



Industrial Control Equipment – UL 508

Making global gains with certified product distinction.

Top industrial control equipment manufacturers around the world choose UL to help them in obtaining the necessary certifications for country-specific compliance. UL's wide range of safety, performance, and compliance services provides the reliable credentials and assurance necessary for gaining global market access and differentiation for industrial control products. When you collaborate with UL, we can assist you at every stage of your product's development to accelerate acceptance and deployment, including the very earliest design phase. Our goal is to help your business bring safe industrial control equipment to your customers quickly, easily and efficiently.

Testing the limits

UL services ensure quality and competitive advantage in industrial control devices, such as:

- Manual, magnetic, and solid-state starters and controllers
- Thermal, magnetic, and solid-state overload relays
- Pushbutton stations, including selector switches and pilot lights
- Control circuit switches and relays
- Float, flow, pressure, and vacuum-operated switches
- Resistors and rheostats
- Proximity switches
- Time-delay relays and switches
- Resistors and rheostats intended for industrial heating and lighting including those for motor generator fields
- Control devices intended for industrial heating and lighting
- Solid-state time-delay relays
- Programmable controllers
- Numerical control systems
- Lighting dimmer systems and controls
- Mercury-tube switches
- Definite purpose controllers
- Solid-state logic controllers
- Industrial microprocessor/computer systems
- Variable voltage autotransformer
- Motor starting autotransformer

Benefits of partnering with UL

Global recognition

The UL brand is known and trusted around the globe. UL is a leading force in the research and development of global regulatory standards across a wide spectrum of industries, including industrial control equipment.

Industry experience

For over 100 years, expert UL engineers and labs have delivered valuable insight into the current landscape and future course of industrial control equipment technology, regulations and markets trends.

Benchmark portfolio

The UL industrial control equipment service spectrum ranges across advisory services and testing to inspection and certification. All of our services include privileged access to our expert global engineering resources.

Collaborative advantage

UL is committed to partnering with you to find clever solutions that take into account your individual needs and goals, and increase the value, acceptance and marketability of your products worldwide.

Bottom-line impact

UL identifies harmonized requirements and gaps in the applicable international standards, developing a testing approach that expands your market presence while lowering your costs in time and money.

Protecting products, markets and reputations

UL's global engineering and inspection staff knows that time-to-market is crucial. We reduce overall time and expense for testing, inspection & certification through the leveraging of our global knowledge network. In many cases, a single test program and bundled product certification is all it takes to gain market access to Europe, North America and Asia.



Testing and certification to UL 508

UL 508, the Standard for Safety For Industrial Control Equipment, covers industrial control and related devices rated 1500 volts or less used for starting, stopping, regulating, controlling, or protecting electric motors. This equipment is for use in accordance with the National Electrical Code, NFPA 70 in an ambient temperature of 0 - 40°C (32 - 104°F), and includes devices or systems that store or process information and are provided with an output motor control function. Requirements include:

- Temperature Test
- Overvoltage & Under voltage Test
- Overload Test
- Endurance Test
- Calibration Test
- Dielectric Voltage Withstand Test
- Short Circuit Test
- Standard Fault Current Test
- High Fault Current Test
- Transient Voltage Surge Suppression Test
- Accelerated Aging Test
- Breakdown Of Components Test

UL also tests and certifies to these critical industrial standards:

- **UL 218** Fire Pump Controllers
- **UL 508A** Industrial Control Panels
- **UL 508C** Power Conversion Equipment (adjustable-speed drive and accessories or modules for use with an adjustable-speed drive)
- **UL 845** Motor Control Centers
- **UL 60947-4-1** Low-Voltage Switchgear and Control Gear, Part 4-1: Contactors and Motor-Starters, Electromechanical Contactors and Motor-Starters
- **UL 61800-5-1** Adjustable Speed Electrical Power Drive Systems, Part 5-1: Safety Requirements, Electrical, Thermal and Energy



Advisory services

UL global entry advisory services assist manufacturers in understanding global regulatory requirements. Knowing in advance what is required means that customers can reduce high-cost testing and inspection at the installation site. UL also advises on:

- Risk management
- Supply chain management
- Customer satisfaction

Education and training programs

UL shares its knowledge and experience through a suite of education and training programs focusing on industry-applicable topics. These are available in formats including open, public workshops, private and customized on-site workshops, and web-based programs.

For more information, contact your local sales team, e-mail ULHELPS@ul.com or visit ul.com