

49 PCB Enclosed Relay

GENERAL SPECIFICATIONS



UL508
File No. E258297



- Small size
- Rated up to 10A
- TV3 rating
- 1/3 HP rating @ 120VAC for inductive switching
- Variety of footprint configurations for wide selection of applications



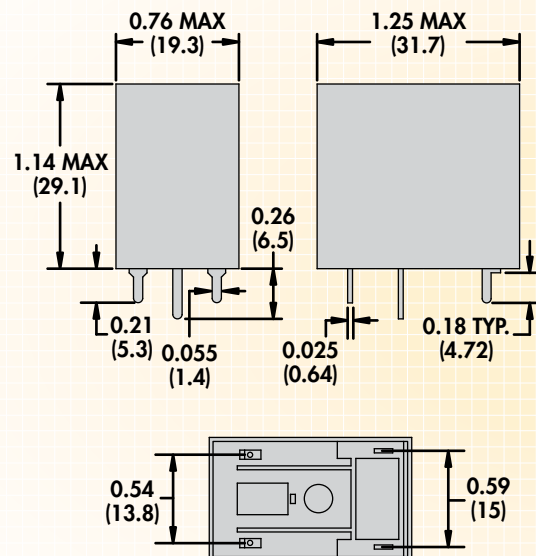
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Contact Characteristics			49 PCB Relay 10A		49 PCB Relay 5A		49 PCB Relay 3 A	
Contact form			SPDT		SPDT		SPDT	
Contact materials			Silver Alloy		Silver Alloy		Fine Silver	
Thermal carrying current			15A (NO)	10A (NC)	5A (NO)	5A (NC)	15A (NO)	3 A (NC)
Maximum switching voltage	~	15A @ 277 VAC 50/60Hz	10A @ 277 VAC 50/60Hz	5A @ 120 VAC 50/60Hz		15A @ 150 VAC 50/60Hz	3 A @ 150 VAC 50/60Hz	
	≡	15A @ 28 VDC	10A @ 28 VDC	5A @ 28 VDC		15A @ 28 VDC	3 A @ 28 VDC	
Contact ratings		1/3 HP @ 120 VAC		1/3 HP @ 120 VAC	1/3 HP @ 120 VAC	1/3 HP @ 120 VAC	1/3 HP @ 120 VAC	1/3 HP @ 120 VAC
		1/3 HP @ 240 VAC		1/6 HP @ 240 VAC	1/3 HP @ 240 VAC	1/6 HP @ 240 VAC	1/3 HP @ 240 VAC	1/6 HP @ 240 VAC
		1/4 HP @ 277 VAC		1/8 HP @ 277 VAC	1/4 HP @ 277 VAC	1/8 HP @ 277 VAC	1/4 HP @ 277 VAC	1/8 HP @ 277 VAC
		B300 Pilot Duty (120/240 VAC)		B300 Pilot Duty (120/240 VAC)		B300 Pilot Duty (120/240 VAC)		
Minimum switching requirement			100 mA		100 mA		100 mA	
Coil Characteristics								
Voltage range		≡	3 to 24 VDC		3 to 24 VDC		3 to 24 VDC	5 to 24 VDC
Operating range		≡	75% to 110% of nominal		75% to 110% of nominal		75% to 110% of nominal	
Average power consumption		≡	0.11 W		0.11 W		0.11 W	
Drop-out voltage threshold		≡	10%		10%		10%	
Performance Characteristics								
Electrical life			100,000 operations @ rated current		100,000 operations @ rated current		100,000 operations @ rated current	
Mechanical life			10,000,000 operations unpowered		10,000,000 operations unpowered		10,000,000 operations unpowered	
Response time			25 ms		25 ms		25 ms	
Dielectric strength	Between coil and contact	~	1500 V(rms)		2500 V(rms)		2500 V(rms)	
	Between contacts	~	500 V(rms)		500 V(rms)		500 V(rms)	
Environment								
Storage temperature			-40...+85 °C		-40...+85 °C		-40...+85 °C	
Operating temperature			-40...+55 °C		-40...+55 °C		-40...+55 °C	
Operational vibration resistance			3 g-n, 10 - 55 Hz		3 g-n, 10 - 55 Hz		3 g-n, 10 - 55 Hz	
Shock resistance			10 g-n		10 g-n		10 g-n	
Weight			42 grams		42 grams		42 grams	
Available footprint styles			RE1C1		RE1C1 & RE1C2		RE1C1	

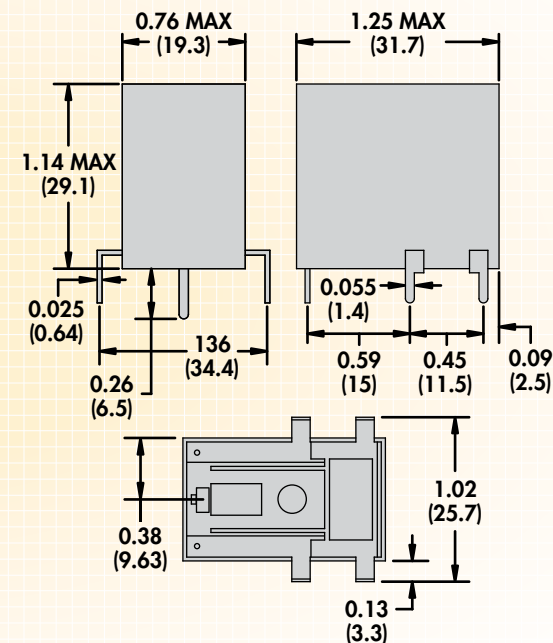
DIMENSIONS

shown in inches (millimeters)

STYLE RE1C1



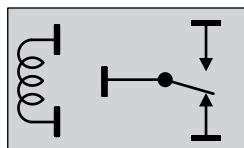
STYLE RE1C2



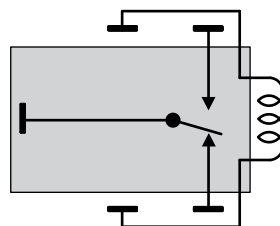
WIRING DIAGRAMS

top view

RE1C1

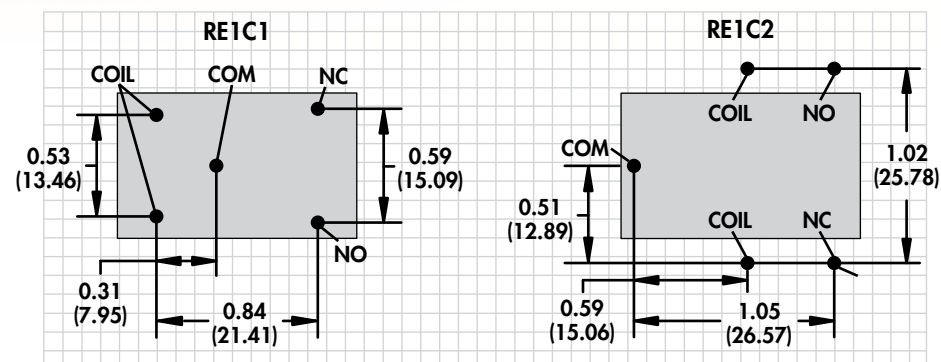


RE1C2



CIRCUIT BOARD PIN SPACING

top view (from component side)



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