MODEL 257

3-Phase Monitor

- Detects phase loss, low voltage, phase reversal
- 50 Hz, 60 Hz and 400 Hz models
- Automatic or manual reset
- Five year unconditional warranty

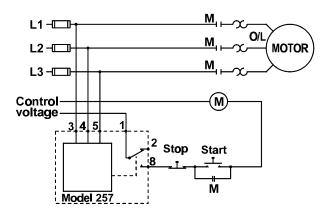
DESCRIPTION

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).

The Model 257 does not require a neutral connection and can be used with Wye or Delta systems. Voltage ranges are sufficiently wide to allow for proper adjustment to existing conditions. Both "TRIP" and "NORM" condition indicators are provided to aid in adjustment and system trouble-shooting.

TYPICAL APPLICATION



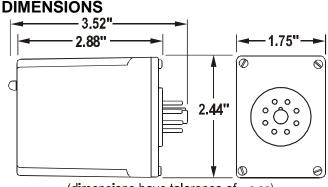


TIME MARK CORPORATION 3-PHASE

MONITOR MODEL B257B FOR USE ON IS-120 VAC. 60Hz

SPECIFICATIONS AUTO Reset B257B 257B A257B EX257B B257B-400 257B-400 MANUAL Reset B257BM B257BM-257BM-400 257BM A257BM EX257BN 400 Nominal AC voltage 120 vac 208/240 vac 480 vac 380 vac 120 vac 208/240 va (phase to phase) Case Color Grav Red Yellow Yellow Grav Red Adjustment range 85-120vac 160-240vac 380-480vac 300-400vac 85-120vac 160-240va Frequency 60 Hz 60 Hz 60 Hz 50 Hz 400 Hz 400 Hz 0.75W 0.75W 1.5W 4.5W 3.75W 1.5W Power consumption Transient protection 2500 VAC for 10msec Repeat accuracy ± 0.1% of set point (fixed conditions) Response time 50 msec (set or reset) Dead band Approximately 2% Output contacts SPDT 10 amps at 240 VAC resistive Expected relay life Mechanical: 10 million operations Electrical: 100,000 operations at rated load -40° to +131° F Operating temp 0 - 97% w/o condensation Humidity tolerance Enclosure material Dust cover: ABS plastic 8-pin socket (**sold separately) Mounting Weight 5 ounces Agency approvals UL Recognized* and CSA Certified *condition of acceptability: the 380V and 480V versions must be used with a UL Recognized 600 VAC socket

** Order 8-pin socket number 51X120



(dimensions have tolerance of ± 0.06)

