friendly
- Stable aluminium enclosure
- Compact build dimensions
- Input signal 0-10 V
- Remaining alarms
- CE-approved
- Five-year product warranty

Set of EMC-glands are included in VariMax50 NG

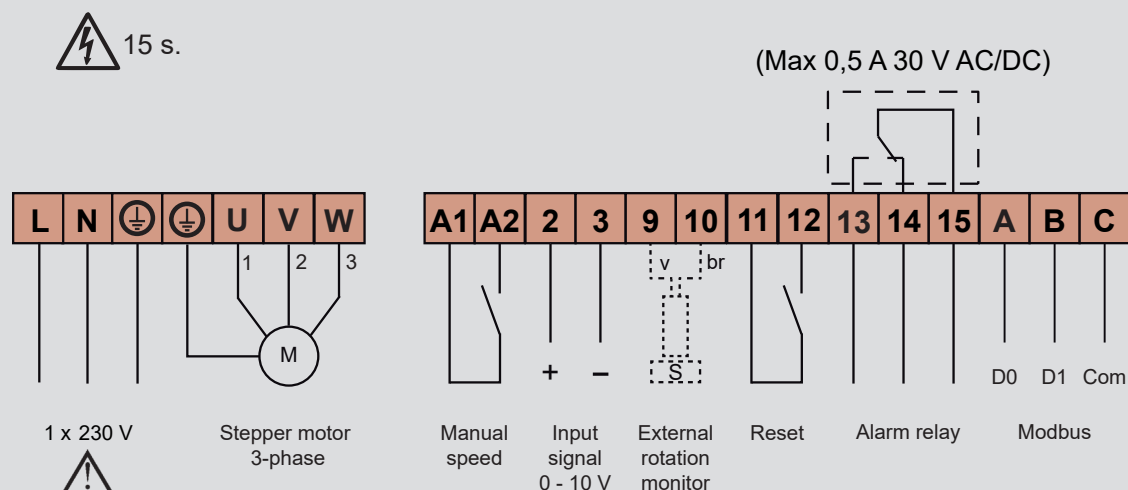
VariMax50 NG combines small dimensions with large capacity and is very easily mounted and run.

VariMax50 NG is intended for thermal rotor diameters up to 2500 mm with a rotor speed of max. 12 rpm. If the rotor requires a faster rotor speed, the rotor diameter should be reduced.

VariMax50 NG is an alternative to our control units MiniMax and MicroMax.

The control unit is delivered in enclosed version and should be combined with our VariMax-motor50 NG.

## CONNECTION DIAGRAM



### Description of functions

Together with the VariMax-motor50 NG, VariMax50 NG constitutes a modern combination of specific additional functions for an optimal run of a rotary heat exchanger. The VariMax-motor50 NG is a stepper motor with a large torque within the complete speed area. This means that the speed of a thermal rotor is between 0,1-12 rpm.

- Input signal 0-10 V** The speed of the rotor is regulated by the control unit so that the efficiency of the heat exchanger is in proportion to the input signal from the central control.
- Cleaning function** When the rotor has stopped for 10 minutes, the cleaning function is activated and the rotor starts to rotate. As a warning, the rotor first rotates for 6 seconds at a motor speed of 5 rpm, the rotor is then stationary for 3 seconds. After this, the actual cleaning starts, for a random time, between 10 to 20 seconds with the motor at 20 rpm.
- Rotation monitor** The internal rotation monitor is normally used, but an external rotation monitor can also be connected. For detailed information see the manual.
- Other alarms** The control unit trips and alarms at over- or under voltage, overtemperature in the control unit, overtemperature in the motor, short circuit or earth faulty. All alarms are remaining.
- Manual speed** Possibility of controlling the speed via separate potentiometer, whatever the value of the input signal.
- Test** DIP-switches for manual run at low- or high speed.
- Modbus** The VariMax50 NG has internal Modbus functions. For more information, see the manual on our website, [www.ibcccontrol.se](http://www.ibcccontrol.se)

### Technical data

VariMax50 NG	
Connection voltage	1x230-240 V +/-15% 50/60 Hz
Power input max.	222 W
Input current	1,65 A
External fuse max.	10 A
Output voltage*)	3x0-260 V
Output current, max	2,0 A
Output frequency	0-312 Hz
Acceleration- and retardation time	30 sec
Ambient temperature not condensing	-40 - +45 °C
Protection form	IP 44
Weight	0,8 kg
Dimensions, HxWxD	162x195x56 mm

\*) Exact value can not be achieved with a digital measuring instrument