

ARC ARMOR



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PRIMEX®

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The innovative, multiple compartment Arc Armor® system reduces exposure to arc flash and electric shock. A custom control solution using the Arc Armor® system can be designed for your application. The service disconnect and motor starters are isolated into separate compartments. These compartments are designed with electrical and/or mechanical locking mechanisms to only allow access to qualified service personnel with appropriate PPE.

The control logic circuitry is located in a separate compartment, where only control voltage is present (24VDC/120VAC). This unique design limits operator access and exposure to higher voltage electrical components capable of producing an arc flash due to accidental contact or wiring error. The Arc Armor® system can be part of your safety procedure with multiple access levels, clear warning signs, and a padlock on each door.

WHAT IS ARC FLASH?

With 5-10 arc flash incidents occurring per day, arc flash is a leading cause of death and burn accidents for maintenance staff when servicing electrical control panels in North America today.

On-site damages caused by an arc flash incident include: OSHA citations or fines, down time, loss of revenue and equipment damage. In worst case scenarios, arc flash may result in long term disability or even death thereby having a significant impact on the liability of the municipality. Arc flash events usually occur in less than 0.2 seconds.

FEATURES

- Patented enclosure design manufactured by an ISO 9000 certified company
- Reduces exposure to arc flash and arc blast with multiple compartment design and single wall construction
- Single sheet drip cap with rolled edge drip loops on free standing models
- 304L stainless steel construction (wall mount model is also available in mild steel)
- Electrostatically precipitated white polyester powder coating that reduces heat buildup
- Three-point padlockable latches
- Free standing, wall mount and pole mount versions available
- NEMA 3R/4X rating available (varies by enclosure)
- Sizes available for most any application



APPLICATIONS AND CUSTOMIZATION

PRIMEX® can engineer a customized control solution using the Arc Armor® system to meet your individual specifications. Common applications include: Lift Stations, Booster Stations, Storm Water, Irrigation, Industrial and more.





UNIQUE MULTIPLE COMPARTMENT SYSTEM DESIGN

»»»» ZONE 2 - Motor Starting Compartment

- **Danger Zone:** Entry is limited when energized to service personnel with proper NFPA 70 safety gear or may be "Lockout/Tagout" protected for unrestricted access
- Voltage presence indicator alerts operator to high voltage danger
- Can be completely de-energized from line voltage
- Motor control devices that are full voltage rated
- Isolated from potential corrosive gases

»»»» ZONE 1 - Service Compartment

- **Danger Zone:** Contains the most dangerous arc flash potential and risk of electrical shock
- Entry is limited to authorized personnel only and proper Personal Protection Equipment (PPE) must be used
- All service entrance devices and conductors are confined to this compartment to avoid accidental contact or faults
- Isolated from potential corrosive gases
- Locker-style service entrance

»»»» ZONE 3 - Control Compartment

- **Operator Safety Zone** (120VAC or lower only)
- Minimum PPE required
- Houses all sensitive control devices and maintains complete isolation from high energy power components
- System operation and low voltage troubleshooting can be accomplished while being isolated from potential arc flash risks
- Isolated from corrosive gases

»»»» ZONE 4 - Skirt Compartment

- **Gas Isolation Zone:** Provides gas isolation from wet well in wastewater lift station applications
- Can be used to house the control transformer
- Vented space for sealing cable penetrations

For more information on a customized Arc Armor® solution, please contact your PRIMEX® Control Solutions Provider!



ABOUT PRIMEX®

PRIMEX® delivers over 40 years of expertise in pump controls and hundreds of years of combined engineering and electrical controls experience while using the latest technology to deliver energy efficient, cost effective products for customers.

We don't have employees; we have employee-owners who have a vested interest in the success of our customers' projects. We are 100% committed to developing customer partnerships by providing fast turnaround on quotes, submittals and delivery; maintaining high standards for quality and reliability; and investing in the research and development of innovative new products to expand our broad product offering.

Multiple design and production facilities located across the United States ensure customers seamless, high quality pump control solutions. PRIMEX® control systems carry UL 508A, UL 698A, UL NNNY, CSA Certification and other agency approvals as specified.

We're proud to be an active supporter of these industry associations:



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