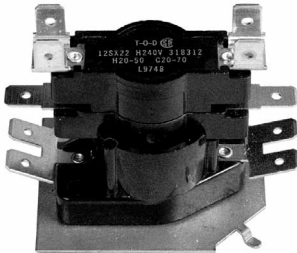


Time Delay Relays

The 12S series is a field proven relay for controlling fans, heating elements and like devices where time delay is required. Several standard on and off time delays are available with a variety of normally open and normally closed contacts.



A common application is to keep a fan running after heaters are shut off to reduce latent heat.

To Order Specify

Quantity and catalog number.

TABLE 2 Time Delay Relay

ON Time (sec)	OFF Time (sec)	Form	Contacts Control Voltage	Rating	Catalog Number
15 - 40	60 - 160	DPST	120V	25A 120-240	B11043-04
15 - 40	30 - 70	DPST	120V	10A 480-600	B11043-03
20 - 50	20 - 70	DPST	240V	10A 480-600	B11043-02
20 - 50	20 - 70	SPST	240V	10A 480-600	B11043-01

Silent Contactors and Thermal Relays

Silent contactors and thermal relays are typically used in comfort heating applications when noise is a factor.

Contactors respond instantly to a control signal. Thermal relays have a 60 second delay when energizing and a 15 second delay when opening. Thermal relays are not suitable for use in limit applications.



Figure 1
Silent Contactor

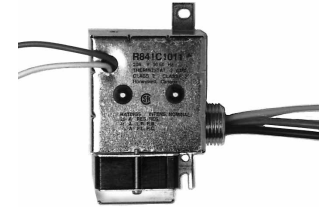


Figure 2
Thermal Relay

TABLE 3 Silent Contactors

Electrical Rating	Figure Number	No. Of Poles	Catalog Number
600V 10 A or 240V 25A	1	Double Pole	R8229A1005B

TABLE 4 Thermal Relays

System Voltage	Max. Load	Fig. No.	Transformer Rating	Catalog Number
240V	25A	2	240V / 24V	R841C1029
600V	10A	2	600V / 24V	R841C1151
600V Max.	As Above	—	Less Transformer	R841D1036

To Order Specify

Quantity and catalog number.

High Temperature Wire

For specific information on allowable current capacity and temperatures for wire refer to your regional Electrical Code. Wire ampacity decreases as the ambient temperature increases.

Other Gauges

Heavier gauges are available. Consult factory.

**TABLE 5 -High Temperature Wire
600V Max. - 3 Wires Max. In Raceway**

Gauge	Maximum Allowable Wire Temp.		Recommended Max. Amps at Ambient of		Catalog Number
	°C	°F	30°C (86°F)	140°C (284°F)	
8	200	392	55	32	SEW-8
10	200	392	45	26	SEW-10
12	200	392	30	17	SEW-12
10	250	482	40	23	TCGT-10
12	250	482	25	14	TCGT-12

To Order Specify

Quantity and catalog number.

Time Delay Relays & High Temperature Wires