

S86R Mounting Style 1



S87R Mounting Style 2

S86R/S87R series

Low Cost 20 Amp Industrial Relays

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.

Coil Data

Nominal	Coil Resistan	15%	Nominal				
Coil	AC, ±		Coil Current (mA)				
Voltage	DC, ±		@ 25°C*				
S86R & S87R (AC)	All Mo	dels	All Mo	odels			
12VAC	8	0	330				
24VAC	32		165				
120VAC	800		33.0				
240VAC	3,200		16.5				
S87R (DC)	Single	Double	Single	Double			
	Pole	Pole	Pole	Pole			
	Models	Models	Models	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.

Contact Data @ 25°C

• Contact forms to 2 Form C.

machine tool controls.Variety of mounting styles.

S86R and S87R: 20 amps @ 277VAC; 60 LRA, 12 FLA, 1 HP @ 125VAC; 48 LRA, 8 FLA @ 240VAC; 2 HP @ 250VAC; Pilot

• Applications include spa controls, vending machines, HVAC, and

Duty,

Features

Low cost.

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.

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.

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).

Environmental Data Temperature Range: -10°C to +65°C.

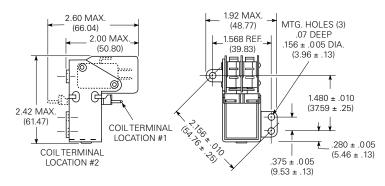
tyco Electronics

Ordering Information										
	Typical Part No. 🕨	S86R	5	Α	1	В	1	D	1	-120
1. Basic Series: S86R = Standard relay with AC coil, 20 Amp co S87R = Standard relay with AC or DC coil, 20 A		1								
2. Contact Arrangement:5 = SPDT7 = DPST-NO11 = D	PDT									
3. Coil Input: A = AC (available on S86R and S87R) D = DC (available on S87R only)										
4. Mounting Style: S86: S87: 1 = Style 1 2 = Style 2	(See outline dimension	s)								
5. Coil Terminal Style: B = .250" (6.35mm) Quick-connect/solder.										
6. Coil Terminal Location (S86): 1 = Same side as switch terminals.	Coil Terminal Location (S 1 = Located perpendicular		ninals.							
7. Switch Terminal Style: D = .250" (6.35mm) Quick-connect/solder.										
8. Switch Terminal Configuration: 1 = Style 1										
9. Coil Voltage: AC coils to 240VAC, 50/60 Hz. DC coils to 125VDC.										

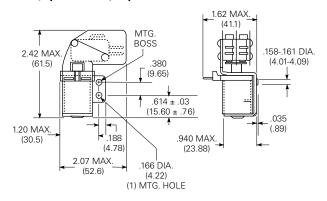
Our authorized distri	butors are more likely t	to maintain the follov	ving items in stock for	r immediate delivery.
S86R5A1B1D1-120	S86R11D1B1D1-12	S87R5A2B1D1-240	S87R11A2B1D1-24	S87R11A2B1D1240
S86R11A1B1D1120	S87R5A2B1D1-120	S87R5D2B1D1-24	S87R11A2B1D1120	S87R11D2B1D1-110

Outline Dimensions

S86R (2 pole shown) Style 1



S87R (2 pole shown) Style 2



Switch Terminal Style

.250" (6.35mm) Quick Connect



Switch Terminal Configuration

