## **Description**

# **Legacy Power Relays**

92

DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)











### **Description**

The 92 series power relays offer a small package size and features Class F insulation for a maximum coil temperature of 155 °C (311 °F). These power relays meet UL508 spacing and are directly DIN or panel mountable.

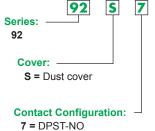
Feature	Benefit
Standard Class F insulation	Allows for maximum coil temperature of 155 °C (311 °F) which is ideal for elevated temperature applications
DIN and panel mount cover	Mounts directly onto DIN rail or panel and provides flexibility to accommodate last minute design changes
Sealed construction, vented	To resist dust and debris in harsh environments

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Standard Part Number
30 A	DPST-NO	24 Vac	170 <sup>1</sup>	92S7A22D-24
		120 Vac	4250 <sup>1</sup>	92S7A22D-120
		240 Vac	16500¹	92S7A22D-240
		12 Vdc	86	92S7D22D-12
		24 Vdc	350	92S7D22D-24
30 A (NO) / 3 A (NC)	DPDT	24 Vac	170¹	92S11A22D-24
		120 Vac	4250 <sup>1</sup>	92S11A22D-120
		240 Vac	16500¹	92S11A22D-240
		12 Vdc	86	92S11D22D-12
		24 Vdc	350	92S11D22D-24

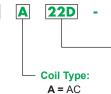
<sup>&</sup>lt;sup>1</sup> All AC coils are rectified.

**11 =** DPDT









D = DC



### **Mounting Style:**

22D = DIN rail and panel mount cover

#### **Coil Voltage:**

12 = 12 V 120 = 120 V **24 =** 24 V **240 =** 240 V

Note: Available coil voltages include 12 Vdc, 24 Vac, 24 Vdc, 120 Vac,

and 240 Vac.



# **Legacy Power Relays**

92 DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)

### **Specifications**

Part Number	9287	92S11		
Contact Characteristics				
Contact Configuration	DPST-NO	DPDT		
Contact Material	Silver alloy			
Thermal (Carrying) Current	*	30 A (NO): 3 A (NC)		
Maximum Switching Voltage (Conforming to IEC)				
Maximum Switching Voltage (Conforming to UL)	300 Vac / 28 Vdc			
Current Ratings at Voltage (Conforming to IEC)	(NO) 30 A at 250 Vac; 25 A at 28 Vdc, 100,000 cycles	(NO) 30 A at 250 Vac; 25 A at 28 Vdc, 100,000 cycles (NC) 3 A at 250 Vac; 3 A at 28 Vdc, 100,000 cycles		
Current Ratings at Voltage (Conforming to UL)	(NO) General Use: 30 A at 277 Vac, 100,000 cycles Resistive: 20 A at 28 Vdc, 100,000 cycles Motor: 1.0 hp at 120 Vac; 3.0 hp at 240 Vac, 100,000 cycles LRA/FLA: 96 A / 22 A @ 240 Vac (AC coil), 30,000 cycles; 110 A / 25.3 A @ 240 Vac (DC coil), 30,000 cycles Pilot Duty: 720 VA / A300, 6,000 cycles Short Circuit: 5000 A(rms) @ 240 Vac Tungsten: 10 A at 120 Vac 50/60 Hz, 25,000 cycles 6 A at 250 Vac 50/60 Hz, 25,000 cycles	(NO) General Use: 30 A at 277 Vac, 100,000 cycles Resistive: 20 A at 28 Vdc, 100,000 cycles Motor: 1.0 hp at 120 Vac; 3.0 hp at 240 Vac, 100,000 cycles LRA/FLA: 96 A / 22 A @ 240 Vac (AC coil), 30,000 cycles; 110 A / 25.3 A @ 240 Vac (DC coil), 30,000 cycles Pilot Duty: 720 VA / A300, 6,000 cycles Short Circuit: 5000 A(rms) @ 240 Vac Tungsten: 10 A at 120 Vac 50/60 Hz, 25,000 cycles; 6 A at 250 Vac 50/60 Hz, 25,000 cycles (NC) Resistive: 3 A at 277 Vac 6,000 cycles; 3 A at 28 Vdc 100,000 cycles		
Switching Capacity	Maximum: 7500 VA / 840 W (when mounted with 13 mm gap between 2 relays); 6250 VA / 700 W (when mounted side by side without a gap) Minimum: 170 mW			
Minimum Switching Requirements	10 mA at 17 V			
Coil Characteristics				
Coil Voltage Range <sup>1</sup>	12–240 Vac² 50/60 Hz; 12–24 Vdc			
Operating Range (% of Nominal)	80%–110%			
Average Consumption	4 VA -20% / +10% (AC); 1.7 W -20% / +10% (DC)			
Drop-out Voltage Threshold				
General Characteristics				
Electrical Life at Rated Load	Resistive load: 100,000 cycles, unless otherwise specified under "Current Ratings at Voltage" Inductive load: See load curves on page 25.			
Mechanical Life at No Load (Unpowered)	5,000,000 operations			
Operating Time (Response Time) at Nominal Coil Voltage	25 ms maximum			
Rated Impulse Withstand	4000 V (1.2 μs / 50 μs)			
Dielectric Strength	Between coil and contact: 4000 Vac Between poles: 2000 Vac Between contacts: 1500 Vac			
Operating Temperature Range	-40 to +55 °C ( -40 to +131 °F)			
Storage Temperature Range	-40 to +85 °C (-40 to +185 °F)			
Vibration Resistance	± 1 mm (10–35 Hz) and 3 g-n (35–150 Hz)			
Shock Resistance	10 g-n (in operation) / 30 g-n (not in operation)			
Weight (Average)	0.082 kg (0.181 oz)			
Conformity to Standards	IEC/EN 61810-1, UL 508, CSA C22-2 n°14			
Agency Certifications	ULL 1:-t1 (E404000) OOA (00E040) OE (=== IEO 00047.4) D-110	UL Listed (E164862), CSA (225619), CE (per IEC 60947-1), RoHS		

Note: Actual product performance may vary depending on application and environmental conditions.

<sup>1</sup> For available standard coil voltages, refer to the standard part number table on page 23.

<sup>2</sup> All AC coils are rectified.



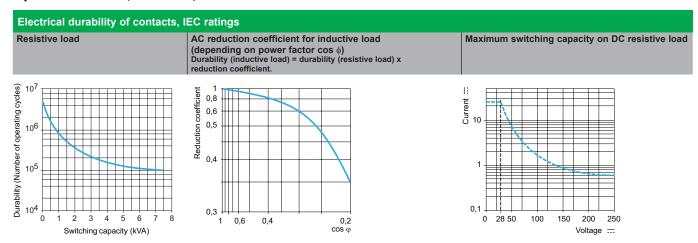
### Specifications (continued), Dimensions, Wiring Diagrams

## **Legacy Power Relays**

92

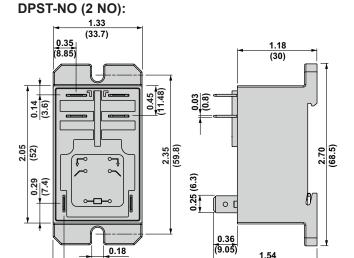
DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)

#### **Specifications** (continued)

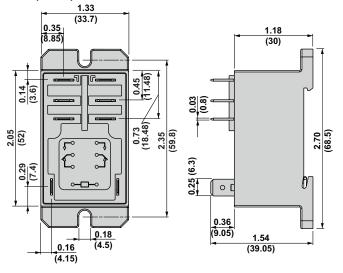


Note: These curves are for reference only and are typical values only. Actual performance depends on the actual load, environment, duty cycle, and other conditions specific to the application.

### Dimensions — inches (millimeters)



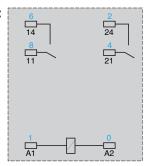
#### DPDT (2 CO):



### Wiring Diagrams

(4.5)

DPST-NO (2 NO):



(39.05)

DPDT (2 CO):

