



The Best Relaytion



Reed Relays





1 and 2 pole relays non-polarized, non-latching

Features

- Direct coil control with TTL-signals possible
- Highly reliable switching
- High switching rates
- Ultrasonic cleanable
- High vibration and shock resistance

Typical applications

- Incircuit tester
- Measuring and control systems
- Telecom equipment
- Alarm and security equipment

CFUS E 111441

European Directive conformance:

Reed relays product conformance according to:

- Directive 2000/53/EC: ELV (End of Life of Vehicles)
- Directive 2002/95/EC: ROHS (Restrictions of the use of certain hazardous substances in electrical and electronic equipment)

Compliance is evidenced by written declaration from all raw material suppliers.

Tyco Electronics AXICOM only has responsibility for the proper processing of these materials.

Confirmation is valid for date codes ≥ 0501

Relay Types

DIP version (flat)

- Standard version
- Electrostatic shield between coil and contact
- Protective diode
- Electrostatic shield and protective dioue
- Contact arrangement: 1 form a (1 normally open contact) or 1 form c (1 changeover contact)

DIP version (high)

- Standard version
- Electrostatic shield between coil and contact
- Protective diode
- Electrostatic shield and protective diode
- Contact arrangement: 2 form a (2 normally open contacts) or 1 form c (1 changeover contact)

SIL version

- Standard version
- Protective diode
- Contact arrangement: 1 form a (1 normally open contact)



Mini SIL version

- Standard version
- Protective diode
- Standard internal magnetic shield
- Contact arrangement: 1 form a (1 normally open contact)

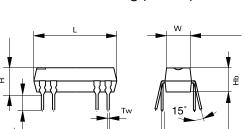




DIP version (flat)



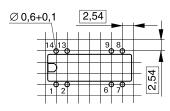
Dimensions drawing (in mm)



Dimensions

	DIP-flat version						
	mm inch						
L	19.3 - 0.2	0.760 - 0.008					
W	6.40 - 0.2	0.252 - 0.008					
Н	5.70 - 0.2	0.224 - 0.008					
Hb	5.10 - 0.2	0.201 - 0.008					
Т	3.20 ± 0.1	0.126 ± 0.004					
Tw	0.50 ± 0.1	0.020 ± 0.004					
Tz	0.25 ± 0.1	0.010 ± 0.004					

Mounting hole layout Top view



Terminal assignment

Relay - top view

1 form a, standard A000



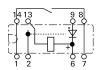
1 form a, with diode



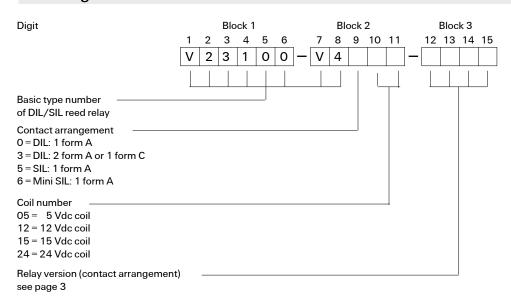
1 form c, standard C000



1 form a, with electrostatic shield and diode



Ordering Information



Ordering example: V23100-V4005-A010

DIL reed relay with 1 make, 5 V nominal voltage, with clamping diode (spark suppression)



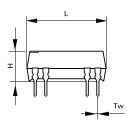
	ata (vaiue	es at 23°C)			Ordering Inf	ormation
Nominal voltage <i>U</i> nom	Operate/set	voltage range	Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number
	Minimum	Maximum					
	voltage U _{min}	voltage U_{\max}					
Vdc	Vdc	Vdc	Vdc	mW	Ω / \pm 10 %		
P version f	lat: 1 form a cont	tact, standard	'		-	1	1
5	3.5	22	0.75	50	500	V23100-V4005-A000	0-1393763-1
12	8.4	33	1.80	144	1′000	V23100-V4012-A000	
15	10.5	44	2.25	112	2′000	V23100-V4015-A000	
24	16.8	44	3.60	288	2′000	V23100-V4024-A000	1-1393763-4
5	3.5	14	0.75	50 144	500	V23100-V4005-A010	
5	3.5	14	0.75	50	500	V23100-V4005-A010	0-1393763-4
12	8.4	25	1.80	144	1'000	V23100-V4012-A010	
15	10.5	47	2.25	112	2′000	V23100-V4015-A010	
24	16.8	47	3.60	288	2′000	V23100-V4024-A010	1-1393763-6
IP version f 5 12 15	3.5 8.4 10.5	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) *	0.75 1.80 2.25	125 288 112	200 500 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000	2-1393763-0 2-1393763-8 3-1393763-4
P version f 5 12	3.5 8.4	13 (14.5) * 22 (23.5) *	0.75 1.80	125 288	200 500	V23100-V4005-C000 V23100-V4012-C000	2-1393763-0 2-1393763-8 3-1393763-4
P version f 5 12 15 24 P version f	3.5 8.4 10.5 16.8	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost	0.75 1.80 2.25 3.60	125 288 112 288	200 500 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000	2-1393763-0 2-1393763-8 3-1393763-4 4-1393763-0
P version f 5 12 15 24 P version f 5	3.5 8.4 10.5 16.8 lat: 1 form a cont	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost	0.75 1.80 2.25 3.60 ratic shield	125 288 112 288	200 500 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000	2-1393763-0 2-1393763-8 3-1393763-4 4-1393763-0 0-1393763-3
1P version f 5 12 15 24 P version f 5 12	3.5 8.4 10.5 16.8 lat: 1 form a cont	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33	0.75 1.80 2.25 3.60 atic shield 0.75 1.80	125 288 112 288 50	200 500 2'000 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001	2-1393763-0 2-1393763-8 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-7
P version f 5 12 15 24 P version f 5 12 15	3.5 8.4 10.5 16.8 lat: 1 form a cont 3.5 8.4 10.5	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33 44	0.75 1.80 2.25 3.60 atic shield 0.75 1.80 2.25	125 288 112 288 50 144 112	200 500 2'000 2'000 500 1'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001 V23100-V4015-A001	2-1393763-0 2-1393763-8 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-7 1-1393763-1
1P version f 5 12 15 24 P version f 5 12	3.5 8.4 10.5 16.8 lat: 1 form a cont	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33	0.75 1.80 2.25 3.60 atic shield 0.75 1.80	125 288 112 288 50	200 500 2'000 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001	2-1393763-0 2-1393763-4 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-7 1-1393763-1
P version f 5 12 15 24 P version f 5 12 15 24	3.5 8.4 10.5 16.8 lat: 1 form a conf 3.5 8.4 10.5 16.8	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33 44 44 44	0.75 1.80 2.25 3.60 atic shield 0.75 1.80 2.25	125 288 112 288 50 144 112 288	200 500 2'000 2'000 500 1'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001 V23100-V4015-A001	2-1393763-0 2-1393763-8 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-7 1-1393763-1
P version f 5 12 15 24 P version f 5 12 15 24	3.5 8.4 10.5 16.8 lat: 1 form a conf 3.5 8.4 10.5 16.8	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33 44 44 44	0.75 1.80 2.25 3.60 atic shield 0.75 1.80 2.25 3.60	125 288 112 288 50 144 112 288	200 500 2'000 2'000 500 1'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001 V23100-V4015-A001	2-1393763-0 2-1393763-4 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-7 1-1393763-5
P version f 5 12 15 24 P version f 5 12 15 24 P version f	3.5 8.4 10.5 16.8	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33 44 44 44 tact, with electrost	0.75 1.80 2.25 3.60 atic shield 0.75 1.80 2.25 3.60 atic shield and diode	125 288 112 288 50 144 112 288	200 500 2'000 2'000 500 1'000 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001 V23100-V4015-A001 V23100-V4024-A001	2-1393763-0 2-1393763-8 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-5 1-1393763-5 0-1393763-3
P version f 5 12 15 24 P version f 5 12 15 24 P version f 5 12 15 24	3.5 8.4 10.5 16.8	tact, standard 13 (14.5) * 22 (23.5) * 44 (14.5) * 44 (49) * tact, with electrost 22 33 44 44 44 tact, with electrost	0.75 1.80 2.25 3.60 atic shield 0.75 1.80 2.25 3.60 atic shield and diode	125 288 112 288 50 144 112 288	200 500 2'000 2'000 500 1'000 2'000 2'000	V23100-V4005-C000 V23100-V4012-C000 V23100-V4015-C000 V23100-V4024-C000 V23100-V4005-A001 V23100-V4012-A001 V23100-V4015-A001 V23100-V4024-A001	2-1393763-0 2-1393763-8 3-1393763-0 4-1393763-0 0-1393763-3 0-1393763-5 1-1393763-5 0-1393763-3 0-1393763-3

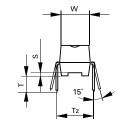


DIP version (high)



Dimensions drawing (in mm)

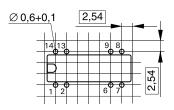




Dimensions

	DIP-flat version						
	mm	inch					
L	19.3 - 0.2	0.760 - 0.008					
W	7.00 - 0.2	0.276 - 0.008					
Н	7.50 - 0.2	0.295 - 0.008					
S	0.50 ± 0.1	0.200 ± 0.004					
Т	3.20 ± 0.1	0.126 ± 0.004					
Tw	0.50 ± 0.1	0.020 ± 0.004					
Tz	0.25 ± 0.1	0.010 ± 0.004					

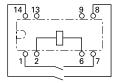
Mounting hole layout Top view



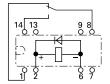
Terminal assignment

Top view

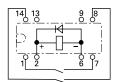
2 form a, standard



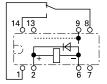
1 form c, with diode



2 form a, with diode



1 form c, with electrostatic shield and diode





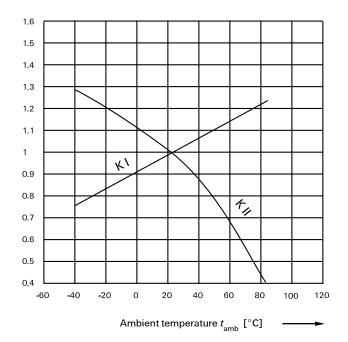
Coil D	ata (value	es at 23°C)		Ordering Information			
Nominal voltage <i>U</i> nom	Operate/set voltage range		Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number	
	Minimum	Maximum						
	voltage U _{min}	voltage U _{max}						
Vdc	Vdc	Vdc	Vdc	mW	Ω / \pm 10 %			
	nigh: 2 form a cor							
5	3.5	14	0.75	125	200	V23100-V4305-B000		
12	8.4	25	1.80	288	500	V23100-V4312-B000		
15 24	10.5 16.8	47 47	2.25 3.60	112 288	2′000 2′000	V23100-V4315-B000 V23100-V4324-B000		
5 12 15 24	3.5 8.4 10.5 16.8	14 25 47 47	0.75 1.80 2.25 3.60	125 288 112 288	200 500 2'000 2'000	V23100-V4305-B010 V23100-V4312-B010 V23100-V4315-B010 V23100-V4324-B010	2-1393763-7 3-1393763-3	
IP version h	nigh: 1 form c cor	ntact, with diode	0.75	125	200	V23100-V4305-C010	2-1393763-2	
12	8.4	23.5	1.80	288	500	V23100-V4312-C010		
15	10.5	14.5	2.25	112	2′000	V23100-V4315-C010		
24	16.8	49	3.60	288	2′000	V23100-V4324-C010		
IP version h	nigh: 1 form c cor	ntact, with diode a	nd electrostatic scre	een				
5	3.5	14.5	0.75	125	200	V23100-V4305-C011	2-1393763-3	
12	8.4	23.5	1.80	288	500	V23100-V4312-C011	3-1393763-1	
15	10.5	14.5	2.25	112	2′000	V23100-V4315-C011	3-1393763-7	
	10.5	14.5	2.23	112	2 000	V23100-V4313-C011	3-1393/03-/	

 $U_{\rm l}$ = Minimum voltage at 23° C after pre-energizing with nominal voltage without contact current $U_{\rm ll}$ = Maximum continous voltage at 23°

The operating voltage limits $U_{\rm I}$ and $U_{\rm II}$ depend on the temperature according to the formula:

 $\begin{array}{ll} \textbf{$U_{\rm I\,tamb}$} = & \textbf{$K_{\rm I}$} \cdot \textbf{$U_{\rm I\,23°\,C}$} \\ \textbf{$u_{\rm II\,tamb}$} = & \textbf{$K_{\rm II}$} \cdot \textbf{$U_{\rm II\,23°\,C}$} \\ \textbf{$t_{\rm amb}$} = & \textbf{$Ambient temperature} \\ \textbf{$U_{\rm I\,tamb}$} = & \textbf{$Minimum\ voltage\ at\ ambient\ temperature,\ t_{amb}$} \\ \textbf{$U_{\rm II\,tamb}$} = & \textbf{$Maximum\ voltage\ at\ ambient\ temperature,\ t_{amb}$} \end{array}$

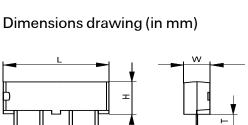
= Factors (dependent on temperature), see diagram





SIL version

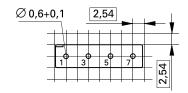




Dimensions

		DIP-flat version							
		mm	inch						
-									
	L	19.8 - 0.2	0.780 - 0.008						
	W	5.08 - 0.2	0.200 - 0.008						
	Н	7.80 - 0.2	0.307 - 0.008						
	Т	3.50 ± 0.2	0.138 ± 0.008						
	Tw	0.60 ± 0.1	0.024 ± 0.004						
	Tz	0.25 ± 0.1	0.010 ± 0.004						

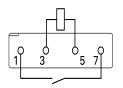
Mounting hole layout Top view



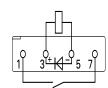
Terminal assignment

Top view

1 form a, standard



1 form a, with diode



Coil Data (values at 23°C) Ordering Information								
Nominal voltage <i>U</i> nom	Operate/set v	oltage range	Release/ reset voltage Minimum	Coil power	Coil Resistance	Relay code	Tyco part number	
	Minimum Maximum voltage U_{\min} voltage U_{\max}							
Vdc	Vdc	Vdc	Vdc	mW	Ω / \pm 10 %			

SIL version: 1 form a contact

5	3.5	22	0.75	50	500	V23100-V4505-A000	4-1393763-4
12	8.4	33	1.80	144	1′000	V23100-V4512-A000	4-1393763-7
15	10.5	44	2.25	112	2′000	V23100-V4515-A000	4-1393763-9
24	16.8	44	3.60	288	2′000	V23100-V4524-A000	5-1393763-1

SIL version: 1 form a contact with diode

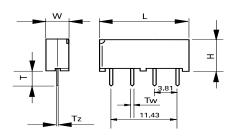
5	3.5	22	0.75	50	500	V23100-V4505-A010	4-1393763-5
12	8.4	33	1.80	144	1′000	V23100-V4512-A010	4-1393763-8
15	10.5	44	2.25	112	2′000	V23100-V4515-A010	5-1393763-0
24	16.8	44	3.60	288	2′000	V23100-V4524-A010	5-1393763-2



Mini SIL version



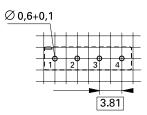
Dimensions drawing (in mm)



Dimensions

	Mini SIL version						
	mm	inch					
L	15.2 - 0.2	0.780 - 0.008					
W	3.8 - 0.2	0.200 - 0.008					
Н	6.8 - 0.2	0.307 - 0.008					
Tw	0.50 ± 0.1	0.024 ± 0.004					
Tz	0.25 ± 0.1	0.010 ± 0.004					

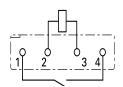
Mounting hole layout Top view



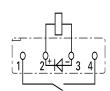
Terminal assignment

Relay-top view

1 form A







Coil D	ata (value	s at 23°C		Ordering Information			
Nominal voltage <i>U</i> nom	Operate/set v	Operate/set voltage range Minimum Maximum voltage U_{min} voltage U_{max}		Coil power	Coil Resistance	Relay code	Tyco part number
Vdc	Vdc	Vdc	Vdc	mW	Ω/±10%		

SIL version: 1 form a contact

5	3.5	13.6	0.75	50	500	V23100-V4605-A000 0-1422026-2
12	8.4	216	1.8	205	700	V23100-V4612-A000 0-1422026-3

SIL version: 1 form a contact with diode

5	3.5	13.6	0.75	50	500	V23100-V4605-A010	0-1422026-5
12	8.4	21.6	1.8	205	700	V23100-V4612-A010	0-1422026-6



General data

Type of relay	DIP version		SIL Version	Mini SIL Version
Type of contact/s	1 form a 2 form a	1 form c	1 form a	1 form a
Maximum operate time (including bounce)	0.5 ms	0.7 ms	0.5 ms	0.5 ms
Maximum release time (including bounce)	0.1 ms	1.0 ms	0.1 ms	0.1 ms
Maximum switching load without load	650 operations/s 500 operations/s	150 operations/s	650 operations/s	650 operations/s
Operating temperature range	-40°+70° C, +85 ° C on request			
Storage temperature	-40 ° C + 95 ° C			
Thermal resistance	Approx. 75 K / W			
Maximum permissible coil temperature	105° C			
Vibration resistance (function)	30 G	30 G	30 G	30 G
	10 to 2000 Hz	50 to 2000 Hz	10 to 2000 Hz	10 to 2000 Hz
Shock resistance, half sinus, 11 ms	150 G	50 G	150 G	50 G
Degree of protection	immersion cleanable, IP 67			
Typical mechanical endurance	10 ⁸ operations	10 ⁸ operations	10 ⁸ operations	10 ⁸ operations
Mounting position	any			
Resistance to soldering heat	10 s/ 260 ° C			

Type of relay		DIP ve	DIP version		SIL version	Mini SIL Version
Type of contact/s		1 form a	2 form a	1 form c	1 form a	1 form a
Contact material		Gold covered with Rhodium				
Maximum continuous cu	rrent	1 A 1.2 A		1.2 A	1 A	1 A
Maximum switching curi	ent	0.5 A		0.25 A	0.5 A	0.5 A
Maximum switching volt	age					
at nominal voltage:	5 Vdc	200 V	/dc / Vac peak	175 Vdc	200 Vdc / Vac	200 Vdc / Vac pea
12-24 Vdc		200 \	/dc / Vac peak	175 Vdc peak	200 Vdc / Vac	200 Vdc / Vac pea
Maximum switching cap	acity					
DC voltage		10 W	1	3 W	10 W	10 W
AC voltage		10 V	A	3 VA	10 VA	10 VA
Thermoelectric potential		< 100 µV				
Initial contact resistance	/					
measuring condition:		<150 mΩ				
Electrical endurance						
12 V / 10 mA		5 x 10 ⁷				
24 V / 400 mA		5 x 10 ⁶				

Insulation				
Insulation resistance at 500 VDC	contact coil > $10^{11} \Omega$			
Dielectric test voltage (1 min)				
contact / coil	1500 Vdc	1500 Vdc	1500 Vdc	1500 Vdc
contact / contact	250 Vdc	200 Vdc	250 Vdc	225 Vdc

High Frequency Data	
Capacitance	
between coil and contacts	max. 2 pF
between adjacent contact sets	max. 1 pF
between open contacts	max. 1 pF

IM Relays

 4^{th} generation's lim line – low profile polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 1.5... 24 V, coil power consumption of 140... 200 mW, latching relays with 1 coil 100 mW. The IM relay is available as through hole and surface mount type (J-Legs and Gull Wings) and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV $^-$ 2 / 10 μ s) and FCC part 68 (1,5 kV $^-$ 10 / 160 μ s). The IM relay is CECC/IECQ approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. 10 x 6 mm board space and 5.65 mm height.

P2 Relays

 3^{rd} generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 24 V, coil power consumption 140 mW, latching relays with 1 coil 70 mW. The P2 Relay is available as through hole or surface mount type and capable to switch currents up to 5 A. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV $^-$ 2 / 10 μ s) and FCC part 68 (1,5 kV $^-$ 10 / 160 μ s). Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

FX Relays

 3^{rd} generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 3 ... 48 V, coil power consumption of 80 ... 260 mW for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW. The FX2 relay is available as through hole type and capable to switch loads up to 60 W/62,5 VA. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV $^{-}$ 2 / 10 μ s) and FCC part 68 (1,5 kV $^{-}$ 10 / 160 μ s). The FX2 is CECC/IECO approved and certified in accordance with IEC/EN 60950 and UL 1950. Dimensions approx. 15 x 7,5 mm board space and 10,7 mm height.

FT2 / FU2 Relays

 3^{rd} generation non polarized, non latching 2 c/o telecom relay with bifurcated contacts. Nominal voltage range from 3 ... 48 V, coil power consumption 200 ... 300 mW. Most sensitive 48 V relay. Available as through hole and surface mount type. Dielectric strength fulfills the Bellcore requirements according GR 1089 (2,5 kV - 2 / 10 μs) and FCC part 68 (1,5 kV - 10 / 160 μs). The FT2/FU2 is CECC/IECQ approved and certified in accordance with IEC/EN 60950 and UL1950. Dimensions approx. 15 x 7,5 mm board space and 10 mm height.

FP2 Relays

 3^{rd} generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 48 V, coil power consumption of 80 ... 260 mW for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW.. The FP1 Relay is available as through hole type and capable to switch loads up to $30\,W/62.5\,VA$. Dielectric strength fulfills FCC part 68 (1,5 kV – 10 / $160\,\mu s$). The FP2 is CECC/IECQ approved. Dimensions approx. $14\,x\,9$ mm board space and 5 mm height.

MT2 / MT4

 2^{nd} generation non polarized, non latching 2 c/o and 4 c/o telecom and signal relay with bifurcated contacts. Nominal voltage range from 4.5 ... 48 V, coil power consumption 150/200/300/400 and 550 mW, and 300 mW (MT4). Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV $^-$ 10 / 160 μs) for both and the Bellcore requirements according GR 1089 (2,5 kV $^-$ 2 / 10 μs) the MT4 only.

Dimensions MT2 approx. $20 \times 10 \text{ mm}$ board space and 11 mm height, MT4 approx. $20 \times 15 \text{ mm}$ board space and 11 mm height.

D2n Relays

 2^{nd} generation non polarized 2 c/o relay for telecom and various other applications. Nominal voltage range from 3 ... 48 V, coil power consumption from 150 500 mW. The D2n relay is capable to switch currents up to 3 A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV - 10 / 160 μ s). Dimensions approx. 20 x10 mm board space and 11,5 mm height.

P1 Relays

Extremely sensitive, polarized 1 c/o relay with bifurcated contacts for a wide range of applications, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from 3 ... 24 V, coil power consumption 65 mW, latching relays with 1 coil 30 mW. The P1 relay is available as through hole or surface mount type and capable to switch currents up to 1 A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 kV - 10 / 160 μ s). Dimensions approx. 13 x 7,6 mm board space and 7 mm height for THT or 8 mm height for SMT version.

W11 Relays

Low cost, non polarized 1 c/o relay for various applications. Nominal voltage range from 3 ... 24 V, coil power consumption 450 mW, sensitive versions 200 mW. The W11 relay is capable to switch currents up to 3 A. Dielectric strength 1000 Vrms. Dimensions approx. 15,6 x 10,6 mm board space and 11,5 mm height.

Reed Relays

High sensitive, non polarized relay for telecom and various other applications, available with 1 n/o, 2 n/o or 1c/o contacts. Nominal voltage range from 5 ... 24 V, coil power consumption 50...280 mW for 1 n/o and 125 ... 280 mW for 2 n/o or 1 c/o versions. Reedrelays are available in DIP or SIL housing and capable to switch currents up to 0,5 A. Integrated diode and/or electrostatic shield optional. Dielectric strength 1500 Vdc. Dimensions approx. 19,3 x 7 mm board space and 5 ... 7,5 mm height for DIP or 19,8 x 5 mm board space and 7,8 mm height for SIL version.

Cradle Relays

Extremely reliable and mature relay family of 1st generation for various signal switching applications. Available as non polarized, polarized / latching and relay with AC coil. The benefit is the possibility of combining various contact sets from 1 up to 6 poles, single and bifurcated contacts, different contact materials with a coil voltage range from 1,5 Vdc to 220 Vac. Cradle relays are available as dust protected and hermetically sealed versions, with plug in or solder terminals and are capable to switch currents up to 5 A. Forcibly guided (linked) contact sets optional. Dielectric strength 500 Vrms. Dimensions from approx. 19 x 24 to 19x35 mm board space and 30 mm height.

Other Relays

We offer a variety of different relay families for maintenance and replacement purposes. These relays are up to 60 years old now, such as Card Relay SN (V23030 / V23031 series), Small General Purpose Relay (V23006 series), Small Polarized Relay (V23063 ... V23067 and V23163 ... V23167 series). Accessories like sockets, hold down springs, etc. optional.

HF3 Relay

High performance low cost RF relay with excellent RF characteristics. Available with an impedance of 50 and 75 Ohm. Suitable for frequencies up to 3 GHz. Actually smallest RF relay available combining small size, excellent RF performance and SMD solderability. Available as non latching or latching relay with 1 or 2 coils and a nominal coil voltage range from 3 ... 24 V, coil power consumption 140 mW, latching relays with 1 coil 70 mW. Dimensions $14.6 \times 7.3 \times 10$ mm.





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