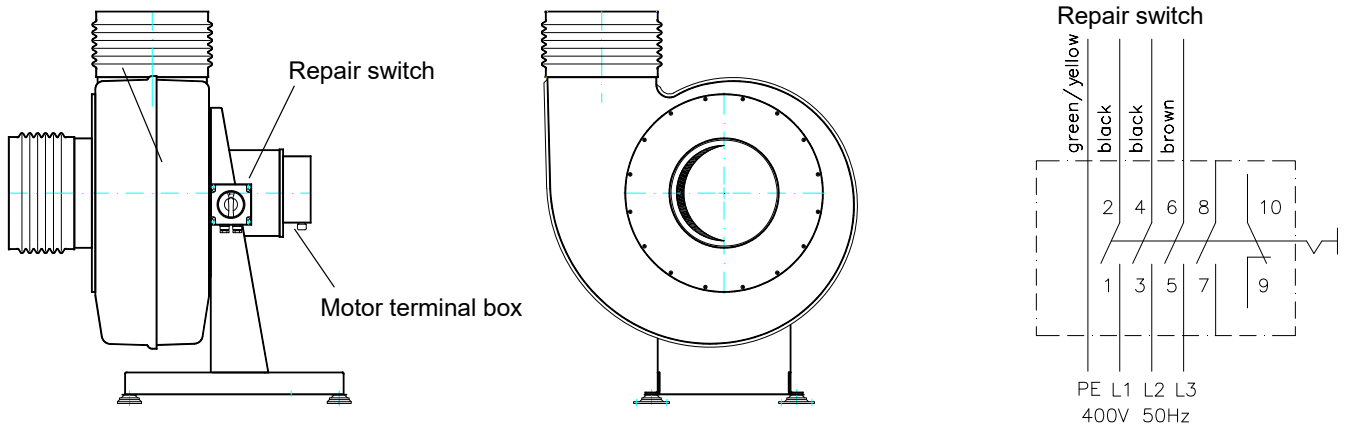


The fans of the VRE...-EC series were developed on the basis of the proven VRE series as a supplement to the variable speed drives predominantly used for plastic centrifugal fans in the combination of asynchronous motor and frequency inverter.

All specifications and instructions in the "Radial fans VRE" operating instructions also apply to use and operation.

1. Mains connection



The power supply is connected to the repair switch mounted on the fan.

A fault signal can be connected to the COM and NC terminals in the motor terminal box (max. contact load AC 250V 2A). The contacts are closed during normal operation and open in the event of a fault in the motor.

2. Connecting the control cable

Die Steuerleitung wird im Klemmkasten des Motors angeschlossen.

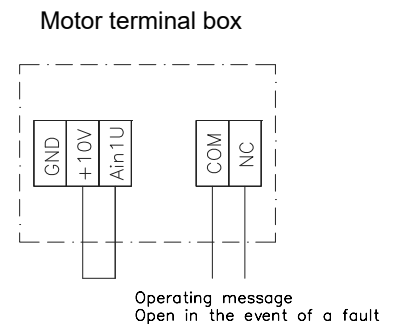
Three operating modes are possible for speed control.

2.1. Operation with fixed speed (factory setting)

The bridge between the internal 10V voltage source and the Ain1U input causes the fan to run at its maximum speed.

Optional start/stop contact for motor sizes 112 and 150:

A bridge between GND and Din1 causes a stop command.



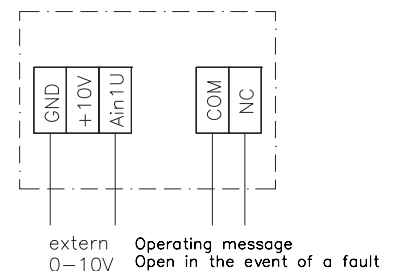
2.2. Activation via an external control signal

An external 0-10V signal is connected to the Ain1U and GND terminals.

<1V --> Speed = 0

approx. 1V --> Speed = Minimum fan speed

10V --> Speed = Maximum fan speed



2.3. Control via an external potentiometer

The speed is changed via an external potentiometer. The resistance should be 10kOhm so that the motor's internal voltage source is not overloaded.

We recommend the POT10K potentiometer, which can be surface-mounted or flush-mounted.

