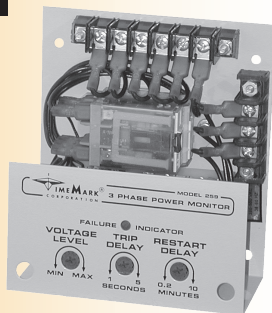


### 3-Phase Monitors w/ Restart and Trip Delay

#### MODEL 259

The 259 can protect the same kind of equipment as the model 2652, but the model 259 is not UL recognized. However, it does have 600 VAC rated contacts.

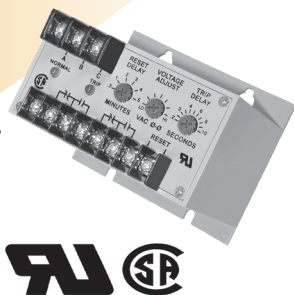


This allows the 259 to be used in conjunction with shunt trip breakers. It is also popular in locations that do not have control power transformers.

The 259 has adjustments for low voltage, trip and re-start delays. The open style case allows excess heat to dissipate from the unit.

#### MODEL 2652

The model 2652 is designed to protect HVAC equipment, compressors, pumps, air compressors, etc. The 2652 protects against phase loss, low voltage and phase reversal.



With correct power applied, the DPDT output contacts transfer and drop out when a fault condition or loss of power occurs. An adjustable trip delay prevents nuisance tripping. The restart delay timer prevents short cycling, which is primarily used with HVAC and compressor motors.

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# PROTECTING YOUR EQUIPMENT

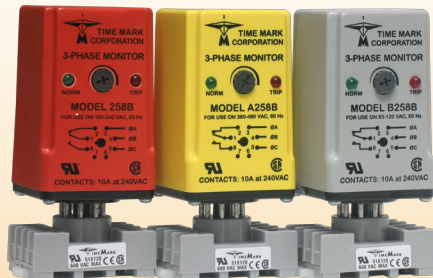
## 3-Phase Monitors w/ Quick Trip/No Restart

### MODEL 257



The Model 257 continuously monitors 3-phase power lines for abnormal conditions. When properly adjusted, the Model 257 monitor will detect phase loss on a loaded motor even when regenerated voltage is present.

This device consists of a solid-state voltage and phase-angle sensing circuit, driving an electromechanical relay. When correct voltage and phase rotation are applied, the internal relay will energize. A fault condition will de-energize the relay. When the fault is corrected, the monitor will automatically reset (a manual reset version is also available).



### MODEL 258



The Model 258 continuously monitors 3-phase power lines for abnormal conditions. When properly adjusted, the Model 258 Monitor will detect phase loss on a loaded motor even when regenerated voltage is present.

This device consists of a solid-state voltage and phase-angle sensing circuit, driving an electromechanical relay. When correct voltage and phase rotation are applied, the internal relay will energize. A fault condition will de-energize the relay. When the fault is corrected, the monitor will automatically reset (a manual reset version is also available).

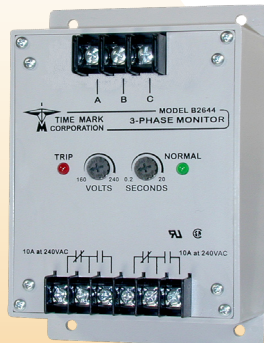
## 3-Phase Monitors w/ Trip Delay

### MODEL 269



The Model 269 Over & Under 3-Phase Monitor continuously monitors 3-phase lines for high voltage, low voltage, phase loss or phase reversal. This device features a solid-state voltage and phase angle sensing circuit, which drives a SPDT output relay.

The Model 269 is independent of the system load, and may be used on any horsepower motor. When phase sequence is correct, and the voltage remains between the upper and lower trip points, the output relay remains energized. When a fault condition is sensed, the output relay drops out.



### MODEL 2644



The Model 2644 3-Phase Monitor continuously monitors 3-phase Wye or Delta systems for abnormal conditions.

The solid-state electronic sensing circuitry drives an internal DPDT relay, allowing the Model 2644 to operate two motor control circuits, or a control circuit and an alarm circuit. An adjustable trip delay reduces nuisance tripping caused by momentary voltage fluctuations on motor start-up.

An optional restart delay gives approximately a 3.5 minute delay when the relay drops out, to allow compressor head pressures to bleed off, in the event of short-term power failures.

## 3-Phase Monitors w/ Restart Delay

### MODEL 158BR



The 158BR has a single adjustment for low voltage. The 158BR protects against phase loss, low voltage and phase reversal. The "R" is for a fixed restart delay of approximately 5 minutes.

### MODEL 265



The 265 has two adjustments; one for low voltage, the other for the restart delay. Since the 265 has no trip delay, locations with a poor voltage regulation and/or large inductive loads, will have to have their trip point lowered, to keep from having nuisance trips. The user adjustable restart delay allows up to five minutes for compressor head pressure to bleed off, in the event of short-term power failures. Use of multiple 265's can allow staged restarts if restart times are set differently.



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