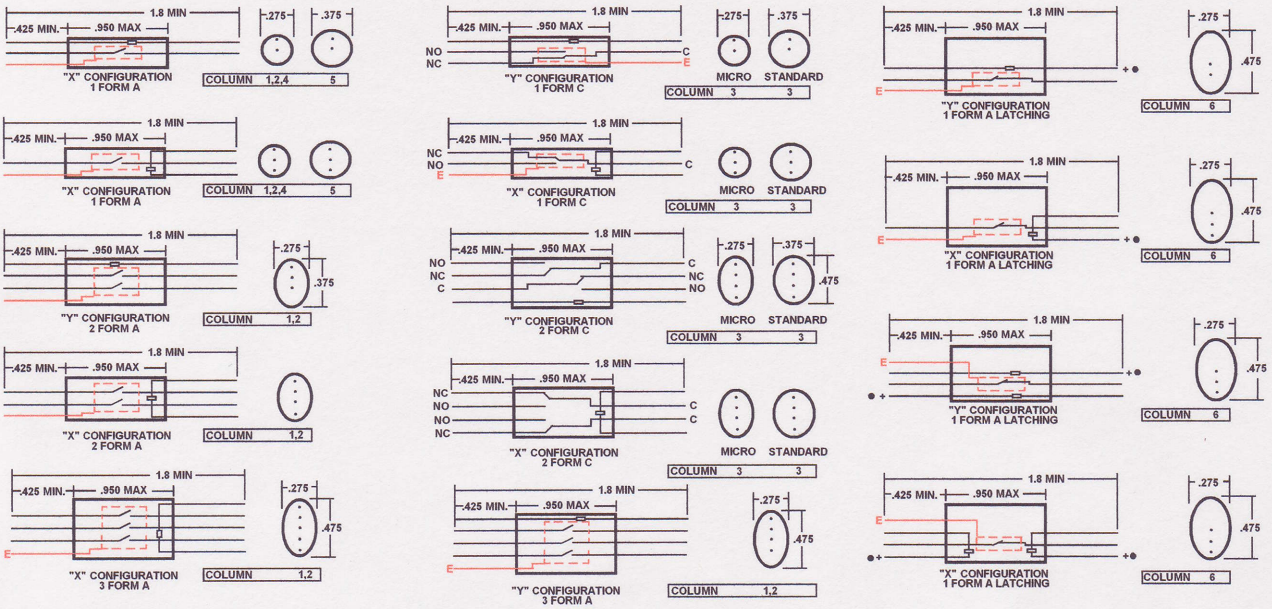
REED RELAYS SERIES 40, SERIES B1A-TEL

SERIES 40

ELECTRICAL AND OPERATING CHARACTERISTICS



ALL RELAYS HAVE STEEL JACKET MAGNETIC SHIELD

MERCURY WETTED RELAYS (COLUMN 5) ARE POSITION SENSITIVE
MOUNTING POSITION VERTICLE + / - 30 DEGREES

SPECIAL NOTES
TERMINAL DIAMETER .022 + / - .005
TERMINAL SPACING .100 + / - .025

COLUMN NUMBER			1	2	3		4	5	6
	CONTACT TYPE		1 FORM A 2 FORM A 3 FORM A SPST	1 FORM A 2 FORM A 3 FORM A SPST	1 FORM C 2 FORM C SPDT	1 FORM C 2 FORM C SPDT	1 FORM A SPST	1 FORM A SPST	1 FORM B (SPST) LATCHING
CONTACT RATINGS	RELAY TYPES		HI-REL	COMMERCIAL	STANDARD	MICRO	HI-VOLTAGE	MERCURY	1 OR 2 COILS
VOLTAGE SWITCHING	MAXIMUM	VDC	250	250	200		1000	250	200
CURRENT SWITCHING	MAXIMUM	AMP	1.5	1.0	500 MA		750MA	2	500MA
POWER SWITCHING	MAXIMUM	WATTS	30	20	10		15	50	10
CURRENT CARRY	MAXIMUM	AMP	2	2	1		2		1.0
CAPACITANCE	TYPICAL	PF	.2	.2	.8		.2	.2	.2
CONTACT RESISTANCE	TYPICAL	OHMS	.100	.100	.100		.100	0.50	.100
OPERATE TIME	TYPICAL	MS	.5	.5	.5		.5	.5	.5
RELEASE TIME	TYPICAL	MS	.25	.25	.25		.25	.5	.5
TEMPERATURE		DEGREES C	-55C TO +85 C	-55C TO +85 C	-55C TO +85 C		-55C TO +85 C	-55C TO +85 C	-55C TO +85 C
SHOCK		DURATION	200G @ 11 MS	200G @ 11 MS	200G @ 11 MS		200G @ 11 MS		200G @ 11 MS
VIBRATION			50G @ 0-2000HZ	30G @ 0-2000HZ	30G @ 0-2000HZ		50G @ 0-2000HZ		50G @ 0-2000HZ *(B FORM)*
INSULATION RESISTANCE	MINIMUM	20 DEGREES C	10 TO THE 10TH	10 TO THE 10TH	10 TO THE 10TH		10 TO THE 12TH	10 TO THE 12TH	10 TO THE 9TH
									25G @ 0-1000HZ *(LATCH)*

NOMINAL COIL VOLTAGE	PICKUP VDC MAXIMUM @ 20 DEG. C	DROPOUT VDC MINIMUM @ 20 DEG. C	PART NUMBER / COIL RESISTANCE (OHMS)																	
			1 FORM A (SPST)	OHMS	2 FORM A (SPST)	OHMS	3 FORM A (SPST)	OHMS	1 FORM C (SPDT)	OHMS	2 FORM C (DPDT)	OHMS	1 FORM A (SPST) HV	OHMS	1 FORM A (SPST) MW	OHMS	1 FORM B (SPST)	OHMS	1 FORM B (SPST) LATCHING	OHMS	2 FORM B (SPST) LATCHING	OHMS
5	3.75	0.5	1A5A(-X)	100	2A5A(-X)	75	3A5A(-X)	50	1C5A	100	2C5A	75	1A5A-HV	100	1AHG5A	100	1B5A	100	1A5AL	100	1A5A2L	50
			1A5AH(-X)	400	2A5AH(-X)	300	3A5AH(-X)	200	1C5AH	200	2C5AH	150	1A5AH-HV	400	1AHG5AH	200	1B5AH	400	1B5AHL	400	1B5AH2L	200
			1A5AHH(-X)	700	2A5AHH(-X)	500	3A5AHH(-X)	350	1C5AHH	400	2C5AHH	300					1B5AHH	700	1B5AHHL	700	1B5AHH2L	350
12	9.0	1.2	1A12A(-X)	500	2A12A(-X)	375	3A12A(-X)	250	1C12A	500	2C12A	375	1A12A-HV	500	1AHG12A	500	1B12A	500	1A12AL	500	1B12A2L	500
			1A12AH(-X)	1000	2A12AH(-X)	750	3A12AH(-X)	500	1C12AH	1000	2C12AH	750	1A12AH-HV	1000	1AHG12AH	1000	1B12AH	1000	1A12AHL	1000	1B12AH2L	1000
			1A12AHH(-X)	2000	2A12AHH(-X)	1500	3A12AHH(-X)	1000	1C12AHH	2000	2C12AHH	1500					1B12AHH	2000	1A12AHHL	2000	1B12AHH2L	2000
24	18.0	2.4	1A24A(-X) *	1000	2A24A(-X) *	750	3A24A(-X) *	500	1C24A	1000	2C24A	750	1A24A-HV	1000	1AHG24A	1000	1B24A	1000	1A24AL	1000	1B24A2L	1000
			1A24AH(-X)	2000	2A24AH(-X)	1500	3A24AH(-X)	1000	1C24AH	2000	2C24AH	1500	1A24AH-HV	2000	1AHG24AH	2000	1B24AH	2000	1A24AHL	2000	1B24AH2L	2000
			1A24AHH(-X)	4000	2A24AHH(-X)	3000	3A24AHH(-X)	2000	1C24AHH	4000	2C24AHH	3000					1B24AHH	4000	1A24AHHL	4000	1B24AHH2L	4000
COLUMN NUMBER			1, 2						3				4		5		6					

SPECIAL CHARACTERISTICS

(Y) - WHEN "Y" OPTION LAYOUT IS REQUIRED ADD "Y" TO THE PART # AFTER THE "A" (E.G. 1A5AYH)
(-1) - PLASTIC INSULATING SLEEVE
(-2) - LEADS BENT TO 1.00 INCH CENTERS & INSULATION SLEEVING
(-3) - LEADS BENT TO 1.0 INCH CENTERS FOR PRINTED CIRCUIT BOARD INSERTION

GLOSSARY

(E) ELECTROSTATIC SHIELD
(-X) HI-RELIABILITY REED RELAY
(HV) HIGH VOLTAGE REED RELAY
(HG) MERCURY WETTED REED RELAY
(L) SINGLE COIL LATCHING REED RELAY
(2L) DUAL COIL LATCHING REED RELAY
● - POSITIVE LEAD IDENTIFICATION. LOCATED ON TOP OF RELAY
* - NOT RECOMMENDED FOR CONTINUOUS DUTY CYCLE APPLICATIONS (24VDC)

PART NUMBER BREAKDOWN

1A 12 AHH Y -3
- -3 — SPECIAL CHARACTERISTICS
- Y — SPECIAL LAYOUT (CONFIGURATION)
- 12 — COIL RESISTANCE OHMS
- 1A — NOMINAL VOLTAGE
- A — CONTACT FORM

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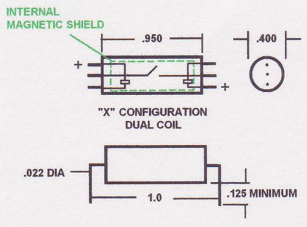

GENERAL SPECIFICATIONS

VOLTAGE (MAXIMUM SWITCHING)	200 VDC
VOLTAGE (MINIMUM BREAKDOWN)	300 VDC
CURRENT (MAXIMUM SWITCHING)	0.5 AMPS
CURRENT (MAXIMUM GATING)	1.0 AMPS
POWER (PURE RESISTIVE)	10 WATTS
CAPACITANCE (TYPICAL)	0.2 PF
CONTACT RESISTANCE (TYPICAL)	0.2 OHMS
OPERATE TIME (TYPICAL)	1.0 MS
LIFE (@ LOW LOAD, MINIMUM OPERATIONS	100 X 10 TO TH 6TH
LIFE (@ RATED LOAD, MINIMUM OPERATIONS	10 X 10 TO THE 6TH

OPERATING CHARACTERISTICS

NOMINAL CURRENT (CAN BE OPERATED @ 125 MAX	20 MA DC
PICK UP CURRENT (MAXIMUM)	18 MA DC
DROP OUT CURRENT (MINIMUM)	6 MA DC
PICK UP & DROP OUT ARE MEASURED WITH BOTH COILS IN SERIES, AIDING EACH OTHER	
COIL RESISTANCE (EACH COIL)	19.8 OHMS MAXIMUM
EACH COIL, .50 OHMS MAXIMUM DIFFERENCE BETWEEN COILS, INDUCTANCE 4 MH EACH COIL MATCHED WITHIN .04 MH TO EACH OTHER	
OPERATING TEMPERATURE	- 20 DEGREES C TO +85 DEGREES C
SHOCK	50G @ 11MS
INSULATION RESISTANCE (MINIMUM)	10 TO THE 9TH OHMS MINIMUM
VIBRATION	10G @ 0-2000 HZ
COIL TO COIL BREAKDOWN VOLTAGE	1000 VDC
COIL TO CONTACT BREAKDOWN VOLTAGE	1500 VDC
LONGITUDINAL BALANCE (MINIMUM)	63 DB
200 HZ TO 3KHZ, 20 TO 100 MA	

NOTE: ALL SCHEMATICS ARE TOP VIEWS