MCS-PHASE-B
Description & Specifications

Listed E53944

Part # **MCS-PHASE-B**

Description

The **MCS-PHASE-B** is a programmable 3-phase line voltage monitor, high temperature LCD display, easy setup and clear diagnostic readout of system faults. The MCS-PHASE-B was specifically designed to protect motors and other 3-phase loads from premature failure and damage due to common voltage faults such as unbalance, over/under voltage, phase loss, reversal, incorrect sequencing and rapid short cycling.

At power up, the MCS-PHASE-B evaluates the incoming power for proper phase sequence, amplitude and voltage unbalance. If the three phase input at the line side connections is within user-set parameters, the load energize LED is turned on and the internal relay is energized. Continuity will be across terminals 1 and 2. If connections are made to the load side terminals, the MCS-PHASE-B will transfer monitoring over to the load side only.

When a critical fault condition (phase loss or phase reversal) is present, the relay will immediately de-energize, the load-energized LED will turn off, the fault LED will flash, and the fault is written to memory. Continuity will be across terminals 1 and 3.

If a non-critical fault condition (unbalance, high or low voltage) is present, the MCS-PHASE will ignore it during the interrogation delay time. If it is still present following the interrogation delay time, the relay will de-energize, the load-energized LED turn off, the fault LED will flash, and the fault is written to memory. Continuity will be across terminals 1 and 3.

The relay will not energize if any fault conditions exist. The integral adjustment delay on break timer will prevent short cycling.

Specifications

MECHANICAL

Dimensions ..... 6.5” x 4.75” x 1.09”
Mounting ..... Surface mount using (2) #8 screws
Terminations ..... 1/4” quick connects
Weight ..... 12 ounces (341 grams)

Operating Temperature

Control ..... -40ºF to +149ºF (-40ºC to +65ºC)
Storage ..... -40ºF to +185ºF (-40ºC to +85ºC)

Input

Line Voltage ..... Universal, 190-600 VAC
Frequency ..... 50-60 Hz
Control Voltage ..... 18-240 VAC

Ouput

Type ..... SPDT Relay
Voltage Range ..... 277 VAC @ 6A maximum

Package contains:

2 #8 mounting screws,
3-KTK,1A,600V Fuses, 3-pole Fuse Block.

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