



July 5, 2022

SUMMARY OF REQUIREMENTS

The following is a summary of the new and revised paragraphs in the Standard for Industrial Control Panels, UL 508A, 3rd Edition, published in various bulletins dated April 16, 2020, August 6, 2020, July 13, 2021 and August 5, 2021, which have an effective date of September 1, 2023, and the action that may be required to determine compliance. Requirements itemized in Table 1 will be enforced on the Effective Date. Table 2 summarizes new/revised requirements that are not being enforced on the effective date (additional details provided within the Heading of Table 2).

As these new and revised paragraphs were issued in different bulletins, the table below includes the date of the revision bulletin of the standard to identify when the new and revised paragraphs were issued.

Also note that an asterisk *, along with **bold text** in the last column (“Effect of Revision”) indicates the revision resulted in a requirement that is more rigorous than what was required by the standard before the revision was published.

TABLE 1 – EFFECTIVE DATE SEPTEMBER 1, 2023

Paragraphs/ Table	Date Revision Issued	General Subject and Comment	Effect of Revision
37.1.1	4/16/20	Connectors for Use in Data, Signal, Control and Power Applications - ECBT2 Connectors Used in Control Circuits	These connectors were previously allowed only for use in power circuits. They are now acceptable in control circuits as well.
28.3.2, 28.3.8, 28.3.9, 31.6.1, 31.6.3, 31.6.4	4/16/20	Sizing of Branch Circuit Protection for Heater Loads	Existing requirements clarified as applying to fixed electric space heating loads. New requirements added applying to industrial process heating loads.
66.11.2	4/16/20	Emergency Stop Devices in Panels	*E-stop devices are now required to be Listed.
32.3.1, 66.7.4	4/16/20	Sizing the Feeder Overcurrent Protection for All Types of Panels	*New requirements added for sizing overcurrent protection for feeder circuits.
32.3.1, 66.7.4, SB4.3.3, Appendix A	4/16/20	Addition of Class CF fuses	Allows the use of Class CF fuses
55.4	4/16/20	Multiple Disconnect signs	*Added “Warning” as a type of marking. A risk assessment is required to justify the type of marking to be used, “Warning” or “Caution”

Paragraphs/ Table	Date Revision Issued	General Subject and Comment	Effect of Revision
Section 55	4/16/20	Revision to Markings	Editorial change of "Cautionary" to "Hazard."
31.4.1(c)	4/16/20	Revision to correlate with NEC 430.53(C)(1)	Clarification of sizing of branch circuit protection for motor groups
4.5, SB4.2.4, Appendix D	4/16/20	Bus Bar Construction Requirements for 100kA SCCR Without Testing	Assigning SCCR ratings to specific busbar constructions without testing
2.28A, 66.1.2 – 66.1.3.2, 67.4.2, 67.4.3	4/16/20	Door interlocking / Restricted Access to Enclosures	Clarification of door interlocking/enclosure access requirements to align with NFPA 79
29.1.3, 66.5.1.1, 66.5.2, 66.9, 66.9.2	4/16/20	Color Coding of Conductors and Identification Of Terminations	Deletion of the requirement applying to all panels, that all conductors shall be identified at each termination point. This requirement now applies only to industrial machinery panels.
Table SB4.2	4/16/20	Correction of 700A Class T Fuse Let-through	Correction to Table SB4.2
42.2.3.1 Exception No. 2	4/16/20	Added UL 61010-2-201	Allows the use of power supplies certified to UL 61010-2-201
66.5.3	4/16/20	Editorial correction	Exception was revised to correctly reference Table 66.2 instead of Table 66.3.
41.1, 42.3.1	8/6/20	Reference to Table 28.1 or 38.1	Editorial correction changing "and" to "or."
45.1.1	8/6/20	E-Stop in General Use Panels	Adding E-stop devices as switching components
10.2, Table 10.1A, Table 10.2, 31.4.1, 50.1, 66.6.1, 75.6.2, 78.1, 98.3.1, Table SB4.1	8/6/20	Updated Requirements for Panels Rated 1000v Max Supply Voltage	Adding various requirements necessary for panels rated 1000v maximum
10.9, 28.2.5	8/6/20	Revise Spacing Requirements Applicable to Receptacles, Attachment Plugs, and Inlets	Clarification of spacing requirements for specific equipment
30.1.8	8/6/20	Revision for fused disconnect switches	Clarification of requirements for fused disconnect switches
2.33	8/6/20	Revised Definition for Low-Voltage Limited Energy Circuit	Expands definition for low-voltage limited energy circuits to include 60 volts dc

Paragraphs/ Table	Date Revision Issued	General Subject and Comment	Effect of Revision
26.3.1, 26.1.1	7/13/21	Exception for Enclosure Air Conditioners	Allows air conditioners supplied from a control transformer or power supply to comply with the requirements for control circuits
Table 52.1	7/13/21	Marking Locations	Allows the main nameplate to be provided on the door or cover or inside walls of the enclosure
67.2.1 and 67.2.3	7/13/21	Emergency Stop Button Legend Plate	E-stops that comply with color requirements do not need a legend plate
Table 38.1	7/13/21	Ampacities of Control Circuit Conductors	Conductor sizes 28 and 30 AWG may also be used for jumpers or special wiring applications. Conductor sizes 20 through 30 are only used for connection of electronic control devices.
Table SB4.2	7/13/21	Addition of Limits for 225A Class CF Fuses	Added peak-current and I^2t values for 225 A Class CF fuse
Clause 30.3.6 Exception No. 3	7/13/21	Typo	Exception No. 3 was revised to correctly reference 30.1.3 instead of 30.1.4.
30.2.2	7/13/21	Clarification of Locked-rotor Currents	*Clarifies the assignment of locked-rotor current values for three phase motors and for DC motors.
Section 19; Table 19.1, 19.3, Table 19.2, Table 19.3 and 19.4	7/13/21	Enclosure Derating Table	* Replaces existing Tables 19.2 and 19.3 with new Table 19.2 covering both enclosure rating and derating when components are mounted through openings of an enclosure.
1.24	7/13/21	Equipment Covered by the Standard for Controllers for Use in Power Production, UL/ULC 6200	*Clarifies that panels for use in power production equipment (generator) control are excluded from the scope of UL 508A. Panels for these applications cannot be certified to the requirements of UL 508A.

Paragraphs/ Table	Date Revision Issued	General Subject and Comment	Effect of Revision
28.1.4	7/13/21	Field Wiring – Back-fed Circuit Breaker	*Clarifies that a plug-in circuit breaker installed in a panelboard that is intended to be back-fed by means of a field wired supply conductor connected to its load terminal, shall be secured in place by an additional fastener that requires other than a pull to release the device from the mounting means.
28.1.1, 60.4, Table 52.1	7/13/21	Bus Bars Intended for Field Installation of Pressure Wire Connectors, Cable Lugs and Similar Termination Devices	Added instructions and markings covering the field installation of pressure wire connectors, cable lugs and similar termination devices to busbars
66.7.1	7/13/21	Standards for Class L and Class CF Fuses	Added references to standards covering class L and Class CF fuses
Section 35	7/13/21	Low-Voltage Limited Energy Circuits in Power Circuits	Added requirements for low-voltage limited energy circuits supplied from a power transformer
10.2	7/13/21	Spacings at Field Wiring Terminals at the Supply Side of Industrial Control Panels	Added reduced spacing requirements at field wiring terminals for the panel supply connection where the branch circuit protective device protecting a branch circuit in the panel is installed in the field
31.1.4	7/13/21	Clarification for Self-protected Combination Motor Controllers or Manual Self-protected Combination Motor Controllers Used as Branch Circuit Protection for Motor Circuits Only	Restricts a self-protected combination motor controller or a manual self-protected combination motor controller for use only as branch circuit protection for single motor circuits.

Paragraphs/ Table	Date Revision Issued	General Subject and Comment	Effect of Revision
33.1.2, 34.1.2, 42.3.1, 90.4.2, Appendix A	7/13/21	Replacement of Reference to UL 508C with UL 61800-5-1	UL 508C has been withdrawn as a published standard. However, products certified to UL 508C will continue to be accepted in industrial control panels as many certifications to UL 508C remain active.
Table 52.1	8/5/21	Correction of an Error for Locations of Required Markings	The entry in Table 52.1 for paragraph 67.1.1 was revised to delete Note "a" in the column titled "Open" and replace it with a dash (-) indicating it does not apply.

TABLE 2 – EFFECTIVE DATE TBD

A future effective date will be established for these requirements when a sufficient number of products are available to satisfy the new/revised requirements and address the needs of the marketplace.

Paragraphs	Date Issued	General Subject and Comment
36.4.1, 36.5, 47.1.4, 47.1.6, 47.4, SB4.2.1, Table SB4.2	4/16/20	SCCR for Filters in Panels - The availability of filters that have SCCR ratings to satisfy the needs of the marketplace is limited. A future effective date will be established to allow manufacturers of filters sufficient time to establish SCCR ratings to address the needs of industrial control panel manufacturers.