

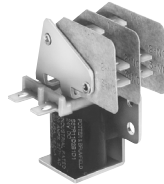
# S86R/S87R series

## Low Cost 20 Amp Industrial Relays

UL File E22575  
CS File LR15734



**S86R  
Mounting  
Style 1**



**S87R  
Mounting  
Style 2**

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

### Features

- Low cost.
- Contact forms to 2 Form C.
- Applications include spa controls, vending machines, HVAC, and machine tool controls.
- Variety of mounting styles.

### Contact Data @ 25°C

**S86R and S87R:** 20 amps @ 277VAC; 60 LRA, 12 FLA, 1 HP @ 125VAC;  
48 LRA, 8 FLA @ 240VAC; 2 HP @ 250VAC; Pilot Duty,  
360VA @ 125/250VAC.

**Materials:** Silver and silver-cadmium oxide.

**Expected Life:** 1 million operations, mechanical; 50,000 operations at rated loads.

### Initial Dielectric Strength

**Initial Breakdown Voltage:** 1,560V rms, 60 Hz.

### Coil Data @ 25°C

#### Nominal Power:

**S86R:** 4.0VA for AC models.

**S87R:** 2.9 Watts for single pole DC models.  
4.5 Watts for double pole DC models.  
4.0VA for AC models.

**Insulation:** Class B (130°C).

### Coil Data

Nominal Coil Voltage	Coil Resistance (Ohms)		Nominal Coil Current (mA) @ 25°C*	
	AC, ± 15%	DC, ± 10%		
<b>S86R &amp; S87R (AC)</b>	All Models		All Models	
12VAC	8.0		330	
24VAC	32		165	
120VAC	800		33.0	
240VAC	3,200		16.5	
<b>S87R (DC)</b>	Single Pole Models	Double Pole Models	Single Pole Models	Double Pole Models
6VDC	12.5	8	480	750
12VDC	50	32	240	375
24VDC	200	128	120	188
36VDC	450	288	80	125
48VDC	800	512	60	94
72VDC	1,800	1,150	40	63
125VDC	5,425	3,470	23	36

\*Increase AC current values by 25% for mounting style 2 with single switch.

### Operate Data

#### Must Operate Voltage:

**DC Coils:** 75% of nominal voltage @ +25°C.

**AC Coils:** 85% of nominal voltage @ +25°C.

**Operating Position:** Relay is designed for operation with plunger either vertical or horizontal; however, the relay is not designed for operation in an upside-down position.

### Environmental Data

**Temperature Range:** -10°C to +65°C.

