

# I/O menu (IO)

The I/O parameters can only be modified when the motor is stopped.

Code	Description	Setting range	Factory setting
L 13 L 14	<b>Logic inputs</b>		LIA LIL
<p>The selected function is active if the input is powered up.</p> <ul style="list-style-type: none"> <li>- no: not assigned.</li> <li>- LIA: forced freewheel stop as soon as a STOP command is received. This selection does not appear if the CSC parameter in the drC menu is set to "On". Forces the configuration of a freewheel type stop, but does not control the stop.</li> <li>- LIE: external fault. Enables the starter to detect an external user fault (level, pressure, etc.). The motor comes to a freewheel stop and the starter displays EtF.</li> <li>- LIH: (1) motor preheating. This selection does not appear if the CSC parameter in the drC menu is set to "On". Used to prevent the motor from freezing or to prevent temperature deviations which may cause condensation. Once the motor has stopped an adjustable current IPr flows through it after an adjustable time delay tPr, if the input is active. This current heats the motor without causing it to rotate. IPr and tPr must be adjusted (see below).</li> </ul> <div style="text-align: center;"> <p>The diagram shows the relationship between motor speed and various control signals. Speed starts at a high level, then ramps down to zero. At this point, the RUN signal transitions from high to low. Simultaneously, the LI (Logic Input) signal transitions from low to high. Following this, the IPr current signal ramps up to a constant level. The time delay tPr is shown as the interval between the motor stopping and the IPr current starting. The tbS signal is shown as a pulse that occurs during the IPr current flow. After the IPr current stops, the speed ramps back up.</p> </div> <p>Preheating starts when the input is activated and the motor has stopped, after time delays tPr and tbS (PrO menu) have elapsed. Preheating stops if the input is deactivated, if a run command is sent or if the STOP input is activated.</p> <ul style="list-style-type: none"> <li>- LIL: force to local control mode. If a serial link is used, changes from line mode (control via serial link) to local mode (control via terminals).</li> <li>- LII: (1) inhibits all protection. Warning: This type of use invalidates the starter warranty. Used to override the starter in the event of an emergency (smoke extraction system for example).</li> <li>- LIt: reset motor thermal fault</li> <li>- LIC: activation of the cascade function. In this case motor thermal protection is disabled and relay R1 must be configured as an isolating relay. Can be used to start and decelerate several identical motors one after the other with a single starter (see application diagram).</li> <li>- LIr: reset faults which can be reset</li> <li>- LIS: activation of second set of motor parameters. Used to start and decelerate two different motors one after the other or one motor with two different configurations using a single starter.</li> </ul>			

(1) In order for this assignment to take effect, ENT must be pressed for 10 s (confirmed by flashing display).  
**This parameter cannot be modified via the remote terminal.**