Miniature Relay W11

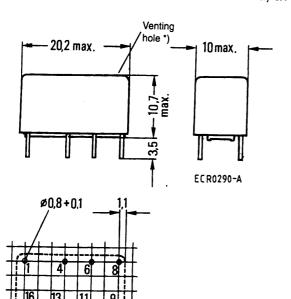
V23102-C0***

2 changeover contacts, bifurcated

Immersion cleanable

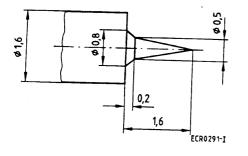
Standard or sensitive

For printed circuit mounting, pin arrangement suits 2.54 mm grid in acc. with DIN 40801 and DIN 40803, average



Mounting hole layout View onto the terminals

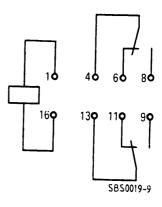
Dimensions of pin



ECR3017-D

Illustration approx. original size Approx. weight 5 g

Base terminals



*) After soldering and cleaning the venting hole is to be punctured by a pin (self-made, dimensions as shown in figure above).

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Ordering code

· ·	Block 1						Block 2					Block 3					
Digit	1	2	3	4	5	6		7	8	9	10	11		12	13	14	15
]-]_				
	L												-				
Basic type number and version of miniature rela V23101-D0 = 1 changeover of V23102-C0 = 2 changeover of Coil number see table 2	cont	act,			ted												
Contact arrangement/materia A201 = 1 changeover, termin B201 = 1 changeover, termin A211 = 2 changeovers	al co						silve gold			um,							

Ordering example: V23101-D0104-B201

Miniature relay W11 with 1 changeover (single), terminal configuration B, coil 6 V nominal voltage, sensitive version, contact material silver/palladium, gold-plated

V23102-C0003-A211

-C0006-A211

-C0007-A211

SCS – Preferred standard types

V23101-D0003-A201 -D0003-B201 -D0006-A201 -D0006-B201 -D0007-A201 -D0007-B201 -D0106-A201 -D0107-B201

Table 1 Characteristics

Contact arrangement		1 changeover	2 changeovers				
Energising side							
Operating voltages	V DC	see table 2					
Power consumption: standard sensitive	mW mW	450 200	550 300				
Maximum temperature	°C	105	105				
Continuous thermal load at 20 °C ambient temperature	W	0.7	0.95				
Thermal resistance	K/W	120	85				
Contact side	· · · · · · · · · · · · · · · · · · ·						
Ordering code block 3							
Single contacts, terminal cor terminal cor	nfiguration A ¹)	A201 B201	-				
Bifurcated contacts		-	A211				
Contact material		silver palladium, gold-plated	silver palladium, gold-plated				
Contact description		21	21 – 21				
Symbols (see also base terminals)							
Maximum switching voltage	V DC . V AC	60 125	150 125				
Maximum switching current	A	2	2				
Maximum power rating DC voltage AC voltage	W VA	30 60	30 60				
Maximum continuous current A		1	1.25				
General			1.20				
Permissible ambient temperature standard version sensitive version	°C °C	- 25 + 55 - 25 + 75	- 30 + 55 - 30 + 75				
Dperate time standard version sensitive version	ms ms	approx. 3 approx. 5	approx. 4 approx. 6				
Release time	ms	approx. 2	approx. 1				
laximum switching rate	ops./s	20	20				
est voltage contact/contact contact tip/contact tip contact/winding	V AC _{rms} V AC _{rms} V AC _{rms}	_ 500 500	1500 1000 1000				
lectrical life DC voltage28 V/1 A AC voltage120 V/0.5 A	operations operations	approx. 3 × 10⁵ approx. 1.5 × 10⁵	approx. 5 × 10⁵ approx. 1 × 10⁵				
lechanical life	operations	approx. 1×10^7	approx. 1×10^7				

¹) Terminal configuration A and B for version with 1 changeover only

Nominal voltage		voltage range 20 °C	Resistance at 20 °C	Coil number		
	Minimum	Maximum		Ordering		
	voltage U _l	voltage U _{ll}		code		
V DC	V DC	V DC	Ω	block 2		
Standard version w	ith 1 changeover		52	51001 2		
5	3.75	7.1	56 ± 6			
6	4.5	8.6	-	003		
12	9.0	17.1		004		
24	18.0	34.3	320 ± 32	006		
Standard version wi		04.0	1280 ± 130	007		
5	3.5	7,5				
6	4.2	9.2	45 ± 4.5	003		
12	8.4	18.7	67 ± 6.7	004		
24	16.8	36.6	280 ± 28	006		
Sensitive version wit		00.0	1070 ± 10.7	007		
5	3.5	12				
6	4.2	14	120 ± 12	103		
12	8.4	29	180 ± 18	104		
24	16.8		700 ± 70	106		
Sensitive version with		58	2800 ± 280	107		
5			T			
6	3.8 4.6	10	82 ± 8.2	103		
12		12	120 ± 12	104		
24	9.2	24	480 ± 48	106		
<u> </u>	18.3	48	1920 ± 192	107		

Table 2 Coil versions

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

 $U_{\text{Itu}} = k_{\text{I}} \cdot U_{\text{I20 °C}}$ and $U_{\text{IItu}} = k_{\text{II}} \cdot U_{\text{II20 °C}}$

 t_u = ambient temperature

 $U_{\rm l\,tu}$ = minimum voltage at ambient temperature $t_{\rm u}$

 $U_{\text{II tu}}$ = maximum voltage at ambient temperature t_{u} k_{I} and k_{II} = factors

00.00			Г				
20 °C	30 °C	40 °C	50 °C	55 °C	60 °C	70 °C	75 °C
10	1.04	1.00					/5 0
1.0	1.04	1.08	1.12	1.14	1.16	1.20	1.22
1.0	0 94	0.07	0.00				
k _{II} 1.0	0.04	0.87	0.80	0.77	0.73	0.64	0.59
	20 °C 1.0 1.0	1.0 1.04	1.0 1.04 1.08	1.0 1.04 1.08 1.12	1.0 1.04 1.08 1.12 1.14	1.0 1.04 1.08 1.12 1.14 1.16	1.0 1.04 1.08 1.12 1.14 1.16 1.20 1.0 0.94 0.87 0.80 0.77 0.77