Reed Relay V23100 -V6

- **Reed contact**
- **Small size**
- **Dust protected**
- **1 or 2 make contacts, neutral, monostable or**
- **1 make and 1 break contact, polarised, monostable**
- **Printed circuit mounting**

Contact Data	A101	A201	A112
Contact arrangement	1 make	2 makes	1 make 1 break
Maximum switching voltage		100	
Maximum switching current			
break	-	-	0.25 A
make	0.5 A	0.5 A	0.5 A
Maximum power rating		10 W	
Maximum continuous current			
break			
make	-	-	0.25 A
	0.75 A	0.75 A	0.75 A

Coil Data

Coil code	Rated voltage VDC	Minimum voltage U_I VDC	Maximum voltage U_{II} VDC	Resistance at 20°C Ω
004	5	3.7	10.8	430 ± 43
001	6	4.5	10.8	430 ± 43
002	12	8.4	21.6	1100 ± 110
003	24	16.4	42.5	3860 ± 580

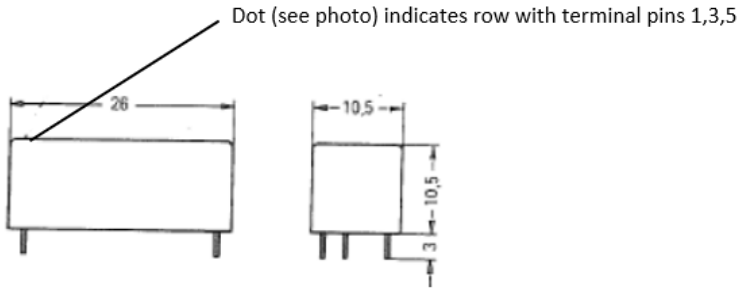
The operating voltage limits U_I and U_{II} depend on temperature and can be calculated by:
UI tu = kI * UI 20°C and UII tu = kII * UII 20°C
tU = ambient temperatur
UItU = minimum voltage at ambient temperature tU
UII tU = maximum voltage at ambient temperature tU
kI and kII = factors

General	A101	A201	A112
Operating voltages		see „Coil table“	
Maximum temperature		100 °C	
Continuous thermal load at 20°C ambient temperature		max. 0,4 W	
Permissible ambient temperature		-25….+70°C	
Operate time		approx. 700 µs	
Release time		approx. 500 µs	
Bounce time		approx. 300 µs	
Maximum switching rate		500 operations/s	
Test voltage			
contact tip/contact tip	250 V AC_{rms}	250 V AC_{rms}	250 V AC_{rms}
contact/winding	1500 V AC_{rms}	1500 V AC_{rms}	750 V AC_{rms}
Electrical life			
at 28 V DC/125 mA		Approx. 10^6 operations	
Mechanical life		Approx. 10^9 operations	

t_U	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
k_I	1.0	1.04	1.07	1.1	1.15	1.18
k_{II}	1.0	0.93	0.86	0.79	0.71	0.62

Reed Relay V23100 -V6 (Continued)

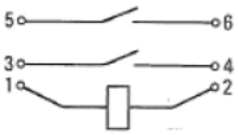
Dimensions



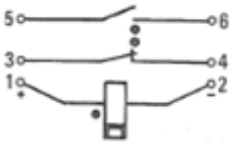
Terminal Assingment
Base terminals
Circuit symbols drawn in release condition. If a positive potencial is applied to coil terminal 1, the relay changes to operate condition

1 make

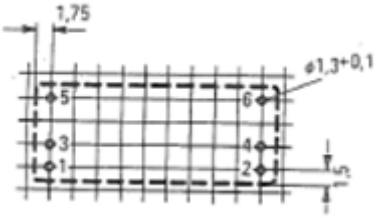
2 makes



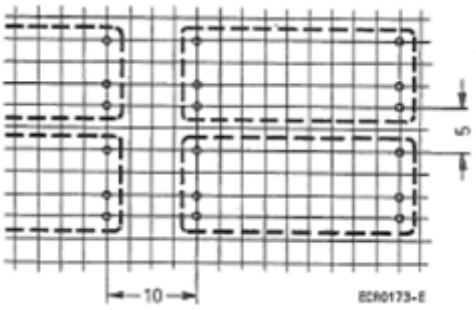
1 make and break



PCB layout
Mounting hole layout
View onto the terminal



Minimum spacing for version with 1 make and 1 contact



Typical product code	**V23100-V6**	**002**	**A101**

Type
V23100-V6 - Reed relay, V23100-V6 series

Coil
004 – 5 VDC
001 – 6 VDC
002 – 12 VDC
003 – 24 VDC

Contact arrangement
A101 – 1 make
A201 – 2 makes
A112 – 1 make and 1 break