

ELECTRONICS

Catalog 1300272

ISSUED 3-03

ssued 3-03 **P&B**







S87R Mounting Style 2

S86R/S87R series

Low Cost 20 Amp Industrial Relays

File E22575 **File** ER15734

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.
- Contact forms to 2 Form C.
- Applications include spa controls, vending machines, HVAC, and machine tool controls.
- Variety of mounting styles.

Contact Data @ 25°C

S86R and S87R: 20 amps @ 277VAC; 60 LRA, 12 FLA, 1 HP @

125VAC;

48 LRA, 8 FLA @ 240VAC; 2 HP @ 250VAC; Pilot

Duty,

360VA @ 125/250VAC.

Materials: Silver and silver-cadmium oxide.

Expected Life: 1 million operations, mechanical; 50,000 operations at

rated loads.

Coil Data

Nominal	Coil Resistance (Ohms)		Nominal	
Coil	AC, ± 15%		Coil Current (mA)	
Voltage	DC, ± 10%		@ 25°C*	
S86R & S87R (AC)	All Models		All Models	
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.

Initial Dielectric Strength

Initial Breakdown Voltage: 1,560V rms, 60 Hz.

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).

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.

Environmental Data

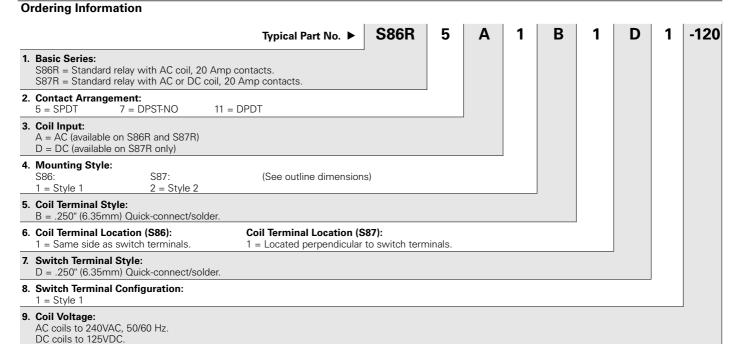
Temperature Range: -10°C to +65°C.







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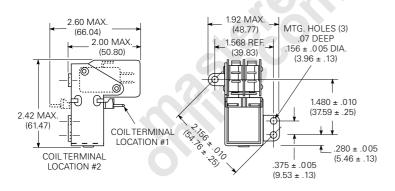


Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

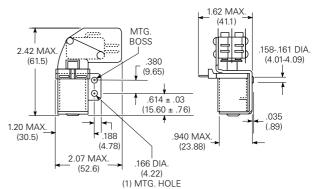
S86R5A1B1D1-120 S86R11A1B1D1120 S86R11D1B1D1-12 S87R5A2B1D1-120 S87R5A2B1D1-240 S87R5D2B1D1-24 \$87R11A2B1D1-24 \$87R11A2B1D1120 S87R11A2B1D1240 S87R11D2B1D1-110

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

