



# Axis Controls

CONTROL PANELS & PLC AUTOMATION SYSTEMS

Axis Controls manufacture a wide variety of industrial control panels for general use, within a manufacturing or OEM setting.

The Underwriters Laboratory (UL) organisation defines these as; ***a control panel intended for installation in accordance with the general use requirements in Chapter 4 of the National Electrical Code, ANSI/NFPA 70.***

This means, that an industrial control panel is an assembled piece of electrical equipment that consists of two or more of the following;

- a. Power circuit components only, such as; motor controllers, overload relays, fused disconnect switches and circuit breakers
- b. Control circuit components only, such as; push buttons, pilot lights, selector switches, timers, and control relays
- c. A combination of power and control components.

One aspect of electrical control panels for an industrial setting, in line with the National Electrical Code (NEC) they should be marked clearly with the following information;

- a. Manufacturers name, trademark or other descriptive marking by which the organization responsible for the product can be identified
- b. Supply voltage, number of phases, frequency, and full-load current for each incoming supply circuit
- c. Short circuit rating of the industrial control panel.



Continually meeting all of the standards set out by the NEC, ensured that we would be able to apply for UL 508a certification; so we can design, manufacture and dispatch control and automation solutions for the US and Canadian markets.

By carrying certification for UL 508a standards, we are subject to periodic unannounced inspections by UL representatives, to ensure that we are continuing to meet the expectations and requirements of the UL rating; ensuring standardized quality, safety and reliability.

So, how do we comply with the UL 508a standards?

- a. We calculate the short circuit current rating (SCCR) for the entire electrical control panel and ensure this calculated rating is shown on a label located within the control panel,
- b. Where specified Axis Controls provide labels indicating the proper size and type of fuses to be used in control panel maintenance,
- c. Within the control panel, we arrange components in a way that follows the minimum air-space requirements determined by UL,
- d. We include a series of “as built” drawings within the control panel when it is dispatched to you,
- e. When requested, we use markings to indicate the proper torque ratings on the electrical connections as specified by the component manufacturer,
- f. Each control panel indicates the correct use and location of E-Stop buttons with yellow legend plates, as specified by UL,
- g. All components used by Axis Controls are certified as safe for use under the UL 508a certification.