



**MACROMATIC**

Better. By Design.



**WATER AND  
WASTEWATER  
CONTROL  
SOLUTIONS**

**PUMP UP YOUR PRODUCTIVITY**

## THREE-PHASE MONITOR RELAYS

Three-Phase Monitor Relays utilize True RMS sensing to protect motors against premature failure caused by voltage faults such as phase loss, phase unbalance, phase reversal and over/under voltage.

- Line-line voltages available from 120-600V AC
- LED status indication for normal & fault conditions
- Protection against single phasing regardless of any regenerative voltages
- Industry-standard 8-pin plug-in or DIN rail mounted version available

## VOLTAGE MONITOR RELAYS

AC single-phase & DC Voltage Monitor Relays protect equipment against abnormal voltage conditions.

- Monitored ranges include 120-480V AC & 12-110V DC
- Both fixed or adjustable hysteresis & time delay on drop-out
- LED status indication for normal & fault conditions

## ALTERNATING RELAYS

Duplex or Triplex Alternating Relays for optimization of pump usage by equalizing the run time of two or three pump motors.

- Duplex output configurations: SPDT, DPDT or DPDT cross-wired
- Two LED indicators show the status of the output relay alternator sequence
- Optional three position selector switch is available to lock out alternation

## PUMP SEAL FAILURE RELAYS

Pump Seal Failure Relays to protect submersible pump motors against seal leakage and to provide indication of seal leakage before premature motor failure.

- Both single and dual channel versions are available
- Two sensitivity ranges: 4.7K to 100K & 10K to 250K ohms
- Relay output and LED indication of seal leak detection
- Combination seal leak and overtemperature relay also available

## INTRINSICALLY SAFE RELAYS

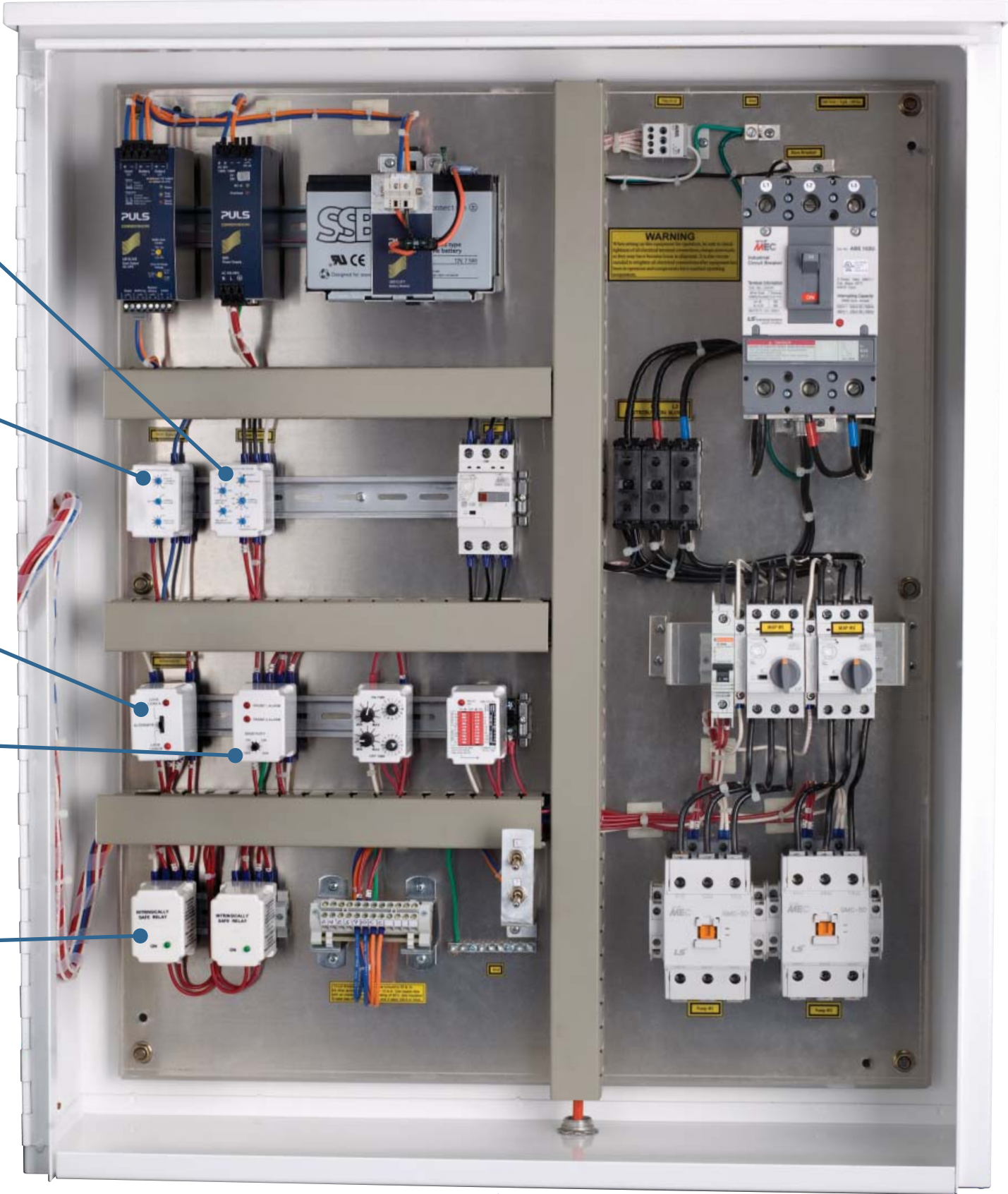
Intrinsically Safe Relays provide a safe and reliable method to control a load with an input device located in a hazardous area.

- Provides low-cost alternative to explosion-proof enclosures
- Single channel (one input device & one output load)
- LED indicator shows the status of the output relay
- Meets UL913

Macromatic Products Meet the Following Standards and Approvals



# PUMP UP YOUR PRODUCTIVITY WITH MACROMATIC CONTROLS



**CURRENT MONITOR RELAYS & TIME DELAY RELAYS ALSO AVAILABLE**

**MACROMATIC**



## TIME DELAY RELAYS

The leader in Time Delay Relays | Most extensive line in the industry

- Single or multi-function versions
- Single or programmable time ranges
- Analog or digital-set time delay
- 4 mounting configurations: plug-in, encapsulated, 1/16 DIN, 17.5mm



## CURRENT SENSING RELAYS

Current Sensing Relays protect equipment or control a process.

- Monitored AC current ranges from 0.1-50A
- Fixed or adjustable hysteresis & time delay on pick-up/drop-out available
- LED status indication for normal and fault conditions
- Plug-in or encapsulated

## MACROMATIC'S PRODUCT LINE

- Three-Phase Monitor Relays
- Alternating Relays
- Time Delay Relays
- Pump Seal Failure Relays
- Liquid Level Control Relays
- Voltage Monitor Relays
- Current Sensing Relays
- Intrinsically-Safe Relays
- Custom-Engineered Controls
- Accessories

## ABOUT MACROMATIC INDUSTRIAL CONTROLS

Located in Menomonee Falls, Wisconsin, Macromatic Industrial Controls engineers and manufactures industrial relays that control electrical processes and monitor power for damaging fault conditions. Providing solutions for most applications in any industry, Macromatic specializes in the HVACR, pump control, material handling, motor control, generator, and lift and elevator industries.

As an independently-owned manufacturer of state-of-the-art control and monitoring products for over 40 years, Macromatic takes pride in its short lead-time, flexible product design, and exceptional technical support.



- Five Year Warranty
- Short lead-times
- Superior customer service
- Advanced technical support
- Products meet UL and CE
- RoHS manufacturing



All Macromatic plug-in and encapsulated products are either UL Component Recognized (UR) and CSA or UL Component Recognized combined with Canadian approval (cURus). All plug-in products are UL listed when used with the appropriate socket. All DIN-rail mount products are UL Listed combined with Canadian approvals (cULus). Many products meet CE requirements. All Macromatic products are RoHS-compliant, ensuring they meet the latest requirements for protecting the environment.

**800.238.7474 | WWW.MACROMATIC.COM | SALES@MACROMATIC.COM**