



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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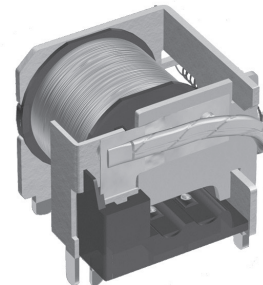


Power Relay K-S

- Very low voltage drop
- Wide voltage range

Typical applications

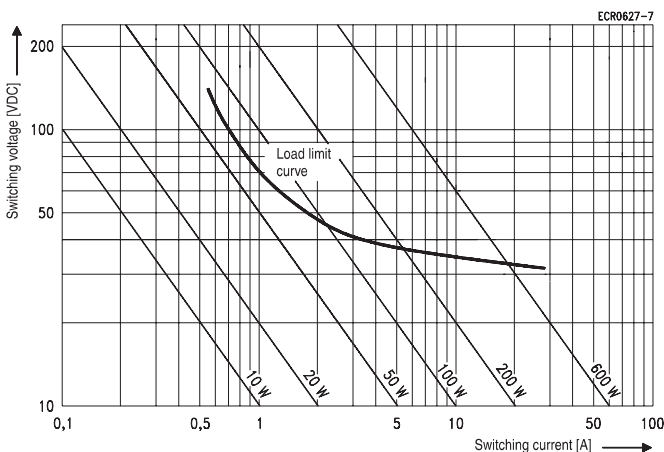
ABS control, blower fans, cooling fan, engine control, glow plug, heated rear screen, ignition, main switch/supply relay, preheating system, valves, wiper control.



C071S_fcw1b

Contact Data	12VDC	24VDC
Contact arrangement	1 form A, 1 NO	
Rated voltage	12VDC	24VDC
Rated current	70A	
Limiting continuous current	70A	
23°C	70A	
85°C	50A	
Limiting making current	300A ¹⁾²⁾	150A ¹⁾²⁾
Limiting breaking current	70A ¹⁾	35A ¹⁾
Contact material	AgNi0.15	
Min. recommended contact load	1A at 5VDC ³⁾	
Initial voltage drop at 10A, typ./max.	10/300mV	
Frequency of operation	20 ops./s ⁴⁾	
Operate/release time max.	typ. 4/3ms ⁵⁾	
Electrical endurance		
resistive load,	>5x10 ⁴ ops.	>1x10 ⁵ ops.
	at 13.5VDC, 50A	at 27.5VDC, 15A
Mechanical endurance	>10 ⁶ ops.	

Max. DC load breaking capacity



Max. DC load breaking curve: safe shutdown, no stationary arc.
Load limit curves measured with low inductive resistors verified for 1000 switching events.

- 1) The values apply to a resistive or inductive load with suitable spark suppression and at maximum 13.5VDC for 12VDC or 27VDC for 24VDC load voltages.
- 2) For a load current duration of maximum 3s for a make/break ratio of 1:10.
- 3) See chapter Diagnostics of Relays in our Application Notes or consult the internet at <http://relays.te.com/appnotes/>
- 4) With load the values depend on PCB layer design and max. environmental temperature.
- 5) For unsuppressed relay coil. A low resistive suppression device in parallel to the relay coil increases the release time and reduces the lifetime caused by increased erosion and/or higher risk of contact tack welding (monostable version only).

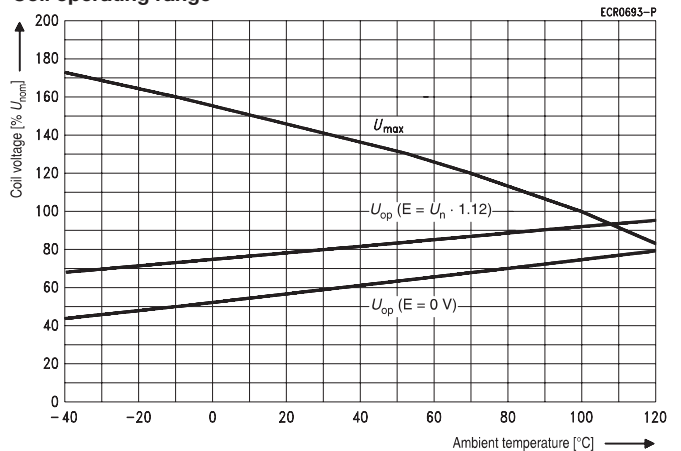
Coil Data	12VDC, 24VDC ⁶⁾
Rated coil voltage	12VDC, 24VDC ⁶⁾
6) Other nominal voltages available on request.	

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power W
009	12	6.9	1.2	64	2.3
010	24	14.1	2.4	234	2.5

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Coil operating range



Does not take into account the temperature rise due to the contact current
E = pre-energization.

Insulation Data

Initial dielectric strength	500VACrms
between contact and coil	

Power Relay K-S (Continued)

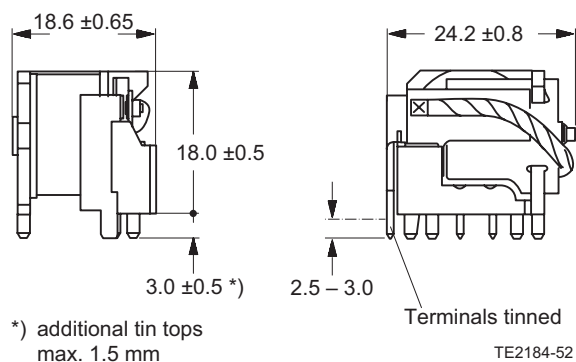
Other Data

EU RoHS/ELV compliance	compliant
Ambient temperature	-40 to +85°C ⁽⁶⁾
Category of environmental protection, IEC 61810	RT II – fluxproof
Vibration resistance (functional) IEC 68-2-6 (sine pulse form), 10 to 200Hz no change in the switching state >10μs	20 to 40g
Shock resistance (functional) IEC 68-2-27 (half sine form single pulses), 8ms open form A (NO) contact will not close >10μs	30g
Terminal type	PCB
Weight	approx. 19g (0.68oz)
Resistance to soldering heat THT IEC 60068-2-20, Tb, method 1A,	10s+/-1s with shielding
Storage conditions	according IEC 60068 ⁽⁷⁾
Packaging unit	400 pcs.

6) See graph: coil operating range.

7) For general storage and processing recommendations please refer to our Application Notes and especially to Storage in the Definitions or at <http://relays.te.com/appnotes/>

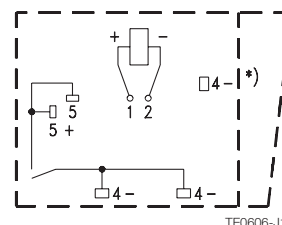
Dimensions



Terminal Assignment

Bottom view on solder pins

1 form A, 1 NO



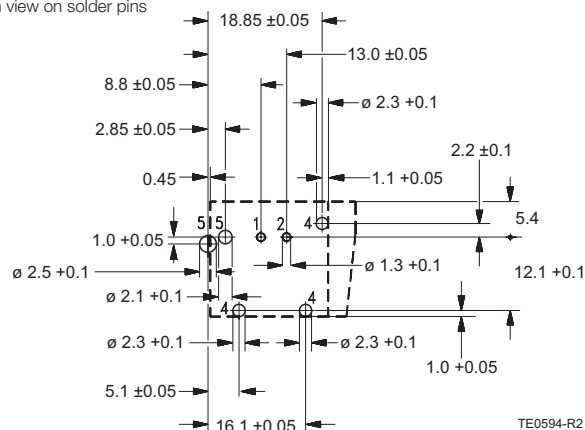
Note:

Note:
Check polarity and frame connection (ground)

* For mounting only, not for electrical connection.

PCB Layout

Bottom view on solder pins



Product code structure

Typical product code

Type		V23071	Power Relay K-S
Terminal and enclosure		A	PCB, open (RT II)
Design		1	Single relay
Coil		009	12VDC
		010	24VDC
Contact type		A	Single contact
Contact material		13	AgNi0.15
Contact arrangement		2	1 form A, 1 NO

Product code	Terminal/Encl.	Design	Coil	Contact type	Cont. material	Arrangement	Part number
V23071-A1009-A132	PCB, open	Single relay	12 VDC	Single contact	AgNi0.15	1 form A, 1 NO	1393276-3
V23071-A1010-A132			24 VDC				1393276-7