imall

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.

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General Purpose Relays PCB Relays

E0153-C

. AL us

Power PCB Relay U/UB

- 1 pole 7A, mono or bistable
- 1 form C (CO) or 1 form A (NO) or 1 form B (NC) contact
- Bistable and DC version
- Wash tight version
- Version for 10A on request



Typical applications Heating control, installation, battery powered equipment

Approvals

UL E214024

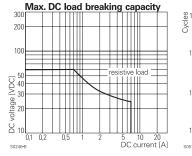
Technical data of approved types on request

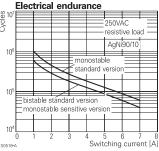
•			.		• •••			
Contac	ct Data		Standard		Sensitive			
Contact	arrangement		1	form C (CO)	or			
			1	form A (NO)	or			
				1 form B (NC)			
Rated vo	ltage			250VAC				
Max. swi	tching voltage			400VAC				
Rated cu	irrent		7A	7A	5A			
Limiting I	making current,							
max 4	s, duty factor 10	1%	12A	12A	12A			
Breaking	capacity max.		1750VA	1750VA	1250VA			
Contact	material		AgNi 90/10	AgNi 90/10	AgNi 90/10			
Frequence	cy of operation,							
with/v	vithout load		600/18000h ⁻¹					
Operate/	release time typ.		5/ 3 ms	-	7/3 ms			
Set/reset	t time typ.		-	5/ 3 ms	-			
Bounce time typ., form A/form B			2/10ms	2/10ms	2/10ms			
Contact	ratings							
Туре	Contact	Load			Cycles			
111 500								

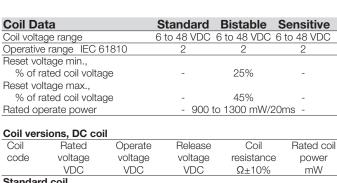
UL 508			
U/UB	C/A/B		
	(CO/NO/NC)	7A, 250VAC,general purpose, 40°C	6.000

Mechanical endurance, DC coil

>20x10⁶ operations







code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
Standard	d coil				
003	6	4.2	0.6	80	450
005	12	8.4	1.2	320	450
007	24	16.8	2.4	1280	450
800	48	33.6	4.8	3800	606
Sensitive	e coil				
103	6	4.4	0.6	110	327
105	12	8.8	1.2	440	327
107	24	17.5	2.4	1780	324
108	48	35.0	4.8	4000	576

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

_	Coil o	peratin	ig rang	je D	С		
Coil voltage (U/U _{rtd}) 9'1 9'1							
_) 2,0				sitive			
0,1%	 standa versior 		vers	sion I			
2 1,6					-		_
රී _{1,4}		_	/		_		
1.0				\square			
1,2			commen				
1,0	U _{rtd} —		vo l tage ra	ange-			_
0,8			_		_		_
0,6							
	0 +2				+8		+100
S0247-0	2		Ambient	: tem	pera	iture	[°C]

Coil versions, bistable 1 coil

Coil

Coil	Rated	Set	Reset	Coil	Rated coil
code	voltage	voltage voltage resistance		resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	6	4.7	1.5	33	1091
005	12	9.4	3.0	119	1210
007	24	18.7	6.0	475	1213
008	48	37.4	12.0	1750	1317

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

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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Power PCB Relay U/UB (Continued)

Insulation Data	2kV _{rms}	4kV _{rms}
	Version	Version
	V23148-*0***	V23148-*1***
Initial dielectric strength		
between open contacts	1000V _{rms}	1000V _{rms}
between contact and coil	2000V _{rms}	4000V _{rms}
Clearance/creepage		
between contact and coil	≥2.5/2.5mm	≥3.5/3.5mm
Material group of insulation parts	≥IIIa	≥Illa
material group of Insulation parts	≥illa	≥IIIa

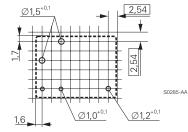
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the Product Compliance Support Center					
www.te.com/customersupport/rohssupportcent					
Ambient temperature	-25 to +70°C				
Category of environmental protection					
IEC 61810	RTIII - wash tight				
Vibration resistance (functional), form A/form	B 10/10g				
Shock resistance (functional), form A/form B	10/10g				
Terminal type	PCB-THT				
Weight	9.5 g				
Resistance to soldering heat THT					
IEC 60068-2-20, wash tight version	260°C/5 s				
Packaging unit	25 pcs.				

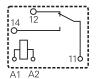
PCB layout / terminal assignment

Bottom view on solder pins

Monostable and bistable 1 coil



Form C contact (CO)



S0285-AB



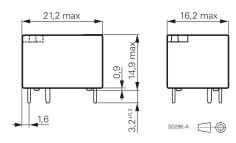
S0285-AC

Form B contact (NC)



S0285-AD

Dimensions





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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.





Power PCB Relay U/UB (Continued)

Produ	uct	code structure			Typical product code	V23148	-A	0	0	07	-A	101
Туре												
	V23	3148 Power PCB Relay U/UB										
Versio	n											
	Α	Monostable (Miniature power rela	yU)									
	В	Bistable (Miniature power relay UI	, B, re	emanence version)								
Dielec	tric	strength coil-contact		· · · · · ·				_				
	0	2kV _{rms}	1	4kV _{rms}								
Versio	n								1			
		Monostable		Bistable								
	0	Standard	0	Standard								
	1	Sensitive										
Coil										-		
	03	6VDC	07	24VDC								
	05	12VDC	08	48VDC								
Conta	ct d	configuration										
		1 form C contact (1 CO)	С	1 form B contact (1	NC)							
	В	1 form A contact (1 NO)		,								
Conta	ct m	naterial										,
	101	AgNi10										
Other ty		on request										

Product code	Version	Dielectric	Version	Arrangement	Part number
V23148-A0003-A101	Monostable	2000 V _{rms}	Standard	1 form C (CO)	1393203-4
V23148-A0003-B101	relay ,U'	contact-coil		1 form A (NO)	1393203-5
V23148-A0005-A101	AgNi10			1 form C (CO)	1393203-8
V23148-A0005-B101				1 form A (NO)	1393203-9
V23148-A0007-A101				1 form C (CO)	1-1393203-1
V23148-A0007-B101				1 form A (NO)	1-1393203-2
V23148-A0008-A101				1 form C (CO)	1-1393203-4
V23148-A0105-A101			Sensitive		2-1393203-1
V23148-A0107-A101					2-1393203-4
V23148-A1005-A101		4000 V _{rms}	Standard		2-1393203-7
V23148-A1007-A101		contact-coil			2-1393203-8
V23148-A1105-A101			Sensitive		2-1393203-9
V23148-A1107-A101					3-1393203-1
V23148-B0003-A101	Bistable	2000 V _{rms}	Standard		1393204-4
V23148-B0005-A101	relay ,UB'	contact-coil			1393204-7
V23148-B0007-A101	AgNi10				1-1393204-0
V23148-B0008-A101					1-1393204-3

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