

F6831 EAC-805 Three Phase Motor Protector



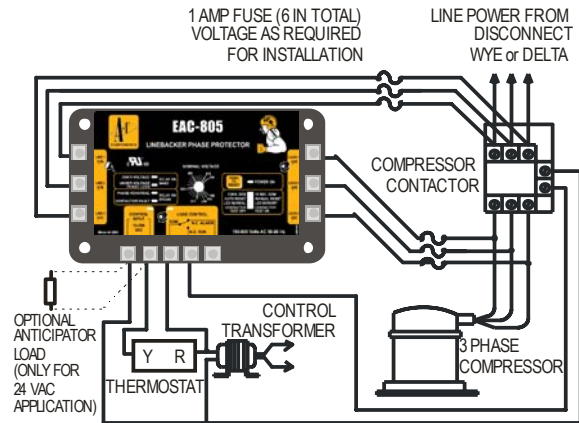
Features:

- Line Input Voltage: 190 - 600 VAC
- Load Side Voltage: 190 - 600 VAC
- Under/Over Voltage: Preset to 10% greater/lower than nominal voltage
- Phase Loss Protection
- Auto or Manual Reset
- Selectable LED mode: Normal or Memory
- Delay on Make - Fixed 15 seconds or Delay on Break - Fixed 5 minutes
- Control Voltage: 18 to 288 VAC 50/60 Hz. Controls relay when dip switch is in 5 min. DOB position
- Output Relay:
 - 10A/5A @ 240 VAC Resistive/GP
 - 10A/5A @ 28 VDC Resistive
 - 240VA, 240 VAC Pilot Duty
 - 12A NO @ 120 VAC Resistive/GP
- Operating Temperature: -20°C to +80°C (-4°F to +176°F)

preset delay, the EAC-805 will restart the system. If a critical system problem is detected the EAC-805 will wait for a manual restart. Additional internal circuitry continuously monitors the operation of the EAC-805's internal systems and initiates self correcting measures as required.

Installation is a snap with simplified connections and adjustment. Instant verification of all system conditions is conveniently accessible by simply checking the LEDs on the panel. The EAC-805's circuitry automatically adjusts for line voltage connections in the range of 190 to 600 volts. The EAC-805 package also includes an anticipator load, to be installed when required, to ensure the correct operation of mechanical and electronic thermostats when used in HVAC applications. Installing the EAC-805 affords the best three phase motor and compressor protection available without the use of current transformers. System operation using the EAC-805 is fully automatic with visible LED indicators providing convenient assessment of control voltage, load energization, and fault conditions. In the event of a line or contactor fault, the EAC-805 may keep the fault LEDs lit, making easy routine maintenance or service. The EAC-805 is easy to install and setup using the voltage selector knob and dip switch on the panel. Operator adjustment of the EAC-805 can be preset at the wholesaler or factory for simplified job site installation.

6 - WIRING DIAGRAM



Operation:

Three phase motors and compressors typically receive their power from generating stations miles away. This distance and other factors including thousands of connections to various users, lightning, and accidental damage to power lines and distribution equipment can cause varying or complete loss of power supplied to your expensive motor or air conditioner. Abnormally high or low voltage supplied to motors and compressors may not immediately cause a visible problem, however supplying an incorrect voltage level to a running motor or compressor causes increased internal heating, which shortens motor life. Further variance in line voltage can destroy your motor.

The designers of A-1's EAC-805 have foreseen the needs of today's demanding line voltage monitoring by utilizing modern micro-computer technology. Precision measurement techniques monitor each of the three input phases at all times and calculate voltage levels, voltage tolerance, and contactor condition. If the power supplied to your motor or compressor varies from the parameters preset into the EAC-805's permanent memory, the EAC-805 will immediately command a complete system shut down. Upon detection of correct incoming power, and a