V23100-V6★★★

1 or 2 make contacts,
neutral, monostable
or
1 make and 1 break contact,
polarised, monostable

Dust-protected

For printed circuit mounting,
pin arrangement suits 2.5 mm grid
in acc. with DIN 40801 and DIN 40803, fine

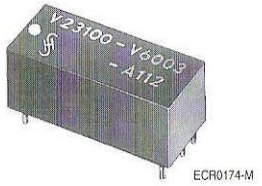
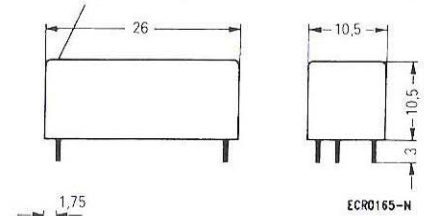


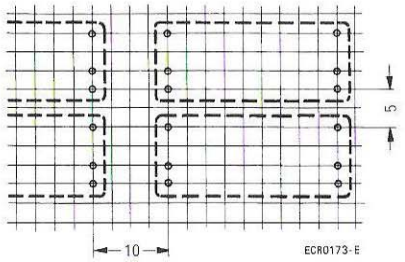
Illustration approx. original size
Approx. weight 15 g

Dot (see photo) indicates row with terminal pins 1, 3, 5

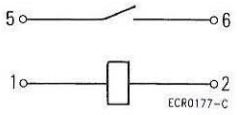


Mounting hole layout
View onto the terminals

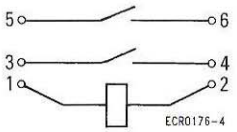
Minimum spacing for version with
1 make and 1 break contact



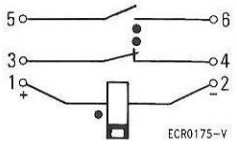
Base terminals
1 make



2 makes



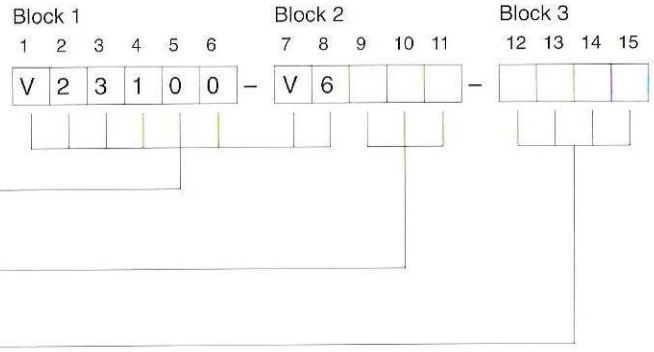
1 make and 1 break[1])



Circuit symbols drawn in release condition.
If a positive potential is applied to coil terminal 1,
the relay changes to operate condition.

[1]) On the printed circuit board the
1 make/1 break contact arrangement
can be connected as 1 changeover.

Ordering code



Ordering example: V23100-V6002-A201
Reed relay V6 for 12 V nominal voltage, with 2 makes

SCS – Preferred standard types

V23100-V6002-A101	V23100-V6002-A112	V23100-V6001-A201
-V6003-A101	-V6003-A112	-V6002-A201
		-V6003-A201

Table 1 Characteristics

Energising side				
Operating voltages	V DC	see table 2		
Maximum temperature	°C	100		
Continuous thermal load at 20 °C ambient temperature	W	max. 0.4		
Contact side				
Ordering code block 3		A101	A201	A112
Contact description		1	1 – 1	1 – 2[1]
Symbols (see also base terminals)				
Maximum switching voltage	V DC	100		
Maximum switching current break make	 A A	 – 0.5	 – 0.5	 0.25 0.5
Maximum power rating	W	10		
Maximum continuous current break make	 A A	 – 0.75	 – 0.75	 0.35 0.75
General				
Permissible ambient temperature	°C	– 25 ... + 70		
Operate time	µs	approx. 700		
Release time	µs	approx. 500		
Bounce time	µs	approx. 300		
Maximum switching rate	operations/s	500		
Test voltage contact tip/contact tip contact/winding	 V AC_{rms} V AC_{rms}	 250 1500	 250 1500	 250 750
Electrical life [2] at 28 V DC/125 mA	 operations	 approx. 10^6		
Mechanical life	operations	approx. 10^9		

[1]) On the printed circuit board the 1make/1break contact arrangement can be connected as 1 changeover.
[2]) The ratings apply to resistive or inductive load with appropriate spark suppression.

Table 2 Coil versions

Nominal voltage	Operating voltage range at 20 °C		Resistance at 20 °C	Coil number Ordering code block 2
	Minimum voltage U_I	Maximum voltage U_{II} *)		
V DC	V DC	V DC	Ω	
5	3.7	10.8	430 ± 43	004
6	4.5	10.8	430 ± 43	001
12	8.4	21.6	1100 ± 110	002
24	16.4	42.5	3860 ± 580	003

The operating voltage limits U_I and U_{II} depend on temperature and can be calculated by:

$U_{I\,tu} = k_I \cdot U_{I\,20\,°C}$ and $U_{II\,tu} = k_{II} \cdot U_{II\,20\,°C}$

t_u = ambient temperature
$U_{I\,tu}$ = minimum voltage at ambient temperature t_u
$U_{II\,tu}$ = maximum voltage at ambient temperature t_u
k_I and k_{II} = factors

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

*) The stated maximum voltage also applies to impulse operation of the 1 make/1 break version.