

Installation Instructions

Cycle Protector

KSACY0101AAA

NOTE: Read the entire instruction before starting the installation.

This symbol → indicates a change since last issue.

INTRODUCTION

This instruction covers installation of the cycle protector, KSACY0101AAA, on split-system air conditioners and heat pumps.

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

The following items are included in the kit:

cycle protector	1
Screws	3
Black wire	1
Violet wire (air conditioners)	1
Wire label (air conditioners)	1
Yellow wire (heat pumps)	1
Wire labels (heat pumps)	2

SAFETY CONSIDERATIONS

Installing and servicing air conditioning equipment can be hazardous due to system pressures and electrical components. Only trained personnel should install or service air conditioning equipment.

Untrained personnel can perform basic maintenance functions such as cleaning coils or cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on air conditioning equipment, observe precautions in the literature and on tags and labels attached to the unit.

Follow all safety codes. Wear safety glasses and work gloves.

⚠ WARNING: Before beginning any installation or modification be sure the main electrical disconnect switch is in the **OFF position. TAG DISCONNECT SWITCH WITH A SUITABLE WARNING LABEL.** Electrical shock can cause personal injury or death.

INSTALLATION

PROCEDURE 1—AIR CONDITIONING APPLICATIONS

Proceed as follows to install the cycle protector control and to make the electrical connections.

1. Install cycle protector in control box using screws provided in kit.
2. Locate contactor, determine two contactor coil terminals, and disconnect lead that is Y leg of 24-volt circuit (lead may be routed through high- and/or low-pressure, and/or discharge-temperature switches, if used). Route this lead to cycle protector and connect to terminal T1.
3. Connect violet wire from kit to vacant contactor coil terminal, route wire to cycle protector, and connect to terminal T2.
4. Remove black wire from kit, connect to contactor coil other terminal, route other end to cycle protector, and connect to terminal T3.
5. Attach air conditioner wire label (provided in kit) next to unit wiring label.

PROCEDURE 2—HEAT PUMP APPLICATIONS

Proceed as follows to install the cycle protector and to make the electrical connections.

NOTE: Refer to Fig. 2 (Fig. 3 if Service Alarm is used), the unit wiring label, and the label provided with kit when making electrical connections. Unit may or may not be equipped with protective controls shown on wiring diagrams.

1. Install cycle protector in control box using screws provided in kit.
2. Locate yellow or blue wire leading from 24-volt safety control to contactor coil. Disconnect this lead at contactor coil. Route this lead to cycle protector and connect to terminal T1.
3. Using yellow wire from kit, connect between previously vacated contactor coil terminal and terminal T2.

