

S89R

**S90R** 

#### 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.

# 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.

#### 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.

Ordering Information	
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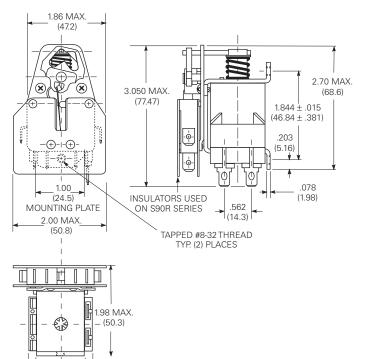
			Typical Part No.	► \$89R	5	Α	В	D	1	-2
<b>1. Basic Series:</b> S89R = 15A S90R = 20A										
2. Contact Arrange					-					
5 = SPDT	11 = DPDT									
<b>3. Coil Input:</b> A = AC										
D = DC										
4. Coil Terminal Sty	/le:									
	n) Quick connect/sold		with octal plug-in bas	e. (S89R only.)						
B = .250" (6.35mr	n) Quick connect/sold	er.								
5. Switch Terminal								-		
	n) Quick connect.*		with octal plug-in bas	e.*						
D = .250" (6.35mr	m) Quick connect. (S9	0 only) * S89R only.								
6. Switch Terminal										
1 = Style 1 (See o	outline drawings.)									
7. Coil Voltage:										
24, 120, 240VAC										
6, 12, 24VDC										
Our authorized c	listributors are m	ore likely to maintai	n the following it	ems in stock foi	<sup>,</sup> imme	diate	deliv	ery.		
S89R5ABD1-24	S89R11AAC1-24	S89R11ABD1-120	S89R11DAC1-24	S90R5ABD1-12						
S89R5ABD1-120	S89R11AAC1-120	S89R11APP1-120	S89R11DBD1-12	S90R11ABD1-2						
S89R5DBD1-12	S89R11ABD1-24	S89R11DAC1-12	S89R11DBD1-24	S90R11ABD1-1	20					
Dimensions are shown for		Dimensions are in inches over	Specifications and availability						/w.tycoel	
reference purposes only.		(millimeters) unless otherwise	subject to change.			Technical support:				

(millimeters) unless otherwise

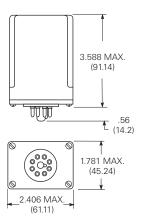
specified.

## **Outline Dimensions**

## **Open Relays**







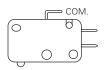
Wiring Diagram



## Switch Terminal Configuration Style 1

 $1.326 \pm .006$ 

(33.68 ± .152)



\_\_1.000\_ (25.40)

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## **Switch Terminal Style**

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



.250" (6.35mm) Quick Connect S90R

CD

.250

(6.35)

A

