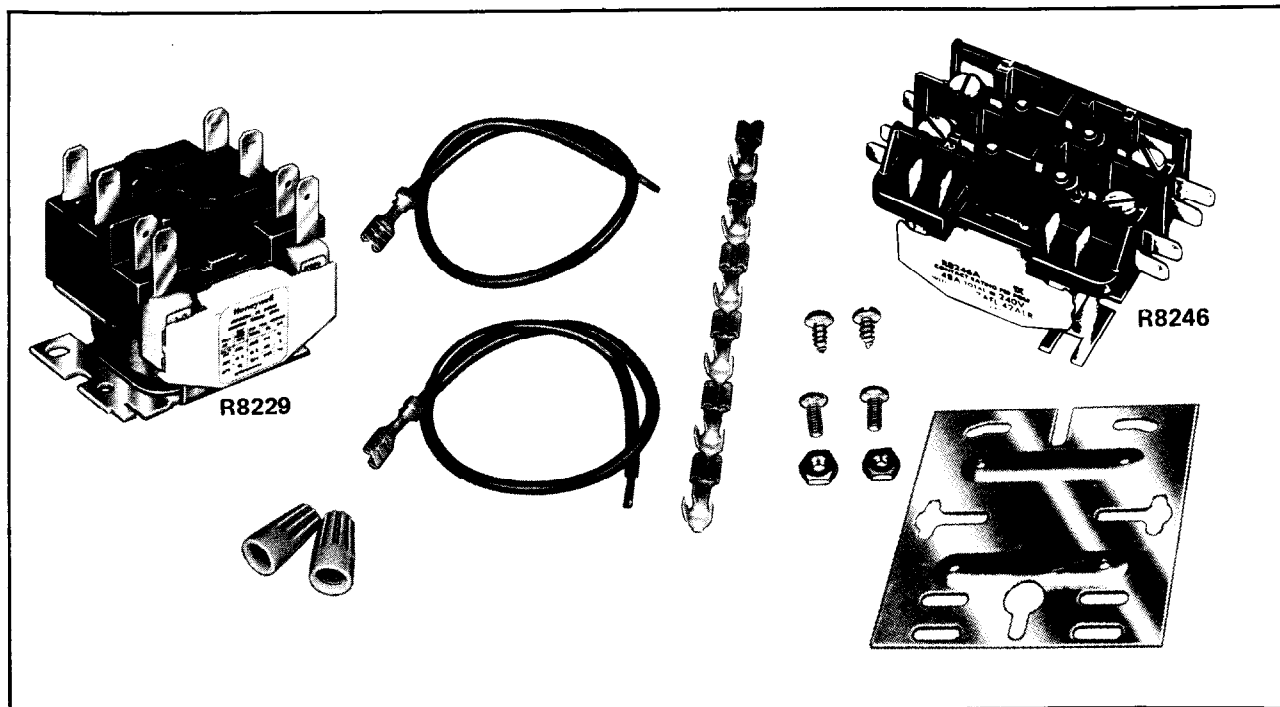


**R8229A ELECTRIC HEAT RELAY
R8246A ELECTRIC HEAT CONTACTOR**

THE R8229A AND R8246A ARE RECONTROL REPLACEMENTS FOR MOST SINGLE OR MULTIPLE ELEMENT ELECTRIC FURNACE SEQUENCERS AND CONTACTORS. COMBINATIONS OF RELAYS AND CONTACTORS CAN BE USED TO CONTROL UP TO 12 HEATING ELEMENTS.

THE RELAY OR CONTACTOR CAN BE USED ON FURNACES USING LINE VOLTAGE OR PILOT DUTY LIMITS IN 240V AC AND 120/240V AC ISOLATED FAN AND 240V AC COMBINATION RATED WIRING SYSTEMS.

- Quick-connect terminals for maximum wiring flexibility.
- Terminal clamp screws also included on R8246A contactor.
- Field proven, reliable operation.

- Quiet—designed for electric heat use.
- Simple ON-OFF switching—readily understood, easily serviced, and eliminates cold startup drafts.
- Thermostat current draw is constant (0.23 amp).
- Single unit control of up to 2 heating elements plus fan with R8229A, or 4 heating elements plus a fan with R8246A; reduces control space and simplifies wiring in furnace.
- Wiring accessories included to make installation quick and efficient.
- Mounts in any position. Mounting adapter plate supplied to simplify competitive device replacement.
- Meets or exceeds all industry standards.

FEATURES

The SUPER TRADELINE electric heat relay switches up to two 5 kW elements plus a fan, and the contactor switches up to four 5 kW heating elements plus a fan. Because the R8229A and R8246A are designed for electric heat, they will replace sequencers, relays, and contactors.

Everything you need is included. This SUPER TRADELINE package includes—

- universal mounting plate (to assure quick, easy replacement).
- two sheetmetal mounting screws.
- two nuts and bolts (for optional mounting).
- two 12 inch [304.8 mm] leadwires with quick-connects.
- two wire nuts.
- six female quick-connect terminals.
- special instructions.
- special cross reference label.

Extra parts that may not be necessary on an installation can still be useful as additions to your regular tool kit.

Replacing existing relays, contactors, and sequencers with the R8229A Electric Heat Relay or R8246A Electric Heat Contactor updates existing appliances to newer industry standards. Cold drafts are reduced because

there is no time delay between heating elements. Recontrol with the R8229A Electric Heat Relay or R8246A Electric Heat Contactor:

- Gives quiet conventional ON and OFF switching. Special design based on a line of Honeywell relays and contactors with years of reliable, trouble-free performance.
- The R8246A switches the maximum allowable NEC and Underwriters Laboratories Inc. circuit subdivision of 48 amperes. You can recontrol existing appliances with fewer controls. Saves you time and the homeowner money.
- Simplifies application, service, and checkout. One of the serviceman's major complaints is that sequencing circuitry is too complex. The R8229A and R8246A can be applied to any electric heat furnace using the basic idea of ON and OFF switching of the elements and fan.
- Provides easy installation. The small size of the R8229A and R8246A makes installation in today's compact wiring compartments easier. The universal mounting adapter plate and wiring accessories help assure that you have everything you need before you start.

APPLICATION

The R8229A relay and R8246A contactor provide recontrol replacements for most single or multiple element electric heat relays, contactors, and sequencers used in electric heating appliances. Each R8229A relay switches a fan and 1 or 2 heating elements. Each R8246A contactor switches a fan and up to 4 heating elements. Two or three relays and contactors can be used together to control from 4 to 12 heating elements. The R8229A and R8246A may be used with either line voltage or pilot duty limit applications.

MAXIMUM AMBIENT TEMPERATURE: 165 F [74 C].
TERMINALS:

R8229A—1/4 inch male quick-connect terminals.

R8246A—No. 10 terminal clamp screws and double male 1/4 inch quick-connects.

NOTE: Female quick-connects should be selected with care. The use of a premium grade quick-connect, such as the AMP Faston "250" series or equivalent is recommended.

DIMENSIONS: See Figs. 1 and 2.

MOUNTING MEANS: Two screws (up to No. 10 size) through holes in base. See Fig. 1.

UNDERWRITERS LABORATORIES INC. COMPONENT RECOGNIZED: File No. E59779, Guide No. NLDX2.

CANADIAN STANDARDS ASSOCIATION COMPONENT RECOGNITION: File No. LR1620.

COIL RATINGS:

Pickup Voltage (maximum) ^{a,b}	18V ac
Pickup Voltage (nominal) ^{a,b}	14V ac
Dropout Voltage (nominal)	6V ac
Maximum Inrush VA at Rated Voltage	6.2 VA
Nominal Inrush VA at Rated Voltage	5.5 VA
Sealed VA (maximum)	6.2 VA
Sealed VA (nominal)	5.5 VA
Sealed Amp (nominal)	.23 amp

^aVoltage listed is for the base mounted vertical.

^bInstantly applied voltage simulating thermostat operation.

CONTROL VOLTAGE: 24V ac, 0.23 amp.

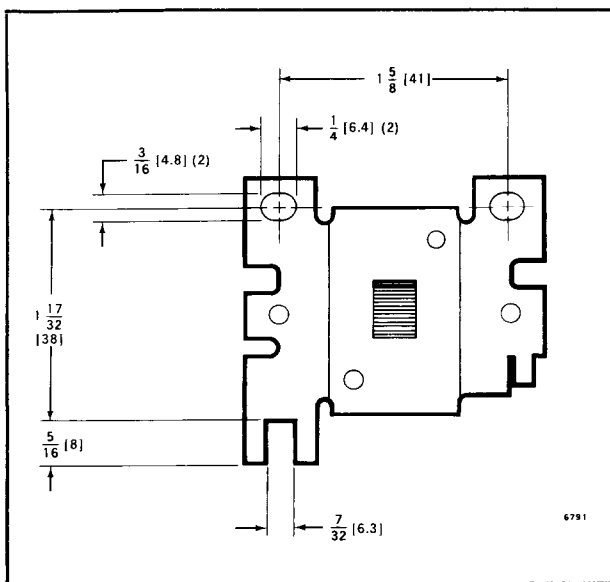


FIG. 1—DIMENSIONS OF RELAY AND CONTACTOR BASE, IN INCHES [MILLIMETRES].

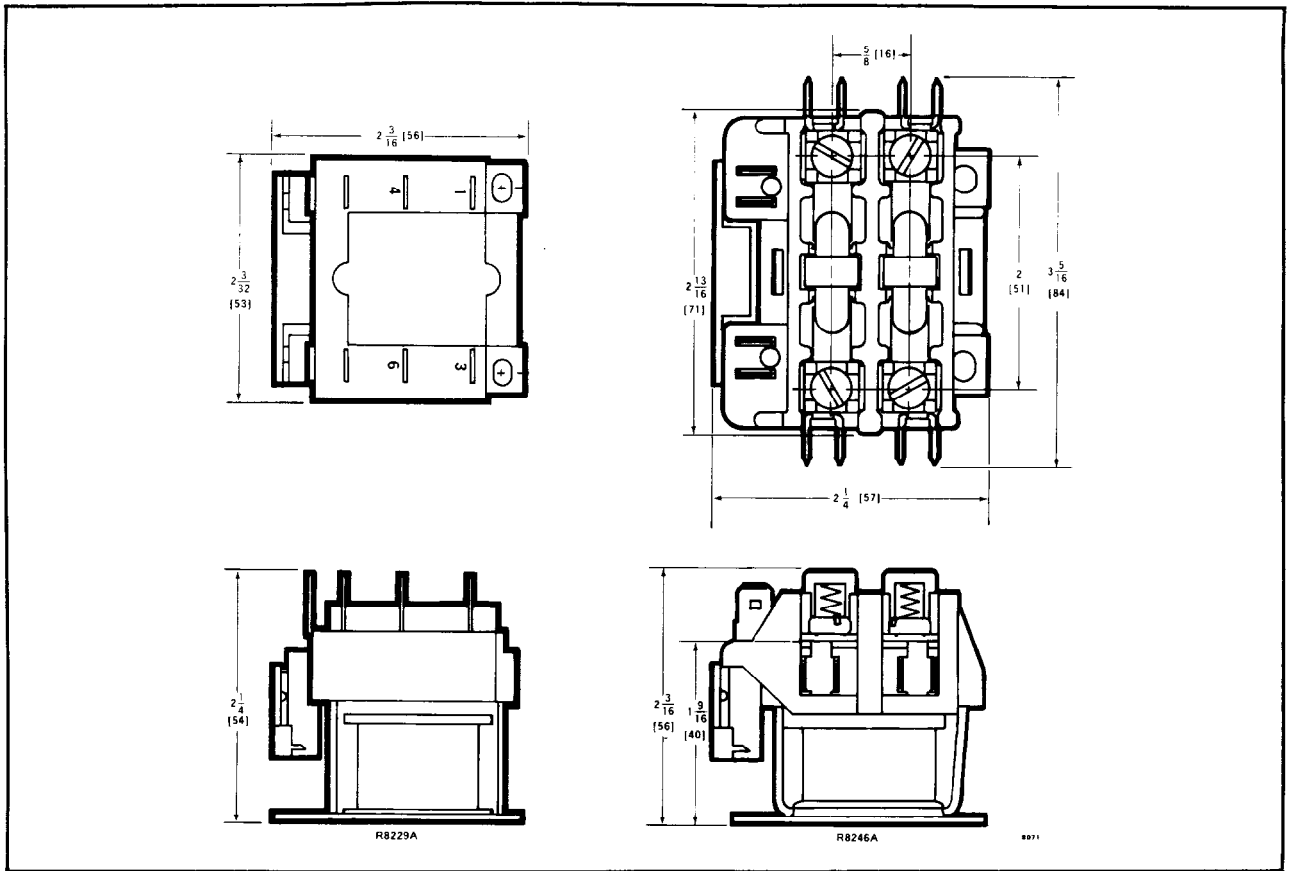


FIG. 2—R8229A ELECTRIC HEAT RELAY AND R8246 ELECTRIC HEAT CONTACTOR DIMENSIONS IN INCHES [MILLIMETRES].

CONTACT RATINGS:

R8229 ratings per pole—

VOLTAGE	FIRST POLE	SECOND POLE ^b				
	RESISTIVE ONLY AMPERES	COMBINED INDUCTIVE ^{a,b} AND RESISTIVE			INDUCTIVE ONLY	
		MAX. LOAD	INDUCTIVE		AFL	ALR
120, 208, 240, 277	25.0	26.0	6.4	18.0	7.0	35.0
480	12.5	13.6	3.2	9.0	3.5	17.5
600	10.0	10.4	2.56	7.2	2.8	14.0

R8246 ratings per pole—

VOLTAGE	FIRST POLE	SECOND POLE ^b				
	RESISTIVE ONLY AMPERES	COMBINED INDUCTIVE ^{a,b} AND RESISTIVE			INDUCTIVE ONLY	
		MAX. LOAD	INDUCTIVE		AFL	ALR
120, 208, 240, 277	48.0	48.0	7.0	42.0	12.0	72.0
480	24.0	24.0	3.5	21.0	6.0	36.0
600	19.2	18.5	2.8	16.8	4.8	28.8

^aEither contact of the R8229 is rated for a 5 kW resistive load in combination with the motor load as shown in the table. Either contact of the R8246 is rated for a 10 kW resistive load in combination with the motor load as shown in the table. The total connected second pole load (inductive and resistive loads combined) cannot exceed the value given in the table for MAX LOAD. FOR EXAMPLE: With a 5 amp motor load, up to 43.0 amp resistive can be controlled by the same pole of a R8246A contactor at 240V ac.

^bA combined resistive and inductive load can be connected to either pole of the relay and contactor. Do not connect an inductive load to both poles.