



## UL CONTACT LOAD RATINGS TABLE FOR 9A

LOAD	LOAD VOLTAGE	SPST	SPDT	
		N.O. LOAD	N.O. LOAD	N.C. LOAD
GENERAL PURPOSE	240 VAC	30 AMP	20 AMP	10 AMP
RESISTIVE	28 VDC	30 AMP	30 AMP	10 AMP
MOTOR	125 VAC	1 HP	1 HP	1/4 HP
	240 VAC	2 HP	2 HP	1/2 HP
FLA/LRA ‡	120 VAC	22/98 AMP	22/98 AMP	-
	240 VAC	30/80 AMP	30/80 AMP	12/30 AMP
TUNGSTEN	240 VAC	5 AMP	5 AMP	-
BALLAST	277 VAC	10 AMP	10 AMP	3 AMP
PILOT DUTY	240 VAC	470 VA	470 VA	275 VA

‡ FLA = Full load amps,  
LRA = Locked rotor amps.

## UL CONTACT LOAD RATINGS TABLE FOR 92

RATING	LOAD VOLTAGE	DPST-N.O. & DPDT	DPDT
		N.O. LOAD	N.C. LOAD
RESISTIVE LOAD	120/277 VAC	30 AMP	3 AMP
	28 VDC	20 AMP	3 AMP
MOTOR	120 VAC	1 HP	-
	240 VAC	3 HP	-
TUNGSTEN	120 VAC	10 AMP	-
LRA/FLA‡	240 VAC	96/22	-
		110/25.3	-
PILOT DUTY	240 VAC	3 AMP	-



**CLASS "F" INSULATION 155 °C. FLANGE MOUNTED.**  
**EPOXY SEALED WITH REMOVABLE TAPE SEAL OVER VENT HOLE (REMOVED AFTER CLEANING)**

## GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
<b>COIL</b>		
Pull-in Voltage AC (50/60 Hz):≤	% of nominal	80
Pull-in Voltage DC:≤	% of nominal	75
Dropout Voltage AC (50/60 Hz):≥	% of nominal	10
Dropout Voltage DC:≥	% of nominal	10
Maximum Voltage:	% of nominal	120
Resistance:	% ±	10
Coil Power AC (60 Hz):	VA	9A: 2.8, 92: 4
Coil Power DC:	W	9A: 1, 92: 1.7
Insulation System Per UL Standard 1446:		Class F (155 °C)
Duty:		Continuous
<b>CONTACTS</b>		
Contact Configuration:		9A: SPST-NO & SPDT 92: DPST-NC & DPDT
Contact Material:		Silver alloy
Contact Rating AC Amperes (AC1):	A	30
Contact Rating AC Voltage:	V	9A: 240, 92: 277
Contact Rating DC Amperes (DC1):	A	9A: 30, 92: 20
Contact Rating DC Voltage:	V	28
Horse Power (AC):	HP	9A: 1 @ 120, 2 @ 240 VAC
Horse Power (AC):	HP	92: 1 @ 120, 3 @ 240 VAC
Pilot Duty (60 Hz):	VA	9A: 470, 92: 720
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W
<b>TIMING</b>		
Operate Time:	ms	20
Release Time:	ms	20



	UNITS	
<b>DIELECTRIC STRENGTH</b>		
Coil to Contacts:	V rms	2500
Across Open Contacts:	V rms	1500
Pole to Pole:	V rms	9A: Not applicable 92: 2500
Contacts to Frame:	V rms	Not Applicable
Insulation Resistance:	megohms minimum @VDC	1000 @ 500
<b>VIBRATION RESISTANCE</b>		
Functional:	g's	10
<b>SHOCK RESISTANCE</b>		
Functional:	g's	20
<b>TEMPERATURE</b>		
Operating, AC Lower:	°C	-55
Operating, AC Upper:	°C	+85
Operating, DC Lower:	°C	-55
Operating, DC Upper:	°C	+85
Storage, Lower:	°C	-55
Storage, Upper:	°C	+105
<b>LIFE EXPECTANCY</b>		
Electrical @ Rated Load (AC1):	operations	100,000
Mechanical @ no Load :	operations	9A: 10,000,000 92: 5,000,000
<b>MISCELLANEOUS</b>		
Operating Position:		Any
Insulation Material:	94V-0	Molded plastic
Enclosure Material:	94V-0	Polycarbonate
Cover Protection Category:	IP	40
Terminals:	Inch (mm)	92: 0.250 x 0.032 (6.35 x 0.81 )
Weight:	grams	9A: 33, 92: 86

# 9A FLANGE MOUNT MINIATURE RELAY

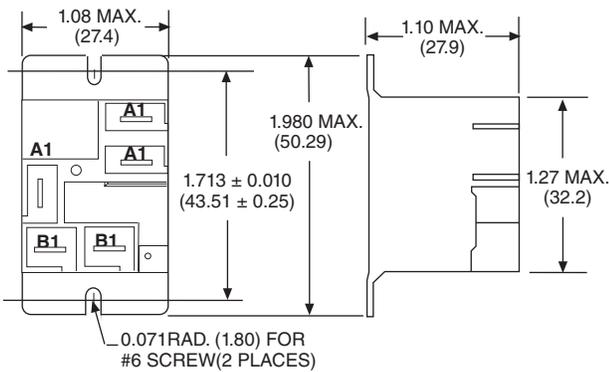


## SPST-N.O. & SPDT, 30 AMPS

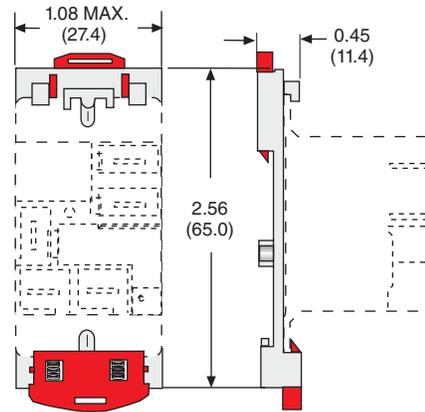
WIRING DIAGRAM  
(VIEWED FROM PIN END)

### OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



### WITH OPTIONAL DIN ADAPTER



A1 = 0.250 X 0.032 (6.35 X 0.81)  
Quick Connect Terminal

B1 = 0.187 x 0.020 (4.78 x 0.508)  
Quick Connect Terminal

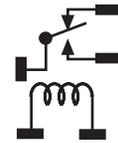


FIG. A

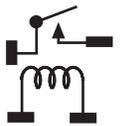


FIG. D

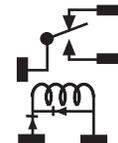


FIG. B

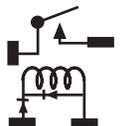


FIG. E



FIG. C

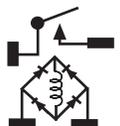


FIG. F



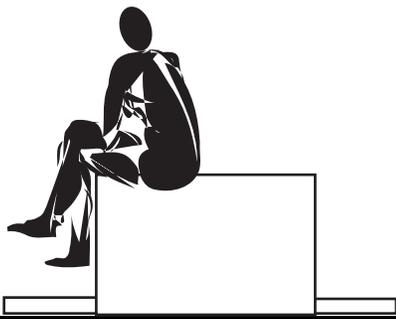
STANDARD  
FLANGE COVER



OPTIONAL DIN  
ADAPTER  
16-9A DIN-1

ORDERED AND SHIPPED  
SEPARATELY

MEETS UL 873 AND UL 508  
SPACING - (8MM) THRU AIR,  
(9.5 MM) OVER SURFACE



STANDARD PART NUMBERS	CONTACT CONFIGURATION	FIG.	COIL MEASURED @ 25 °C	
			NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
<b>FLANGE MOUNT, 30 AMP</b>				
W9AS1D52-5	SPST-NO	A	5 VDC	25 Ω
W9AS1D52-12	SPST-NO	A	12 VDC	144 Ω
W9AS1D52-24	SPST-NO	A	24 VDC	576 Ω
W9AS1D52-110	SPST-NO	A	110/125 VDC	12100 Ω
<b>FLANGE MOUNT, 20 AMP</b>				
W9AS5D52-5	SPDT	D	5 VDC	25 Ω
W9AS5D52-12	SPDT	D	12 VDC	144 Ω
W9AS5D52-24	SPDT	D	24 VDC	576 Ω
W9AS5D52-110	SPDT	D	110/125 VDC	12100 Ω
<b>FLANGE MOUNT, 30 AMP</b>				
W9AS1A52-24	SPST-NO	F	24 VAC, 50/60 Hz	500 Ω
W9AS1A52-120	SPST-NO	E	120 VAC, 50/60 Hz	3,000 Ω
W9AS1A52-240	SPST-NO	E	240 VAC, 50/60 Hz	12,100 Ω
<b>FLANGE MOUNT, 20 AMP</b>				
W9AS5A52-24	SPDT	C	24 VAC, 50/60 Hz	500 Ω
W9AS5A52-120	SPDT	B	120 VAC, 50/60 Hz	3,000 Ω
W9AS5A52-240	SPDT	B	240 VAC, 50/60 Hz	12,100 Ω