

High voltage reed relay - HVK1

One Form A, one Form B.

8KVdc switching.

17KVdc coil to contact isolation.

Printed circuit pins and polyamide bolt mounting.

'250' series push on connector tabs or flying leads

Fully vacuum (5 torr) encapsulated.

If you have a volume requirement for a product variant not shown on this sheet please contact us.

Coil Details at 25°C, 75% RH

Typical operate time
Typical release time
Typical bounce time
Typical bounce time

1.0 - 1.5mS (without coil lag)
0.5 - 1.0mS (without coil lag)

Contact Details **Main Contact** Initial contact resistance $100m\Omega$ max $40m\Omega$ typical Maximum switching voltage 8KVdc 3A (resistive) Maximum switching current Maximum switching power 50W (dc or ac peak) Electrical life No deterioration in contact resistance <40m Ω after 10,000,000 cycles at: (a) 3A, 16.6Vdc or (b) 1mA, 8KVdc

Other electrical details at 20°C 75% RH

Insulation resistance across main contact: $10^3 M\Omega$ at 1KVdc Withstand across main contact (Form A): 9KVdc 1 min Withstand across main contact (Form B): 8KVdc 1min

Temperature range

Operating: 0°C to +30°C at nominal voltage. Between +30°C

and +50°C the nominal voltage must be increased

by 0.4% per °C above +30°C.

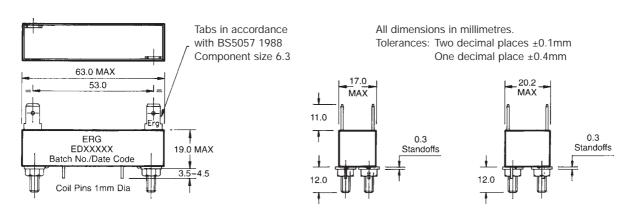
Storage: -25°C to +85°C

Whilst incorporating an internal magnetic screen to maximise coil efficiency, the relays must be mounted clear from stray magnetic fields.

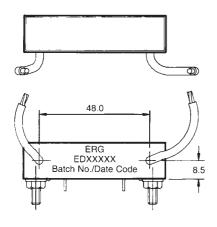
Specifications at 20°C and 75% RH						
	Nominal	Resistance	Must	Must	Order	Codes
	Volts	Ohms	Operate	Release	Push on tabs	Flying leads
Form A	5Vdc	50	4.0Vdc	0.25Vdc	ED14134	ED14234
Contact	12Vdc	200	9.6Vdc	0.60Vdc	ED14133	ED14233
	24Vdc	820	19.2Vdc	1.20Vdc	ED14132	ED14232
Form B*	5Vdc	55	4.0Vdc	0.50Vdc	ED14147	ED14247
Contact	12Vdc	320	9.6Vdc	1.20Vdc	ED14146	ED14246
	24Vdc	1000	19.2Vdc	2.40Vdc	ED14145	ED14245

^{*}Form B relay coils require a step function operate voltage waveform.





Flying Lead Connection - Mechanical Details



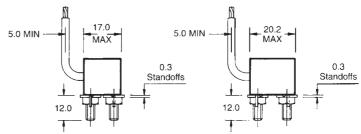
Silicone rubber insulated lead. Red. Length 150mm min.

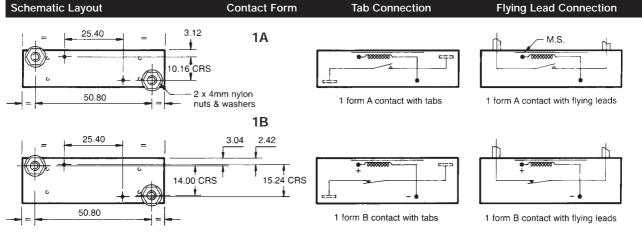
Overall diameter - 2.6mm nominal, conductor 16/0.02mm.

Voltage category A(BS6195) Current rating: 3A

Continuous operating temperature -60°C to +150°C

(Other lead wires, lengths, terminals and finishes can be supplied)





Schematic arrangements (viewed from underside)

This leaflet is believed to contain the best information available at the time of printing, but is subject to change without notice. Performance figures, where quoted, are actually estimates based on our experience or that of our customers or statutory authorities. In common with all components reliability varies with many factors, and users are invited to contact us in appropriate cases so that where relevant information is available it may be considered by the user. All supplies are subject to the Company's standard conditions of sale which are available on request.



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