

# 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<br>Coil<br>Voltage  | Coil Resistance (Ohms)   |                          | Nominal<br>Coil Current (mA)<br>@ 25°C* |                          |
|-----------------------------|--------------------------|--------------------------|---|--------------------------|
|                             | AC, ± 15%<br>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<br>Pole<br>Models | Double<br>Pole<br>Models | Single<br>Pole<br>Models                | Double<br>Pole<br>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.



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Industrial Relays](#) category:*

*Click to view products by [TE Connectivity](#) manufacturer:*

Other Similar products are found below :

[6-1618400-7](#) [686-117111](#) [686-120111](#) [EV250-4A-02](#) [EV250-6A-01](#) [FCA-125-CX8](#) [FCA-410-138](#) [8-1618393-1](#) [GCA32A208VAC60HZ](#)  
[GCA32A220VAC50/60HZ](#) [GCA32A230VAC50/60HZ](#) [GCA32A240VAC50/60HZ](#) [GCA32A48VAC60HZ](#) [GCA63A120VAC50/60HZ](#)  
[GCA63A208VAC60HZ](#) [GCA63A220VAC60HZ](#) [GCA63A230VAC50/60HZ](#) [GCA63A240VAC50/60HZ](#) [GCA63A277VAC60HZ](#)  
[GCA63A48VAC60HZ](#) [GCA63A500VAC50/60HZ](#) [GCA63A600VAC60HZ](#) [GCA800A200VACDC](#) [GCA95A110VAC50/60HZ](#)  
[GCA95A120VAC50/60HZ](#) [GCA95A12VDC](#) [GCA95A240VAC50/60HZ](#) [GCA95A24VAC50/60HZ](#) [GCA95A48VAC60HZ](#) [ACC530U20](#)  
[ACC730U30](#) [1395832-1](#) [RM699BV-3011-85-1005](#) [RMIA210230AC](#) [RMIA45024AC](#) [1423675-8](#) [B07B032AC1-0329](#) [B329](#) [1617807-1](#)  
[N417](#) [P25-E5019-1](#) [P30C42A12D1-120](#) [2-1618398-1](#) [PBO-18A1218](#) [2307497](#) [RPYA00324LT](#) [RPYA003A120LT](#) [KR-4539-1](#)  
[RT334012WG](#) [S160156115](#)