

Better. By Design.

### THREE-PHASE MONITOR RELAYS

#### PROTECT MOTORS AGAINST PREMATURE FAILURE

- Variety of products offer protection against phase loss, phase reversal, phase unbalance & under/over voltage
- Line-line voltages from 120-575V



- Bi-color LED status indication for normal & fault conditions
- Protection against single phasing regardless of any regenerative voltages
- Retains fault indication & continues monitoring all voltages even with phase loss



### ALTERNATING RELAYS

#### EQUALIZE THE RUN-TIME OF MULTIPLE PUMPS & COMPRESSORS

- Duplexor (2 loads) in SPDT, DPDT & DPDT Cross-Wired output
- Triplexor (3 loads) with 3PNO output
- Optional top-mounted switch for normal or lock-out modes
- LED indication of alternating sequence



### VOLTAGE MONITOR RELAYS

#### PROTECT EQUIPMENT AGAINST ABNORMAL VOLTAGE

- Monitored ranges include 24-240V AC single-phase & 12-110V DC
- Both fixed or adjustable hysteresis & time delay on drop-out
- Bi-color LED status indication for normal & fault conditions



### SEAL LEAK & TEMPERATURE RELAYS

#### MONITOR SUBMERSIBLE PUMPS FOR SEAL LEAKAGE & OVERTEMPERATURE

- Seal Leak Relays indicate leaking seal before pump failure
- Both Single & Dual channel versions available to monitor 1 or 2 pumps



- Dual function relay monitors for both seal leak & over temperature condition of a single pump
- Two sensitivity ranges: 4.7K to 100K ohms & 1K to 250K ohms
- Bi-color LED status indication of seal leakage



### CURRENT SENSING RELAYS

#### PROTECT EQUIPMENT OR CONTROL A PROCESS

- Monitored AC current ranges from 0.1-50A (extend range using external current transformer)

- Fixed or adjustable hysteresis & time delay on pick-up/drop-out available

- LED status indication for normal & fault conditions



### LIQUID LEVEL CONTROL RELAYS

#### DETECT & MONITOR LEVELS OF CONDUCTIVE LIQUIDS

- Pump Up & Pump Down versions available
- Single & Dual Probe applications
- Two sensitivity ranges: 4.7K to 100K ohms & 1K to 250K ohms
- Bi-color LED status indication
- Factory-fixed time delays



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### TIME DELAY RELAYS

**THE LEADER IN TIME DELAY RELAYS | MOST EXTENSIVE LINE IN INDUSTRY**

- Single or multi-function versions
- Single or programmable time ranges
- Analog or digital-set time delay
- Available with standard and custom functionality for all applications
- 4 mounting configurations: Plug-in, Encapsulated, 1/16 DIN, 17.5mm



Plug-in



Encapsulated



1/16 DIN



17.5mm

### ABOUT MACROMATIC

Macromatic is a highly-responsive, independently owned manufacturer of industrial control and monitoring products. Located in Menomonee Falls, Wisconsin, Macromatic's highly trained team uses state-of-the-art equipment and proven quality control methods to produce products with superior performance.

With over 40 years of experience, Macromatic makes it easy to find a cost-effective solution for your application.



### INDUSTRIES SERVED - PLUS MORE

- |                              |                       |
|------------------------------|-----------------------|
| • Water/Wastewater           | • Elevator Control    |
| • Motor Control & Protection | • Pump Control        |
| • Material Handling          | • Packaging Equipment |
| • Generator Control          | • Car Wash Systems    |
| • Food & Beverage Processing | • HVAC                |
| • Irrigation                 | • Compacting          |

### CUSTOM ENGINEERED PRODUCTS

**FOR SPECIAL REQUIREMENTS**

- Provides engineering and design assistance with documentation
- Quick turnaround on prototypes and production
- Knowledge and experience to obtain agency approval on custom products
- Specials may be included under the approval of Macromatic's own standard products which saves time and money

### WHY CHOOSE MACROMATIC?

- |                      |                              |
|----------------------|------------------------------|
| • Five-year warranty | • Advanced technical support |
| • Short lead-times   | • Superior customer service  |



### VISIT [WWW.MACROMATIC.COM](http://WWW.MACROMATIC.COM)

- |                               |                      |
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| • Cross-reference guide       | • FAQs               |
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