MotorStart Example



The MotorStart example shows how an AmbiLogique PLC can be used in conjunction with non-software solutions to solve tricky safety issues.

Disclaimer

This example is provided as an illustration of AmbiLogique PLC functions only. No representation is made which suggests that this example will meet the technical requirements of any specific Health and Safety Authority. It is the responsibility of the user or applications engineer to determine whether a PLC system of this type will meet these technical requirements, and to design the system to meet all the provisions of such requirements.

This example shows how to connect an AmbiLogique PLC into a safety circuit where there is a requirement that the safety circuits must be duplicated, and at least one safety path must be independent of any software-based device.

The first diagram sheet is an AmbiLogique diagram which has been constructed to show the electrical connections. It has no active components in it and does not generate any program elements for uploading into the PLC.

The second sheet shows the program for the PLC.

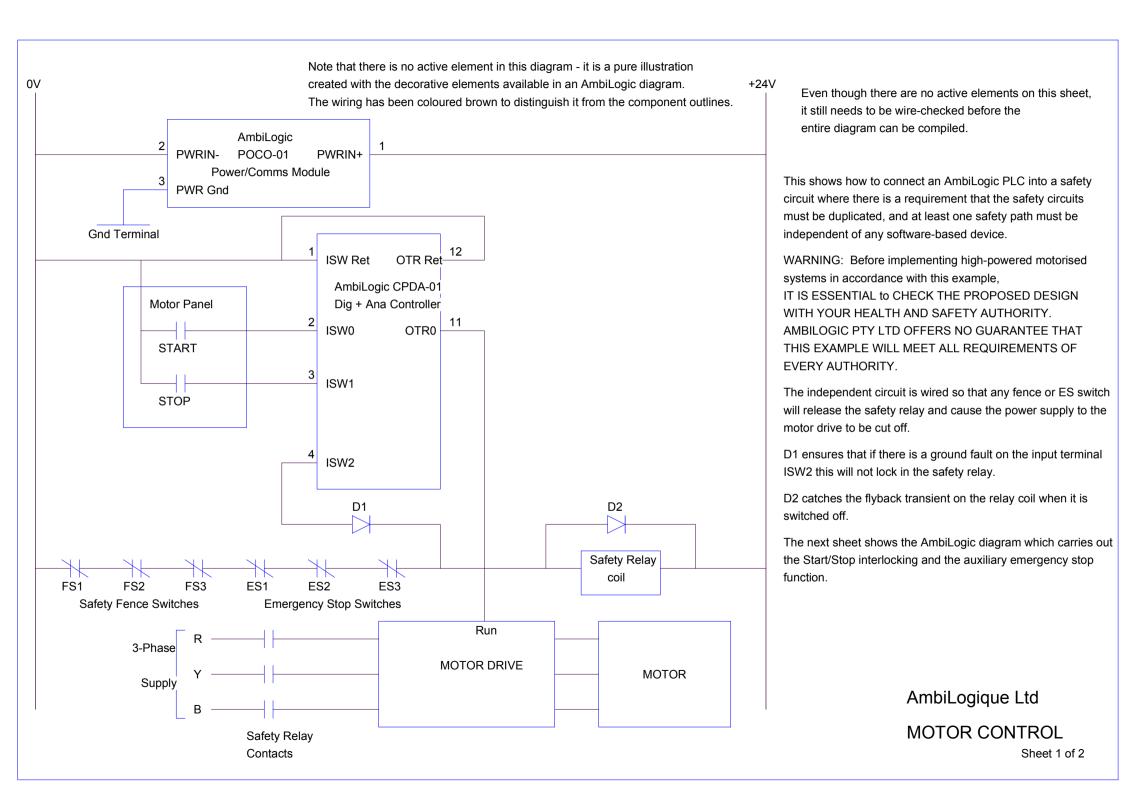
A classic cause of accidents involving motorised machinery is when the machine is being worked on with the motor stopped, and the safety fence open. It sometimes happens that the mechanic has inadvertently pressed the Start button with clothing or tools in pockets whilst leaning over the machine, and closes or defeats the fence. Under these conditions, an unexpected motor start can occur.

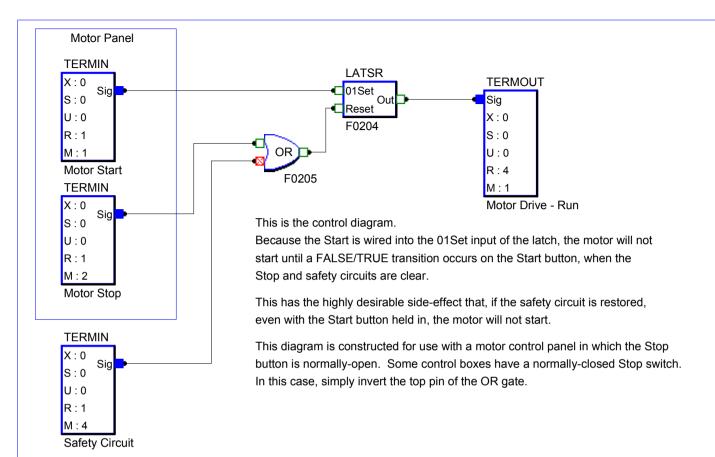
With the arrangement shown in this example, an unexpected start will not occur. It is necessary to close the fence, reset all the emergency stops, then actively press the Start button (i.e. change it from not-pressed to pressed) before the motor will start.

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MOTOR CONTROL