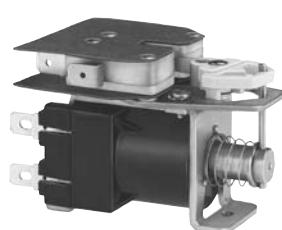


S89R



S90R

## S89R/S90R series

### Bistable, Impulse Relay 15 and 20 Amp Industrial Rating Continuous Coil Rating

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, bistable impulse relay.
- Operates on 75ms min. pulse.
- Used in garage door controls, motor reversing and lighting controls.
- S89R available with plastic cover and octal plug-in base.

#### Contact Data @ 25°C

**Ratings: S89R:** 15 amps, 1/2 HP, 125/250VAC; 5 amps, 125VAC, tungsten filament lamp load; 1/2 amp, 125VDC; 1/4 amp, 250VDC.

**Expected Life:** 100,000 operations, mechanical; 50,000 operations at rated loads.

**Ratings: S90R:**

Load	Minimum Life
20A, 120VAC or 7.5A, 277VAC, Tungsten.	10,000 Cycles
15A, 125VAC or 7A, 277VAC, Fluorescent.	10,000 Cycles
20A, 277VAC, 75-80% PF.	50,000 Cycles
1 HP, 125VAC, 50/60 Hz.	50,000 Cycles
2 HP, 250VAC, 50/60 Hz.	50,000 Cycles
12 FLA, 60 LRA, 120VAC.	50,000 Cycles
8 FLA, 48 LRA, 240VAC.	50,000 Cycles
Pilot Duty, 360VA, 125/250VAC.	50,000 Cycles

#### Coil Data @ 25°C

##### Nominal Power:

**DC Coils:** 6.33 Watts @ +25°C.

**AC Coils:** 9VA @ +25°C.

#### Ordering Information

Typical Part No. ►

**S89R**

**5**

**A**

**B**

**D**

**1**

**-24**

##### 1. Basic Series:

S89R = 15A  
S90R = 20A

##### 2. Contact Arrangement:

5 = SPDT 11 = DPDT

##### 3. Coil Input:

A = AC  
D = DC

##### 4. Coil Terminal Style:

A = .187" (4.75mm) Quick connect/solder.  
B = .250" (6.35mm) Quick connect/solder.

P = Dust cover with octal plug-in base. (S89R only.)

##### 5. Switch Terminal Style:

C = .187" (4.75mm) Quick connect.\*  
D = .250" (6.35mm) Quick connect. (S90 only)

P = Dust cover with octal plug-in base.\*  
\* S89R only.

##### 6. Switch Terminal Configuration:

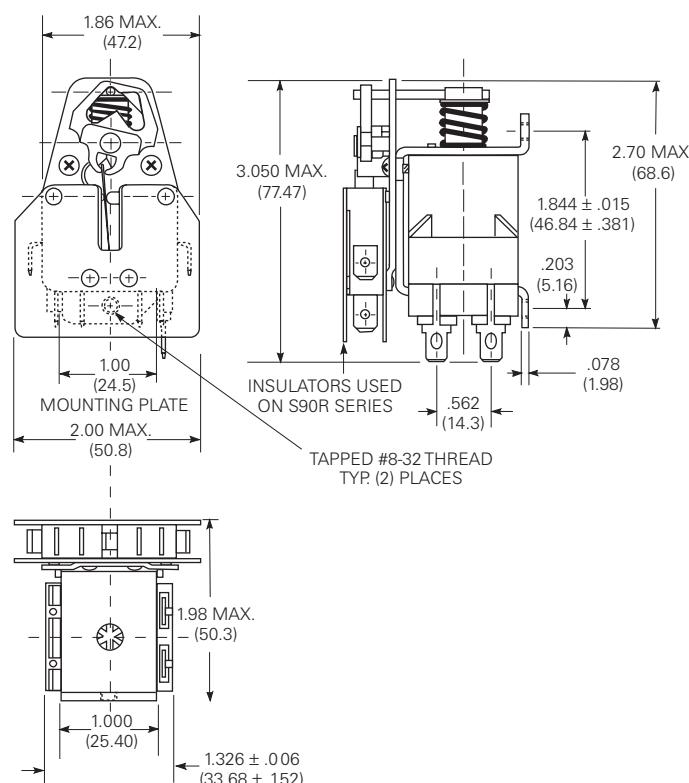
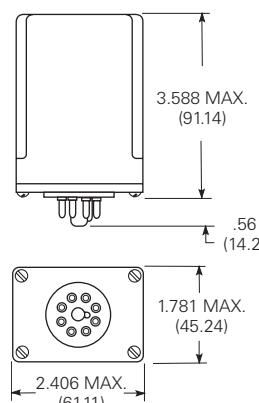
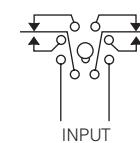
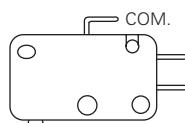
1 = Style 1 (See outline drawings.)

##### 7. Coil Voltage:

24, 120, 240VAC  
6, 12, 24VDC

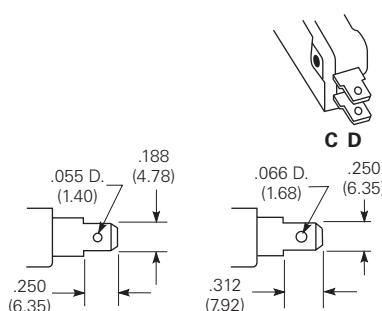
#### Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

S89R5ABD1-24	S89R11AAC1-24	S89R11ABD1-120	S89R11DACP1-24	S90R5ABD1-120
S89R5ABD1-120	S89R11AAC1-120	S89R11APP1-120	S89R11DBD1-12	S90R11ABD1-24
S89R5DBD1-12	S89R11ABD1-24	S89R11DACP1-12	S89R11DBD1-24	S90R11ABD1-120

**Outline Dimensions****Open Relays****Enclosed Relays  
S89 Series****Wiring Diagram****Switch Terminal Configuration****Style 1****Switch Terminal Style**

C = .187" (4.75mm) Quick-connect  
 D = .250" (6.35mm) Quick-connect

**.187" (4.75mm)  
Quick Connect**      **.250" (6.35mm)  
Quick Connect**  
**S89R**                      **S90R**



# Mouser Electronics

Authorized Distributor

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[S89R11APP1-120](#) [S89R-1012](#)