# AC-VENT Single

www.vale-systems.co.uk

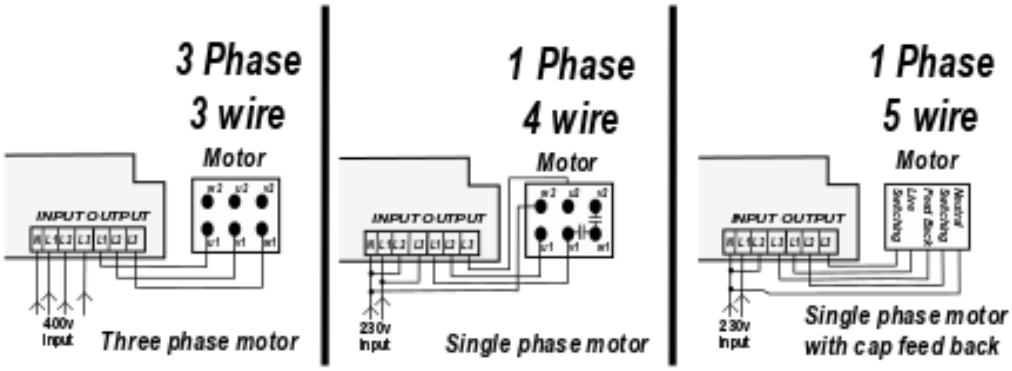
***Installation:***

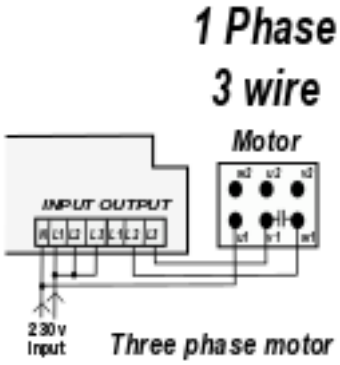
***Power output:***

230-400v Supply: should be protected with an adequate fuse/PCB.

Setting the motor current: use the “motor current set point adjuster” to set the desired set current (0 to 5A).

Motor output type: the default is:




pushing and holding the set button on power up will switch the output to:

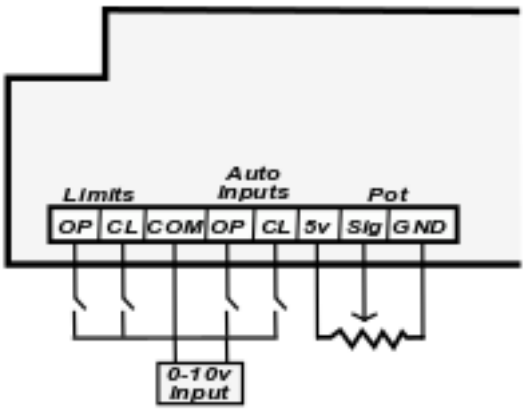
on power up the alarm LED will flash several times to indicate this function have been activated.

***Controls:***

Limits: need to be NC, COM should be connected to both limits and returning back to OP & CL.

Auto Inputs: need to be NO, COM should be connected to both auto inputs returning back to OP & CL, (volt free).

Potentiometer: should be wired in a screened cable (CY) no bigger than .75mm, 10k Potentiometer should be used and the maximum amount of range to maximise accuracy & reliability.



**Operation:**

Jumpers J1 & J2: should be set before power up, both should be linked/unlinked at one time.

Unlinked: manual control using the auto inputs to open and close.

Linked : using a 0-10v input to set the position of the inlets.

**Calibration:**

Calibrate the pot input pushing and holding the set button for 5sec will calibrate the min/max of the motor travel, the alarm LED will flash on/off every 1s.

Calibrating the 0-10V control input Pushing and holding the set button for 10sec will calibrate the 0-10v input, set the input to the desired 0% voltage and push reset button, then set the input to the desired 100% voltage and push reset button, the alarm LED will flash on/off every 1/2s.

When completed will return back to normal operation.

Dead band If the range is less than 255 (Bad calibration) there will be a dead band of +/- 2%, If the range is between 251 & 510 the dead band will be +/- 1% and if over 511 0.5%.

(Max rage 0-1023)

**Potential Alarms:**

| | |
|---|---|
| Vent Overload | Vent over current trip |
| Vent Over Run | Vent taking to long to move (over 2min) |
| Limit Fault | When open & close limits are open circuit (automatically resets) |

**WARNING THERE IS 230V/400v EXPOSED COMPONENTS ON THIS PCB AND SHOULD BE INSTALLED / MAINTAINED BY AN COMPETENT PERSON.**