





**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.

Insulation: Class B (130°C).

Initial Breakdown Voltage: 1,500V rms, 60 Hz.

Must-Operate Voltage:

DC Coils: 75% of nominal voltage @ +25°C AC Coils: 85% of nominal voltage @ +25°C.

#### Contact Data @ 25°C

• Low cost, bistable impulse relay.

• Operates on 75ms min. pulse.

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

• Used in garage door controls, motor reversing and lighting controls.

• S89R available with plastic cover and octal plug-in base.

rated loads.

Ratings: S90R:

**Features** 

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**

Nominal Voltage	Resistance DC Ohms ±15% @ +25°C	Nominal Current mA
24VAC	8.7	375
120VAC	260	75
240VAC	1084	38
6VDC	5.8	1035
12VDC	22.5	533
24VDC	92	260

#### **Environmental Data**

Temperature Range: -10°C to +60°C.

#### **Mechanical Data**

Weight: 7.75 oz. (241g) approximately.

# Coil Data @ 25°C

#### **Nominal Power:**

DC Coils: 6.33 Watts @ +25°C. AC Coils: 9VA @ +25°C.

#### **Ordering Information**

**S89R** 5 В D -24 Typical Part No. 1. Basic Series: S89R = 15AS90R = 20A2. Contact Arrangement: 11 = DPDT5 = SPDT3. Coil Input: A = ACD = DC4. Coil Terminal Style: A = .187" (4.75mm) Quick connect/solder. P = Dust cover with octal plug-in base. (S89R only.) B = .250" (6.35mm) Quick connect/solder. 5. Switch Terminal Style: .187" (4.75mm) Quick connect.\* P = Dust cover with octal plug-in base.\* D = .250" (6.35mm) Quick connect. (S90 only) \* S89R only. 6. Switch Terminal Configuration: 1 = Style 1 (See outline drawings.) 7. Coil Voltage: 24, 120, 240VAC

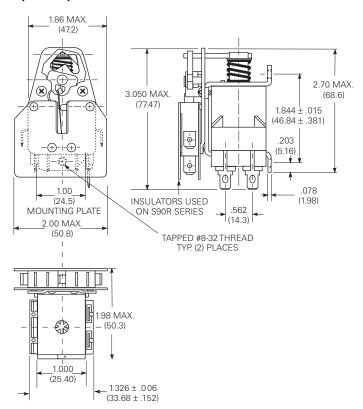
#### Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

S89R11DAC1-24 S89R5ABD1-24 S89R11AAC1-24 S89R11ABD1-120 S90R5ARD1-120 S89R5ABD1-120 S89R11APP1-120 S89R11DBD1-12 S90R11ABD1-24 S89R11AAC1-120 S90R11ABD1-120 S89R5DBD1-12 S89R11DAC1-12 S89R11DBD1-24 S89R11ABD1-24

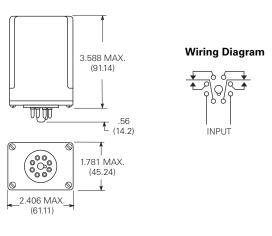
6, 12, 24VDC

#### **Outline Dimensions**

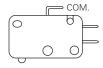
#### **Open Relays**



#### Enclosed Relays S89 Series



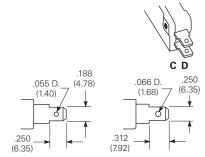
### Switch Terminal Configuration Style 1



### **Switch Terminal Style**

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

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



# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: S89R5AAC1-24