

# S86R/S87R series



**S86R**  
Mounting  
Style 1



**S87R**  
Mounting  
Style 2

## Low Cost 20 Amp Industrial Relays

File E22575

File LR15734

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.

### Coil Data

Nominal Coil Voltage	Coil Resistance (Ohms) AC, $\pm 15\%$ DC, $\pm 10\%$	Nominal Coil Current (mA) @ 25°C*		
S86R & S87R (AC)	All Models	All Models		
12VAC	8.0	330		
24VAC	32	165		
120VAC	800	33.0		
240VAC	3,200	16.5		
S87R (DC)	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.

### Initial Dielectric Strength

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

### 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.

### 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).

### Environmental Data

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

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## Ordering Information

**Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.**

S86R5A1B1D1-120  
S86R11A1B1D1120

S86R11D1B1D1-12  
S87R5A2B1D1-120

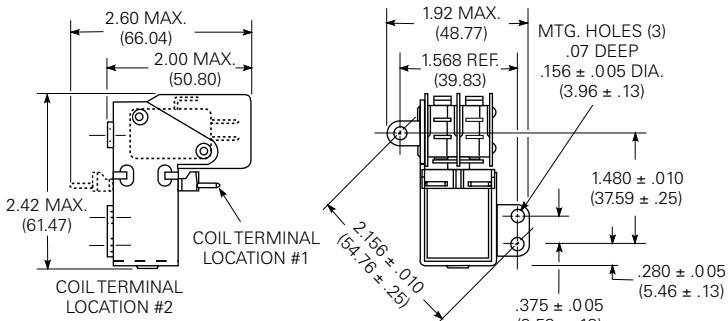
S87R5A2B1D1-240  
S87R5D2B1D1-24

687R11A2B1D1-24  
687R11A2B1D1120

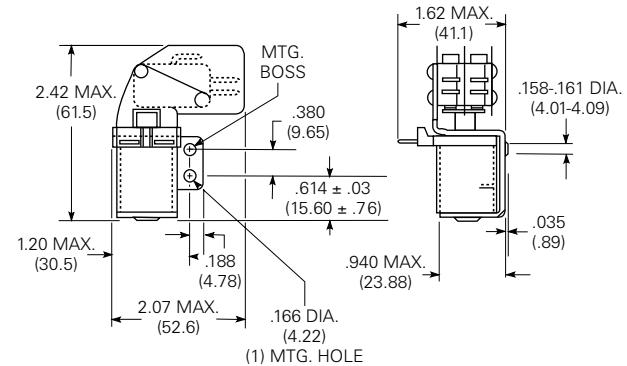
S87R11A2B1D1240  
S87R11D2B1D1-110

## Outline Dimensions

### **S86R (2 pole shown) Style 1**

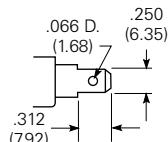


### S87R (2 pole shown) Style 2



## Switch Terminal Style

### **.250" (6.35mm) Quick Connect**



## Switch Terminal Configuration

## Style 1

