

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. Pilot Duty, 360VA, 125/250VAC.	50,000 Cycles 50,000 Cycles 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

A 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 I	nformation
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			Typical Part No.	►	S89R	5	Α	В	D	1	-24
1. Basic Series: S89R = 15A S90R = 20A					J						
2. Contact Arrange 5 = SPDT	ment: 11 = DPDT										
3. Coil Input: A = AC D = DC											
	yle: n) Quick connect/sold m) Quick connect/sold		with octal plug-in base	e. (S89	IR only.)						
	Style: n) Quick connect.* m) Quick connect. (S9		with octal plug-in base	€.*							
6. Switch Terminal 1 = Style 1 (See c											
7. Coil Voltage: 24, 120, 240VAC 6, 12, 24VDC											
) Dur authorized (distributors are n	ore likely to maintai	n the following its	ame i	n stock for	imme	diate	deliv	arv		
89R5ABD1-24 89R5ABD1-120 89R5DBD1-12	S89R11AAC1-24 S89R11AAC1-120 S89R11ABD1-24	S89R11ABD1-120 S89R11APP1-120 S89R11DAC1-12	S89R11DAC1-24 S89R11DBD1-12 S89R11DBD1-24	S	90R5ABD1-12 90R11ABD1-2 90R11ABD1-1	0 4	and		y.		
limensions are shown for		Dimensions are in inches over	Specifications and availability			ww	w.tycoel	ectronics.cor			

Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

Outline Dimensions

Open Relays



Enclosed Relays S89 Series



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

