

Power PCB Relay U/UB

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



F0153-C

Applications

Heating control, installation, battery powered equipment

Approvals

us E194065
 Technical data of approved types on request

Contact data

Contact configuration	1 CO, 1 NO or 1 NC
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 V
Rated current	standard and bistable: 7 A sensitive: 5 A
Maximum breaking capacity AC	standard and bistable: 1750 VA sensitive: 1250 VA
Limiting making capacity, max 4 s, duty factor 10%	12 A
Contact material	AgNi 90/10
Rated frequency of operation with / without load	10/300 min ⁻¹
Operate- / reset time	5/3 ms
Operate- / release time	standard: typ. 5/3 ms sensitive: typ. 7/3 ms
Bounce time NO / NC contact	typ. 2/10 ms

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
UL 508				
all	CO/NO/NC	7 A, 250 VAC, general purpose,	40°C	6.000

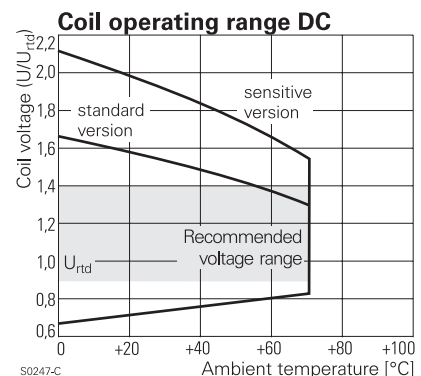
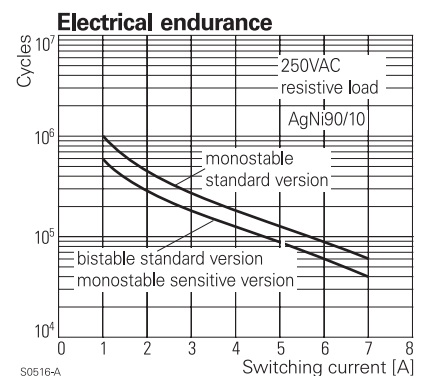
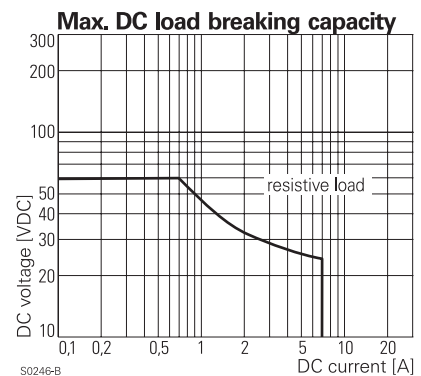
Coil data

	monostable	sensitive
Rated coil voltage range DC coil	6 ... 48 VDC	
Operative range to IEC 61810	2	

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
standard coil					
003	6	4.2	0.6	80 ± 10%	450
005	12	8.4	1.2	320 ± 10%	450
007	24	16.8	2.4	1280 ± 10%	450
008	48	33.6	4.8	3800 ± 10%	606
sensitive coil					
103	6	4.4	0.6	110 ± 10%	327
105	12	8.8	1.2	440 ± 10%	327
107	24	17.5	2.4	1780 ± 10%	324
108	48	35.0	4.8	4000 ± 10%	576

All figures are given for coil without preenergization, at ambient temperature +23°C
 Other coil voltages on request



Power PCB Relay U/UB (Continued)

Coil data		bistable
Rated coil voltage range	6 ... 48 VDC	
Rated operate power	900...1300 mW / 20 ms	
Reset voltage min., % of rated coil voltage	25%	
Reset voltage max., % of rated coil voltage	45%	

Coil versions, bistable

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

All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Insulation

Dielectric strength coil-contact circuit	2000 V _{rms} version V23148-*0***
	4000 V _{rms} version V23148-*1***
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 2.5 / 2.5 mm version V23148-*0***
	≥ 3.5 / 3.5 mm version V23148-*1***
Material group of insulation parts	≥ IIIa
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	basic
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	230 / 400 V
Overvoltage category	II

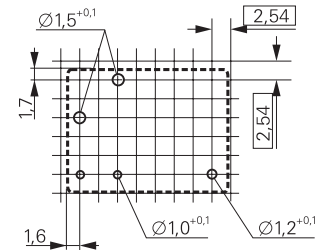
Other data

Mechanical endurance	20x10 ⁶ cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per produc date code 0402
Environment	
Ambient temperature range	-25...+70°C
Vibration resistance (function) NO / NC contact	10 / 10 g
Shock resistance (function) NO / NC contact	10 / 10 g
Category of protection	RT III - wash tight
Processing	
Resistance to soldering heat wash-tight version	260°C / 5 s
Relay weight	9.5 g
Packaging unit	25 pcs

PCB layout / terminal assignment

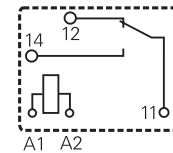
Bottom view on solder pins

Monostable and bistable 1 coil



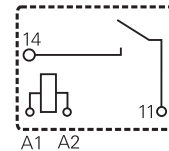
S0285-AA

CO contact



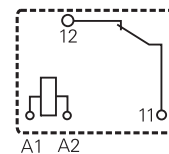
S0285-AB

NO contact



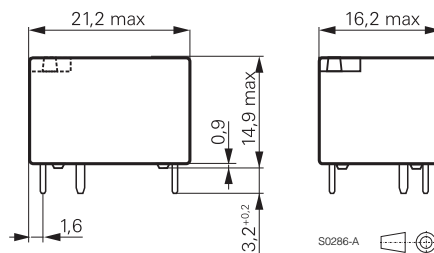
S0285-AC

NC contact



S0285-AD

Dimensions



S0286-A

