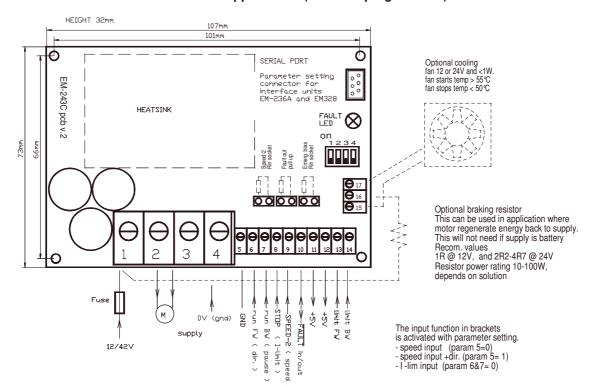
# EM-243C basic applications (standard program v1.7)



#### 2-speed mode

Start commands with digital fw/bw switch.
Stop impulse from switch will stop the motor.
Active stop command will not prevent the
new start with fw or bw command.
"speed-2" activates slow speed, value
set with parameter 5. Notice! When speed-2 is activated
the stop impulse will stop motor immediately (no ramp).
Command mode to continuous or impulse is set with
parameter 1. Input logic default is PNP but can
be changed to NPN with parameter 3.
In PNP mode the control command can be 5-30Vdc
In NPN mode switches can connect to gnd (0V)

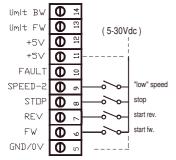
### Analog speed control mode-1

This mode is selected by setting param.5 = 0 Speed-2 input is changed in to speed input. Motor starts with digital command fw or bw. The speed adjust signal can be 0-5V or 0-10V voltage signal. The basic range is selected with dip-switch 1. and the fine tuning of range can be done with parameter 4. Use PNP logic for control logic (see param 3). Potentiometer recom. value is 1-100kohm

### Analog speed control mode-2

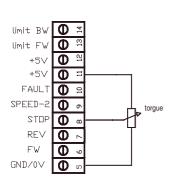
This mode is selected by setting param.5 = 1 Speed-2 input will be changed to speed input and fw. input will work as direction change input. (open =fw. / closed =bw.) Motor starts when speed control signal starts to increase from OV.

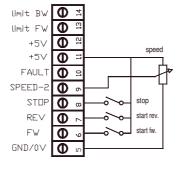
The basic range is selected with dip-switch 1. and the fine tuning of range can be done with parameter 4.
Use PNP logic for control logic (see param. 3). Potentiometer recom. value is 1-100kohm





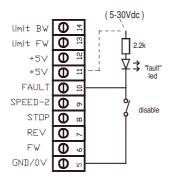
Set parameters 6 & 7 to val. 0, then stop input is changed to work as torque adjust input. This option can be used with all above examples. The adjust signal range is 0-5V.

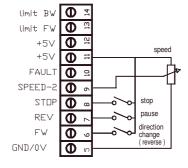




### Fault output/input pin.

This pin works as NPN output in case of overheat and other cases which are defined with parameter 10. This pin works also as disable input if it is externally pulled down. When this pin is pulled down the driver stops immediately and will not start with any command! This input can be connected as shown below or only to LED or switch. The led voltage can be for example internal 5V or external voltage 5-30V





## Limit inputs

These inputs stop and disable run to fw. or bw. direction. As long as limit input is active the drive is disabled to this direction. Normally the limit inputs stops motor quickly with dynamic brake but in 2-speed mode dynamic brake is enabled only when speed-2 is activated The logic of limit inputs can be set with param. 3 In PNP mode the control voltage can be 5-30Vdc In NPN mode switch can be connected to gnd (0V)

