CUSTOM INDUSTRIAL CONTROL PANELS

UL508A PANEL FABRICATION

Control panels engineered, built, tested and labeled in our UL508A listed shop, from single enclosures to multi-section lineups.



UL508A
Listed shop, labeled panels

Up to 600Vac
Single or three phase systems

Turnkey
Design, build, programming and commissioning

PROKUMA
ENGINEERING · AUTOMATION · PROCESS CONTROL

Contact us today!

+1 812-568-1746
sales@prokuma.com
www.prokuma.com

Panels We Build

- PLC control panels
- Motor control panels
- VFD and drive panels
- Heater power controls
- Power distribution panels
- Retrofits and upgrades

Standard Shop Capabilities

- Built and labeled in our UL508A listed shop
- SCCR calculated and marked on every panel
- Single or three phase systems up to 600Vac
- Type 1, 12, 4 and 4X enclosures
- Single enclosures to multi-section lineups
- Scaled back-panel layout before fabrication
- DIN rail and slotted wire duct construction
- Wires labeled at both ends to match drawings
- Ferruled conductor terminations
- Color-coded power, control and DC wiring
- Torque-verified, torque-marked terminations
- Point-to-point wiring verification
- Powered I/O and functional checkout
- PLC, HMI and VFD integration
- Filter fan, vent or A/C panel cooling
- Bilingual nameplate and warning labels
- Full drawing package with every panel
- Customer-specified components and vendors

Options

- Panel design and engineering
- PLC and HMI programming
- Field installation and commissioning
- EtherNet/IP and Modbus TCP networking
- Power monitoring
- SCCR rating up to 100kA
- Enclosure air conditioning
- Customer-witnessed FAT
- Other customizations for your application

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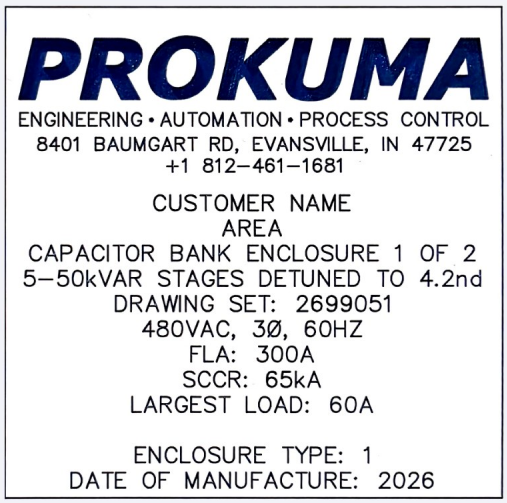
Why UL508A

Listed and Labeled

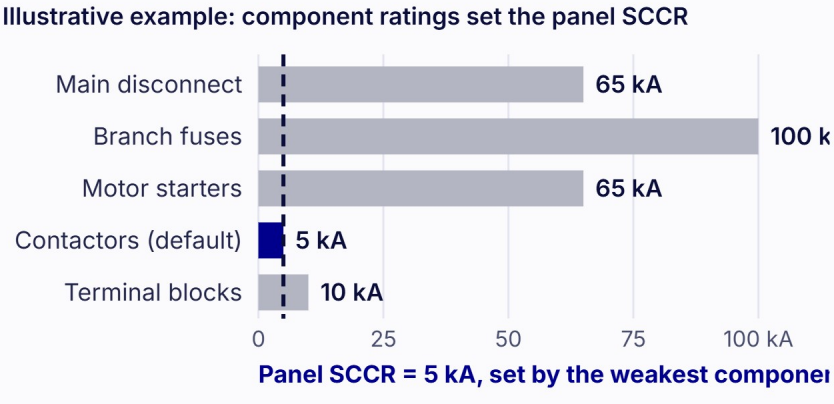
UL508A is the UL standard for enclosed industrial control panels. The label tells your inspector the panel was built to it.

Panels built in a UL508A listed shop carry the UL listing mark, and the shop is subject to periodic, unannounced UL inspections. A labeled panel is accepted by most electrical inspectors and industrial owners as built, without a costly field evaluation after installation.



A typical enclosure nameplate, applied in addition to the UL508A label.

Short-Circuit Current Rating (SCCR)



Rated for your fault current

NEC Article 409 requires every industrial control panel to be marked with its SCCR, at or above the fault current available where it is installed. Under UL508A Supplement SB, the lowest-rated power component sets the panel rating. We calculate it on every panel and design up to 100kA.

Standards We Build To

UL508A

Construction, ratings and labeling of control panels

NEC Article 409

Installation rules, including SCCR marking and surge protection

NFPA 79

Industrial machinery wiring, when specified

Your specs

Your drawing standards and preferred vendors

From Drawing to Delivery

Engineering, fabrication and testing happen under one roof, and every step is checked against the drawings.

01 Engineer

Schematics, layout and bill of materials, reviewed with you before we buy parts.

02 Procure

UL-recognized components from your vendors or ours, checked against the BOM.

03 Lay out and mount

Back panel drilled to a scaled layout; rail, duct and devices mounted.

04 Wire

Color-coded, labeled, ferruled (as-required) and torqued to manufacturer specs.

05 Test

Point-to-point verification, then powered I/O and functional checkout.

06 Label and ship

UL label and nameplate applied, as-builts issued, panel crated.

Built to Be Serviced



A finished 100kW heater power control system from our shop.

A panel spends decades in service. We lay it out for the technician who opens the door at 2 a.m.

- Wire duct sized with room to spare for future changes
- Terminal blocks grouped and numbered by function
- Field wiring landed on terminals, not devices
- Devices labeled on the back panel to match the drawings
- Ventilation and heat load checked for each enclosure
- Clear working space around disconnects and drives

Your standards, too. Send us your plant's panel specification and we will build to it.

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Tested Before It Ships

> Problems are cheapest to fix on our shop floor, not yours. Every panel runs the same four-stage checkout, and the results ship with it.

Checkout Sequence

Visual and torque
Inspection against the layout, with every termination torque-checked and marked

Point-to-point
Each wire verified against the schematic before power is applied

Power-up and I/O
Control power applied and every input and output exercised

Functional test
Sequences, interlocks, drives and HMI screens run as designed

Witness testing. Schedule a factory acceptance test at our Evansville shop and see your panel run before it ships.

What Ships With Your Panel

- Electrical schematics and panel layout drawings
- Bill of materials with manufacturer part numbers
- SCCR calculation for the panel
- Completed test checklist, signed and dated
- As-built drawing revisions and also For Record drawings after installation upon request
- PLC and HMI program backups when we program
- Recommended spare parts list



Labeled, tested and ready to install.

GET IN TOUCH

LET'S BUILD YOUR PANEL.

Send us your drawings or a description of the equipment and we will quote a UL508A panel built for it.

What to have ready

- **Supply.** Voltage, phase, and the available fault current at the installation
- **Loads.** Motors, heaters and drives, with HP or kW and quantities
- **Controls.** PLC and HMI platform, I/O count and networking
- **Enclosure.** Type rating, material, mounting and any size limits
- **Drawings and specs.** Existing schematics, plant standards and preferred vendors
- **Schedule.** Required ship date and whether you want a witnessed FAT

Scan to visit **www.prokuma.com**

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Evansville, IN 47725

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