

Miniature Power PCB Relay MSR

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
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[Http://www.100y.com.tw](http://www.100y.com.tw)

- 1 pole 8 / 10 A, 1CO or 1NO contact
- High inrush currents with AgSnO contacts (TV4 = 65 A)
- 4 kV/8 mm coil-contact
- Reinforced insulation (protection class II)
- Ambient temperature up to 85°C at 8 A
- Plastic materials according to IEC60335-1 (domestic appliances)
- RoHS compliant (Directive 2002 / 95 / EC) as per product date code 0404

Applications

HVAC, interface technology, power supplies, TV-/Monitor control, computer-/communication technology, domestic appliances, Hi-Fi products, timers



F0143-C

Approvals

VDE REG.-Nr. 3919, **CE** us E214024
Technical data of approved types on request

Contact data

Contact configuration	1CO or 1NO	
Contact set	single contact	
Type of interruption	micro disconnection	
Rated current	versions A,B:	8 A
	versions C,D:	10 A
Rated voltage / max.switching voltage AC	240/400 VAC	
Maximum breaking capacity AC	2000 VA	
Limiting making capacity, max 20 ms	A302: 65 A	
max 4 s, duty factor 10%	15 A	15 A
Contact material	AgSnO ₂ , AgCdO	AgNiO ₁₅ *
Mechanical endurance	10x10 ⁶ cycles	
Rated frequency of operation with / without load	6 / 1200 min ⁻¹	
*not recommended for AC loads with arcing (CC2 according EN61810-2)		

Contact ratings

Type	Load	Cycles
V23061-A1***-A302	8 A, 250 VAC, resistive load, 85°C, 1 mm mounting distance, 6 cycles min ⁻¹ , 50% duty factor, EN61810-1	100x10 ³
V23061-C2***-A302	10 A, 250 VAC, resistive load, 85°C, 0 mm mounting distance, 6 cycles min ⁻¹ , 50% duty factor, EN61810-1	10x10 ³
V23061-C2***-A302	5 A, 250 VAC, resistive load, 105°C, 0 mm mounting distance, 6 cycles min ⁻¹ , 50% duty factor, EN61810-1	100x10 ³
V23061-A1***-A302	TV-4 Tungsten, 120 VAC, UL508	25x10 ³
V23061-*****-A30*	240 VAC, A300, Pilot duty, UL508	6x10 ³

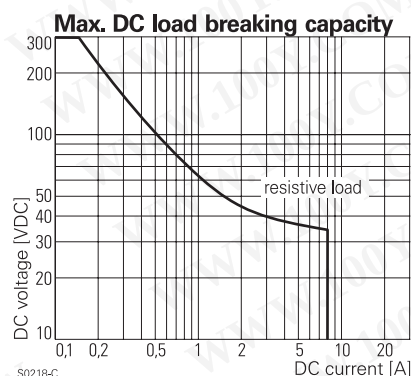
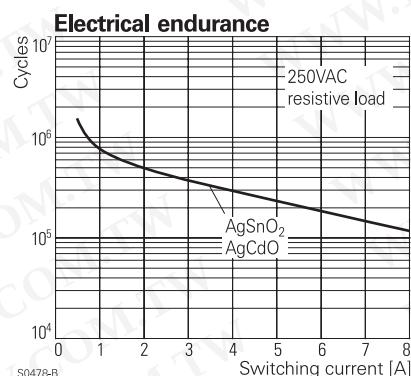
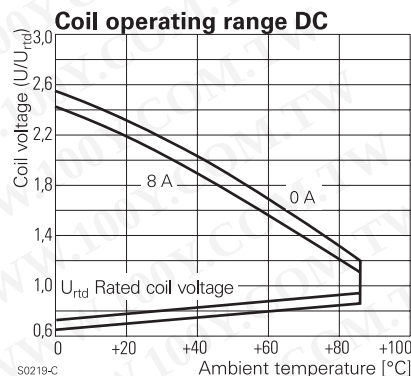
Coil data

Rated coil voltage range DC coil	3...60 VDC
Coil power DC coil	typ. 220 mW
Operative range	2
Coil insulation system according UL1446	Class A, Class F

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
001	3	2.1	0.3	40±10%	225
002	5	3.4	0.5	118±10%	212
003	6	4.1	0.6	165±10%	218
004	9	6.1	0.9	364±10%	223
005	12	8.2	1.2	652±10%	221
007	24	16.3	2.4	2270±10%	254
009	48	32.6	4.8	8790±10%	262
010	60	40.8	6.0	15265±15%	236

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



Miniature Power PCB Relay MSR (Continued)

Insulation	CO contact	NO contact
Dielectric strength coil-contact circuit		4000 V _{rms}
open contact circuit		1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm	≥ 8 / 8 mm
Material group of insulation parts	IIIb	IIIb
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	reinforced	reinforced
open contact circuit	functional	functional
Rated insulation voltage	250 V	250 V
Pollution degree	3	2
Rated voltage system	230 V	400 V
Overvoltage category	III	III

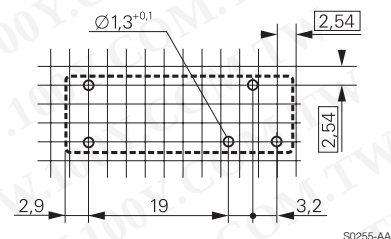
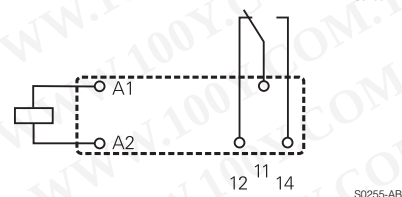
Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0404
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60335-1	> 850 °C
GWIT to IEC 60335-1	> 775 °C
Ambient temperature range	-40...+85°C
Operate- / release time	6 / 2,5 ms
Bounce time NO / NC contact	0,5 / 4 ms
Vibration resistance (function) NO / NC contact	10 / 4 g
Shock resistance (function) NO / NC contact	20 / 5 g
Shock resistance (destruction)	100 g
Category of protection	RTII-flux proof; RTIII- wash tight
Mounting	pcb
Mounting position	any
Minimum mounting distance	0 mm
Resistance to soldering heat flux-proof version	270°C / 10 s
wash-tight version	260°C / 5s
Relay weight	11 g
Packaging unit	20 / 1000 pcs

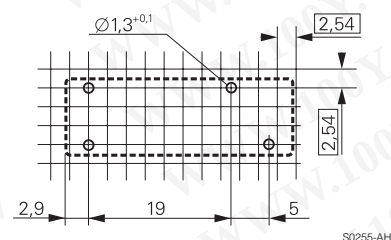
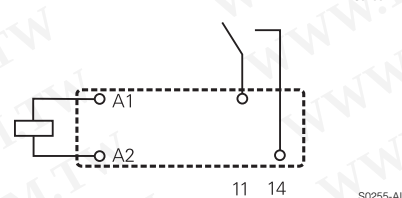
PCB layout / terminal assignment

Bottom view on solder pins

1 CO contact, 3,2 mm

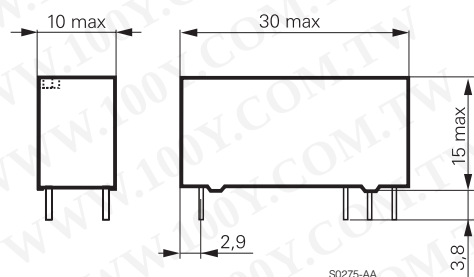


1 NO contact, 5 mm

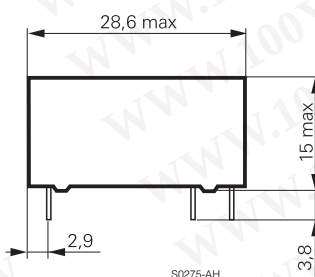


Dimensions

1 CO contact, 3,2 mm



1 NO contact, 5 mm



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