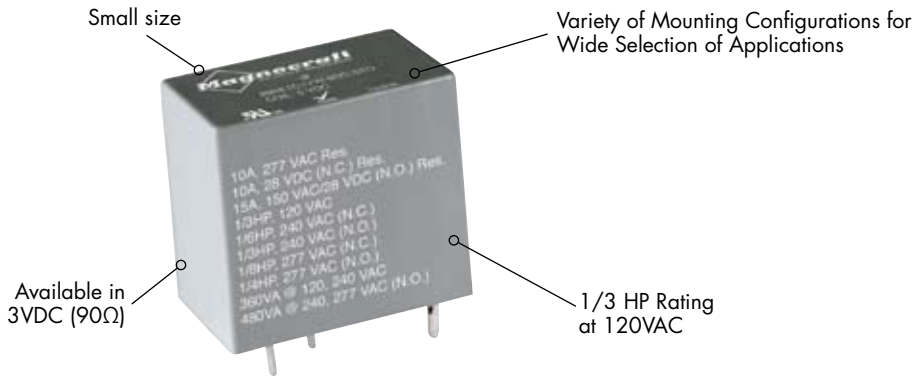
49 PCB Mount Enclosed Relay/SPDT 3 - 10 Amp Rated

UL Recognized
File No. E191122

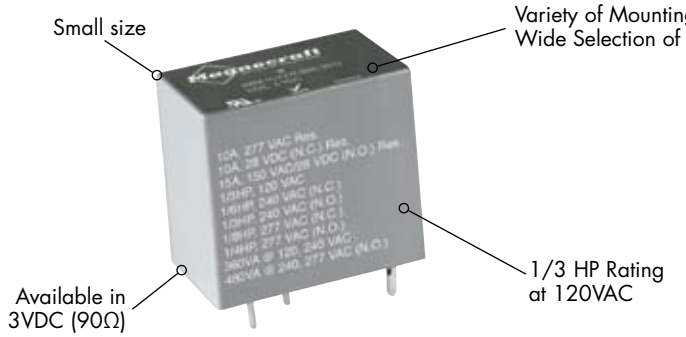
RoHS Compliant



General Specifications (UL 508)

Contact Characteristics			Units	10 Amp STO SPDT	
Number and type of Contacts				Normally Open	Normally Closed
Contact materials				Silver Alloy	
Current rating			A	15	10
Switching voltage		~	V	277 V 50/60 Hz	
		⎓	V	28 V	
			HP	1/3 @ 240 VAC	1/6 @ 240 VAC
			HP	1/4 @ 277 VAC	1/8 @ 277 VAC
			Pilot Duty	B300 (120/240 VAC)	
Minimum Switching Requirement			mA	100	
Coil Characteristics					
Voltage Range		⎓	V	3....24	
Operating Range	% of Nominal	⎓		75% to 110%	
Average consumption		⎓	W	0.11	
Drop-out voltage threshold		⎓		10%	
Performance Characteristics					
Electrical Life	Operations @ Rated Current (Resistive)			100,000	
Mechanical Life	Unpowered			10,000,000	
Operating time (response time)			ms	25	
Dielectric	Between coil and contact	~	V	1500	
	Between contacts	~	V	500	
Environment					
Product certifications	Standard version			UL	
Ambient air temperature around the device	Storage		°C	-40...+85	
	Operation		°C	-40...+55	
Vibration resistance	Operational		g-n	3, 10 to 55 Hz	
Shock resistance			g-n	10	
Weight			grams	42	

5 Amp STO SPDT		3 Amp SIL SPDT	
Normally Open	Normally Closed	Normally Open	Normally Closed
Silver Alloy		Fine Silver	
5		15	3
120 V 50/60 Hz		150 V 50/60 Hz	
28 V		28 V	
1/3 @ 240 VAC	1/6 @ 240 VAC	1/3 @ 240 VAC	1/6 @ 240 VAC
1/4 @ 277 VAC	1/8 @ 277 VAC	1/4 @ 277 VAC	1/8 @ 277 VAC
B300 (120/240 VAC)		B300 (120/240 VAC)	
100		100	
3....24		3....24	5....24
75% to 110%		75% to 110%	
0.11		0.11	
10%		10%	
100,000		100,000	
10,000,000		10,000,000	
25		25	
2500		2500	
500		500	
UL		UL	
-40...+85		-40...+85	
-40...+55		-40...+55	
3, 10 to 55 Hz		3, 10 to 55 Hz	
10		10	
42		42	



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Standard Part Numbers

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

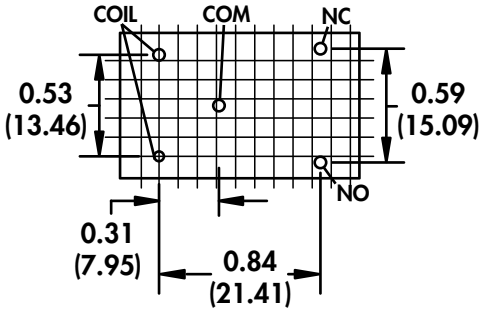
Nominal Input Voltage	Nominal Coil Resistance (Ω)	Part Number	Contact Configuration
3 Amp, Style RE1C1			
3 VDC	90 Ω	W49RE1C1VG-3DC-SIL	SPDT
5 VDC	235 Ω	W49RE1C1VG-5DC-SIL	SPDT
12 VDC	1350 Ω	**W49RE1C1VG-12DC-SIL**	SPDT
6 VDC	410 Ω	W49RE1C2VF-6DC-SIL	SPDT
12 VDC	1640 Ω	W49RE1C2VF-12DC-SIL	SPDT
24 VDC	6560 Ω	W49RE1C2VF-24DC-SIL	SPDT
5 Amp, Style RE1C1 and RE1C2			
5 VDC	235 Ω	**W49RE1C1VG-5DC-STO**	SPDT
12 VDC	1350 Ω	**W49RE1C1VG-12DC-STO**	SPDT
24 VDC	5400 Ω	**W49RE1C1VG-24DC-STO**	SPDT
6 VDC	410 Ω	**W49RE1C2VF-6DC-STO**	SPDT
12 VDC	1640 Ω	W49RE1C2VF-12DC-STO	SPDT
24 VDC	6560 Ω	W49RE1C2VF-24DC-STO	SPDT
10 Amp, Style RE1C1			
5 VDC	100 Ω	**W49RE1C1VW-5DC-STO**	SPDT
12 VDC	600 Ω	**W49RE1C1VW-12DC-STO**	SPDT
24 VDC	2400 Ω	**W49RE1C1VW-24DC-STO**	SPDT
10 Amp, Style R1C4			
5 VDC	235 Ω	W49R1C4VG-5DC-STO	SPDT
12 VDC	1350 Ω	W49R1C4VG-12DC-STO	SPDT
10 Amp, Style R1C4			
5 VDC	100 Ω	W49R1C4VW-5DC-STO	SPDT
24 VDC	2400 Ω	W49R1C4VW-24DC-STO	SPDT

Part Number Builder

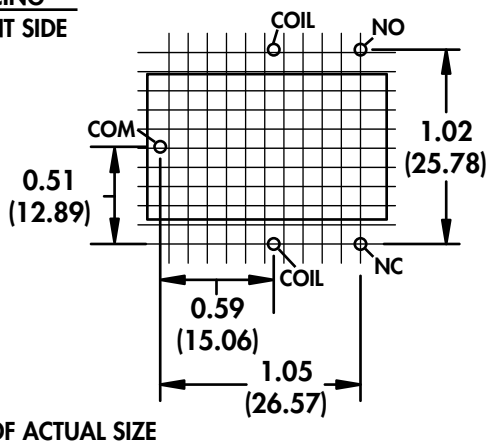
49	R1C4	VW	-5DC	-SCO
Series	**Footprint**	**Rating**	**Coil Voltage**	**Contact Material**
49	RE1C1 = Narrow Footprint	VG = (RE1C1) 5A STO or 3A SIL	3DC = 3 VDC	SIL = Fine Silver Contacts
	RE1C2 = Wide Footprint	VG (R1C4) = 10A STO	5DC = 5 VDC	STO = Silver Alloy Contacts
	R1C4 = Top Mounting Bracket	VF = (RE1C2) 5A STO or 3A SIL	6DC = 6 VDC	
		VW = 10A STO	12DC = 12 VDC	
			24DC = 24 VDC	

CIRCUIT BOARD PIN SPACING
VIEWED FROM COMPONENT SIDE
(TOP VIEW)

RE1C1 and R1C4



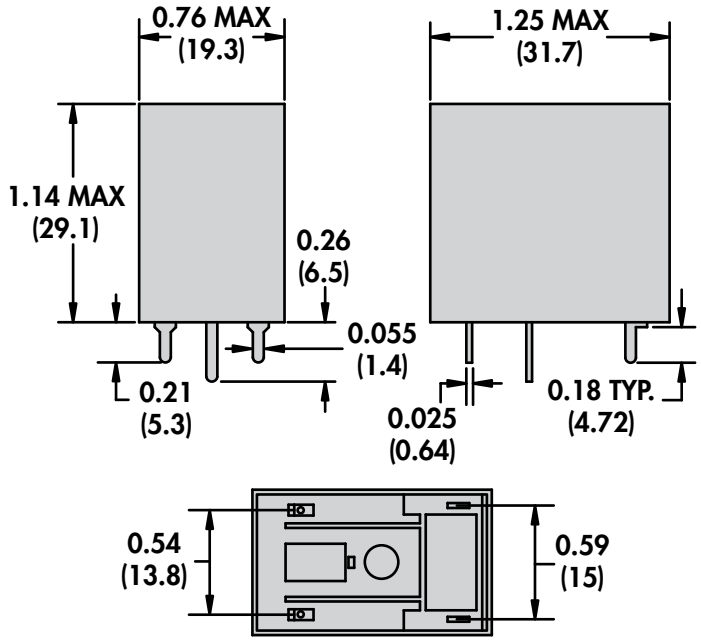
RE1C2



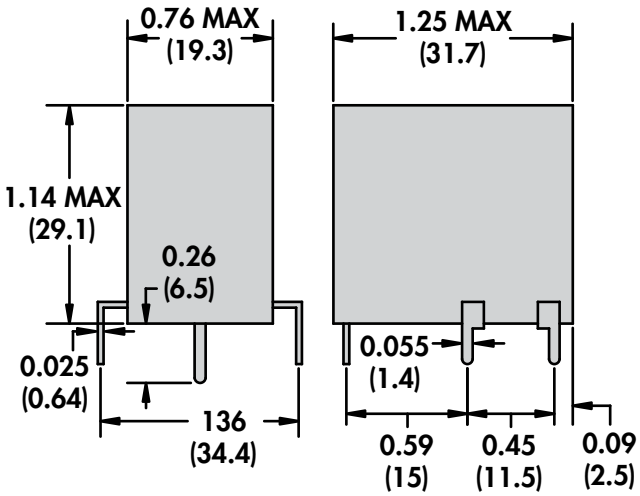
0.1 IN GRID
(2.54 MM)

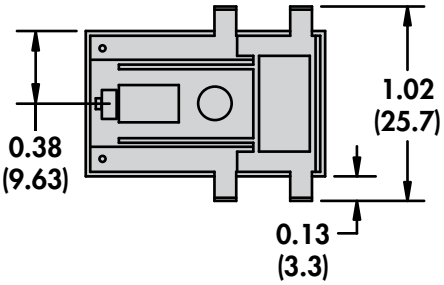
PIN SPACINGS SHOWN AT 100% OF ACTUAL SIZE

STYLE RE1C1

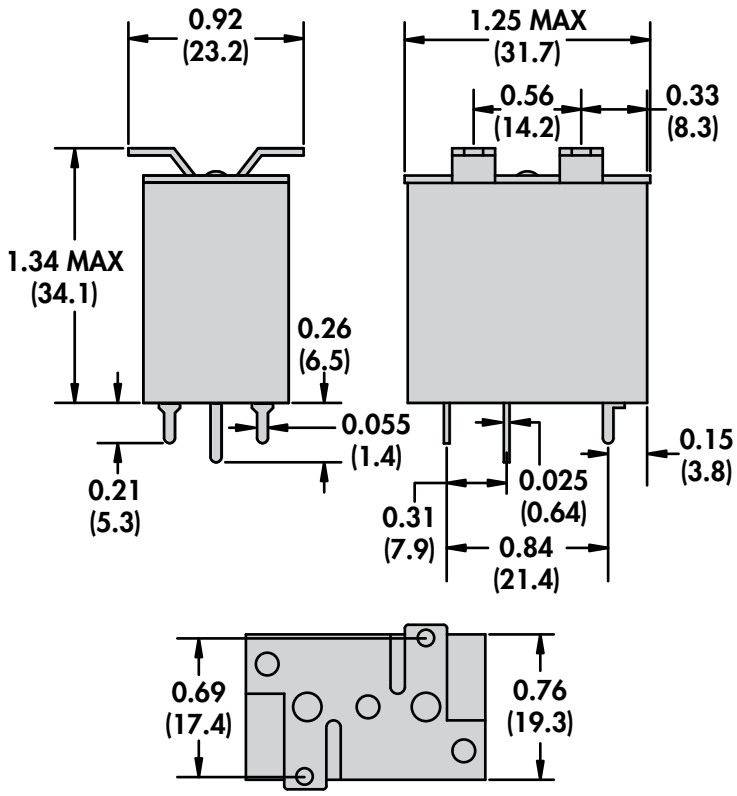


STYLE RE1C2

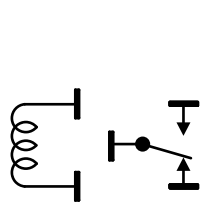




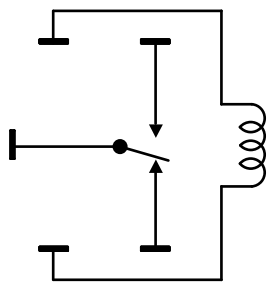
STYLE R1C4



WIRING DIAGRAMS
TOP VIEW



STYLE RE1C1 & R1C4



STYLE RE1C2

DRAWINGS SHOWN AT 100% OF ACTUAL SIZE