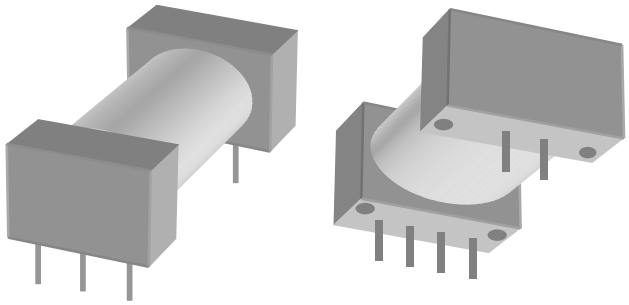
OPEN FRAME SERIES 1.000 x .100 1.000 x .150

- **High performance, low cost, open frame plug-in type dry reed relays.**
- **Durable molded glass-filled polyester relay body with reed contact and terminals securely held in place at each end with epoxy.**



OUTLINE DIMENSIONS

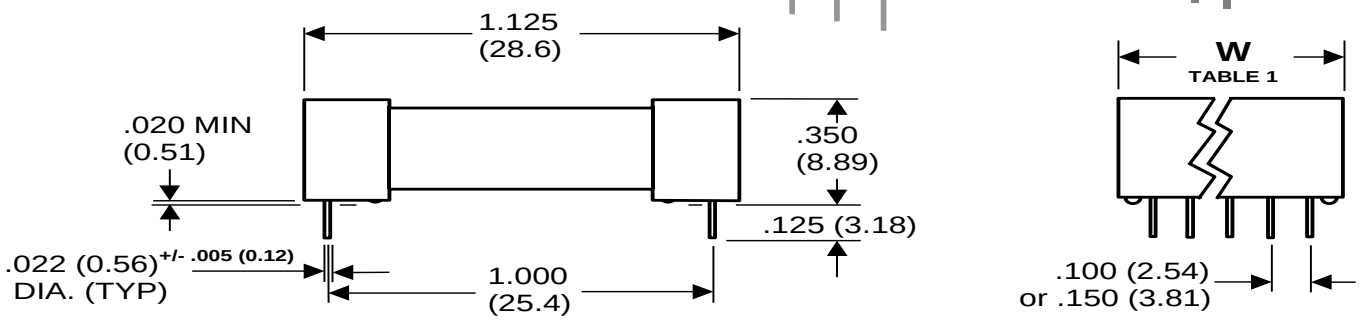


TABLE 1

	CONTACT FORM					
	1A or 1C	**2A, 1B, 1J or 1K**	**3A**	**2B**	**2C**	**4A**
W (1.000 x .100)	.440 (11.18)	.425 (10.79)	.525 (13.33)	.550 (13.97)	.550 (13.97)	.640(16.26)
W (1.000 x .150)	.440 (11.18)	.550 (13.97)	NA	.550 (13.97)	.550 (13.97)	NA

Notes:

1. Dimensions are in inches (mm)
2. Tolerance unless otherwise specified is +\- .015" (0.38 mm)
3. Unused terminals are deleted.

ELECTRICAL AND OPERATING CHARACTERISTICS

Characteristics	Form A/B	Form C
Contact Ratings: **Power (Resistive load)** **Voltage (Max. switching)** **Current (Max. switching)** **(Max. carrying)**	 10 Watts 200 VDC 0.5 Amps 2.0 Amps	 3 Watts 100 VDC 0.25 Amps 1.2 Amps
Breakdown Voltage (Min.) (Across contact)	300 VDC	200 VDC
Contact Resistance (Max. Initial)	0.2 Ohms	0.2 Ohms
Operating Time (Typical)	0.5 mSec	0.5 mSec
Release Time (Typical)	0.2 / 0.5 mSec	0.5 mSec
Bounce Time (Typical)	0.25 mSec	NO / NC : 0.5 / 1.5 mSec
Insulation Resistance (Min.)	10^{10} Ohms	10^{9} Ohms
Capacitance (Typical)	0.2 pF	0.8 pF
Life Expectancy: **Low level:** **Rated load:**	 100 x 10^{6} Operations 10 x 10^{6} Operations	 50 x 10^{6} Operations 5 x 10^{6} Operations
Operating Temperature	-40°C to +85°C	-40°C to +85°C
Vibration	20G, 10 to 2000 Hz	20G, 10 to 2000 Hz
Shock	50G @ 11 MS durations	50G @ 11 MS durations

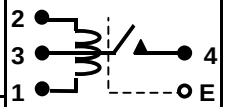
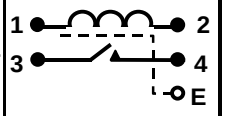
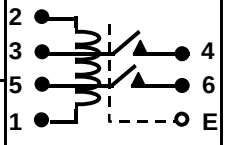
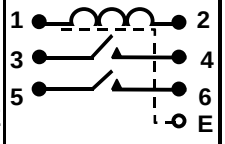
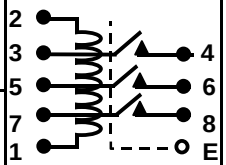
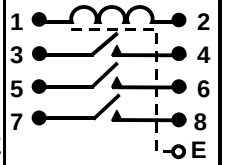
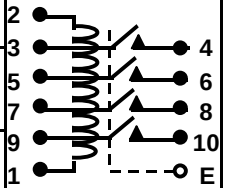
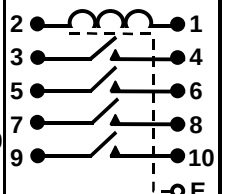
OPTIONAL FEATURES:

1. Change the last digit (**O**) of a part number to (**A**) for **Magnetic shield**, to (**B**) for **Electro-static shield**, and to (**C**) for **both Magnetic and Electro-static shields**.
2. For .150" pin spacing, change the first digit (**C**) to (**F**) for end coil, and (**D**) to (**G**) for side coil.

American Relays, Inc. (562) 926-2837, Fax (562) 926-2703, E-mail: Sales@americanrelays.com

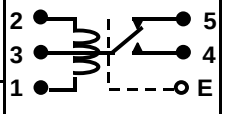
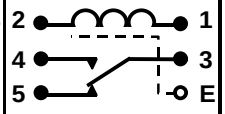
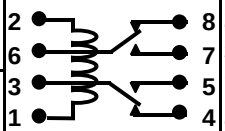
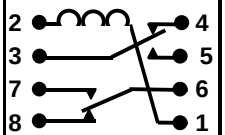
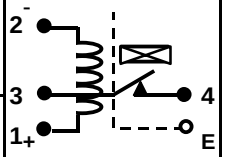
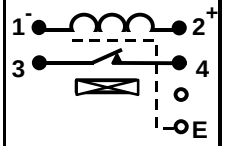
OPEN FRAME SERIES REED RELAYS

PART NUMBERS AND COIL DATA (@ 25°C)

Contact Form	Part Number (End coil)	Part Number (Side coil)	Nom. Voltage VDC	Max. Voltage VDC	Coil Res. Ohms +/-10%	Must Operate VDC	Must Release VDC	Schematic Top-view (End coil)	Schematic Top-view (Side coil)
1A	C051A1RO	D051A1RO	5	7.5	125	3.8	0.5		
	C051A2RO	D051A2RO			500				
	C051A3RO	D051A3RO			750				
	C061A1RO	D061A1RO	6	9	125	4.5	0.6		
	C061A2RO	D061A2RO			500				
	C061A3RO	D061A3RO			750				
	C121A1RO	D121A1RO	12	18	750	9.0	1.2		
	C121A2RO	D121A2RO			1000				
	C121A3RO	D121A3RO			2000				
	C241A2RO	D241A2RO	24	36	2000	18.0	2.4		
	C241A3RO	D241A3RO			4000				
2A	C052A1RO	D052A1RO	5	7.5	100	3.8	0.5		
	C052A2RO	D052A2RO			300				
	C052A3RO	D052A3RO			500				
	C062A1RO	D062A1RO	6	9	100	4.5	0.6		
	C062A2RO	D062A2RO			300				
	C062A3RO	D062A3RO			500				
	C122A1RO	D122A1RO	12	18	300	9.0	1.2		
	C122A2RO	D122A2RO			750				
	C122A3RO	D122A3RO			1500				
	C242A2RO	D242A2RO	24	36	1500	18.0	2.4		
	C242A3RO	D242A3RO			3000				
3A	C053A1RO	D053A1RO	5	7.5	75	3.8	0.5		
	C053A2RO	D053A2RO			250				
	C053A4RO	D053A4RO			350				
	C063A1RO	D063A1RO	6	9	75	4.5	0.6		
	C063A2RO	D063A2RO			250				
	C063A3RO	D063A3RO			500				
	C123A1RO	D123A1RO	12	18	250	9.0	1.2		
	C123A2RO	D123A2RO			500				
	C123A3RO	D123A3RO			1000				
	C243A2RO	D243A2RO	24	36	1000	18.0	2.4		
	C243A3RO	D243A3RO			2000				
4A	C054A1RO	D054A1RO	5	7.5	60	3.8	0.5		
	C054A2RO	D054A2RO			150				
	C064A1RO	D064A1RO	6	9	60	4.0	0.6		
	C064A2RO	D064A2RO			150				
	C124A1RO	D124A1RO	12	18	200	9.0	1.2		
	C124A2RO	D124A2RO			375				
	C244A2RO	D244A2RO	24	36	1000	12.0	2.4		

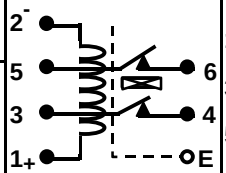
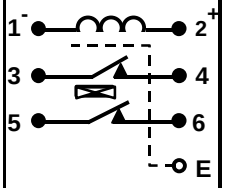
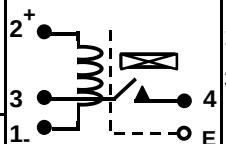
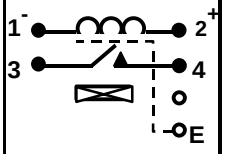
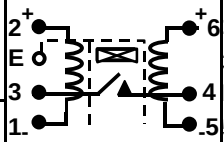
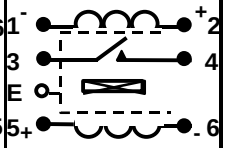
OPEN FRAME SERIES REED RELAYS

PART NUMBERS AND COIL DATA (@ 25°C)

Contact Form	Part Number (End coil)	Part Number (Side coil)	Nom. Voltage VDC	Max. Voltage VDC	Coil Res. Ohms +/-10%	Must Operate VDC	Must Release VDC	Schematic Top-view (End coil)	Schematic Top-view (Side coil)
1C	C051C1RO	D051C1RO	5	7.5	125	3.8	0.5		
	C051C2RO	D051C2RO			500				
	C051C3RO	D051C3RO			750				
	C061C1RO	D061C1RO	6	9	125	4.5	0.6		
	C061C2RO	D061C2RO			500				
	C061C3RO	D061C3RO			750				
	C121C1RO	D121C1RO	12	18	750	9.0	1.2		
	C121C2RO	D121C2RO			1000				
	C121C3RO	D121C3RO			2000				
	C241C2RO	D241C2RO	24	36	2000	18.0	2.4		
	C241C3RO	D241C3RO			4000				
2C	C052C1RO	D052C1RO	5	7.5	100	3.8	0.5		
	C052C2RO	D052C2RO			300				
	C062C1RO	D062C1RO	6	9	100	4.0	0.6		
	C062C2RO	D062C2RO			300				
	C062C3RO	D062C3RO			750				
	C122C1RO	D122C1RO	12	18	300	9.0	1.2		
	C122C2RO	D122C2RO			750				
	C122C3RO	D122C3RO			1500				
	C242C2RO	D242C2RO	24	36	1500	12.0	2.4		
	C242C3RO	D242C3RO			3000				
1B	C051B1RO	D051B1RO	5	7.5	125	3.8	0.5		
	C051B2RO	D051B2RO			500				
	C051B3RO	D051B3RO			750				
	C061B1RO	D061B1RO	6	9	125	4.5	0.6		
	C061B2RO	D061B2RO			500				
	C061B3RO	D061B3RO			750				
	C121B1RO	D121B1RO	12	18	750	9.0	1.2		
	C121B2RO	D121B2RO			1000				
	C121B3RO	D121B3RO			2000				
	C241B2RO	D241B2RO	24	36	2000	18.0	2.4		
	C241B3RO	D241B3RO			4000				

OPEN FRAME SERIES REED RELAYS

PART NUMBERS AND COIL DATA (@ 25°C)

Contact Form	Part Number (End coil)	Part Number (Side coil)	Nom. Voltage VDC	Max. Voltage VDC	Coil Res. Ohms +/-10%	Must Operate VDC	Must Release VDC	Schematic Top-view (End coil)	Schematic Top-view (Side coil)
2B	C052B1RO	D052B1RO	5	7.5	100	3.8	0.5		
	C052B2RO	D052B2RO			300				
	C062B1RO	D062B1RO	6	9	100	4.5	0.6		
	C062B2RO	D062B2RO			300				
	C062B4RO	D062B4RO			500				
	C122B1RO	D122B1RO	12	18	300	9.0	1.2		
	C122B2RO	D122B2RO			750				
	C122B3RO	D122B3RO			1500				
	C242B2RO	D242B2RO	24	36	1500	18.0	2.4		
	C242B3RO	D242B3RO			3000				
1A LATCH SINGLE COIL (1J)	C051J1RO	D051J1RO	5	7.5	125	3.8	0.5		
	C051J2RO	D051J2RO			500				
	C051J3RO	D051J3RO			750				
	C061J1RO	D061J1RO	6	9	125	4.5	0.6		
	C061J2RO	D061J2RO			500				
	C061J3RO	D061J3RO			750				
	C121J1RO	D121J1RO	12	18	750	9.0	1.2		
	C121J2RO	D121J2RO			1000				
	C121J3RO	D121J3RO			2000				
	C241J2RO	D241J2RO	24	36	2000	18.0	2.4		
	C241J3RO	D241J3RO			4000				
1A LATCH DUAL COIL (1K)	C051K1RO	D051K1RO	5	7.5	75	3.8	0.5		
	C051K2RO	D051K2RO			250				
	C051K3RO	D051K3RO			375				
	C061K1RO	D061K1RO	6	9	75	4.5	0.6		
	C061K2RO	D061K2RO			250				
	C061K3RO	D061K3RO			375				
	C121K1RO	D121K1RO	12	18	375	9.0	1.2		
	C121K2RO	D121K2RO			500				
	C121K3RO	D121K3RO			1000				
	C241K2RO	D241K2RO	24	36	1000	18.0	2.4		
	C241K3RO	D241K3RO			2000				

NOTES:

1. On latching relays, either coil will close the contact(s) with the polarity shown on the schematic. Reversing the polarity opens the contact(s).
2. Open frame reed relays with contact forms, coil resistances and operating voltages other than shown in this catalog are available.
3. Electrostatic shield is optional (Shield pin is E on schematic).