

# Miniature Power Relay MSR

1 pole 8 A



- 1 C/O or 1 N/O contact
- High inrush currents with AgSnO contacts (TV4 = 65 A)
- 4 kV/8 mm coil-contact
- Protection class II
- Ambient temperature up to 85°C at 8 A

## Applications

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

F0143-A

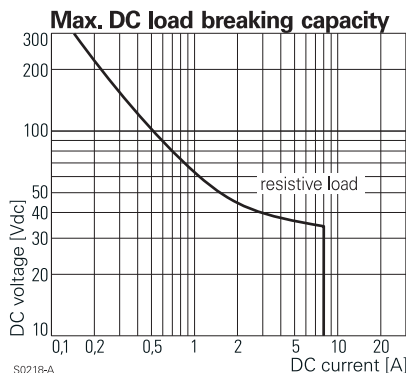
Technical data of approved types on request

### Contact data

Configuration	1 C/O contact or 1 N/O contact
Type of contact	single contact
Rated current	8 A
Rated voltage / max. breaking voltage	250 Vac / 380 Vac
Rated breaking capacity	2000 VA
Make current (max. 4 s at duty cycle 10%)	15 A
Contact material	AgSnO <sub>2</sub> , AgCdO, AgNi 0.15

### Contact life

Load	Operations
8 A, 220 Vac, resistive	approx. 1x10 <sup>5</sup>



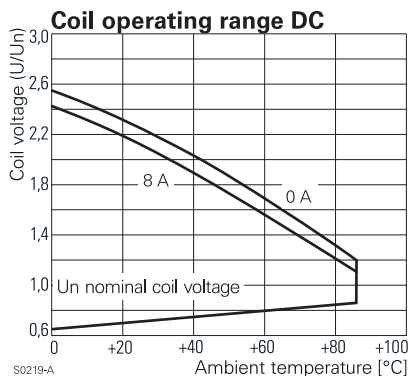
### Coil data

Nominal voltage	3...60 Vdc
Nominal coil power	approx. 220 mW
Operate category	2 / b

### Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
002	5	3.4	0.5	12.5	118±10%	42.4
003	6	4.1	0.6	15.0	165±10%	36.4
005	12	8.2	1.2	30.0	650±10%	18.5
007	24	16.3	2.4	56.0	2270±10%	10.6
009	48	32.6	4.8	110.0	8790±10%	5.5
010	60	40.8	6.0	142.0	15265±15%	4.0

All figures are given for coil without preenergization, at ambient temperature +20°C  
 Other coil voltages on request



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## Insulation

Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage		8 mm
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250, B / 380
Tracking resistance		CTI 250

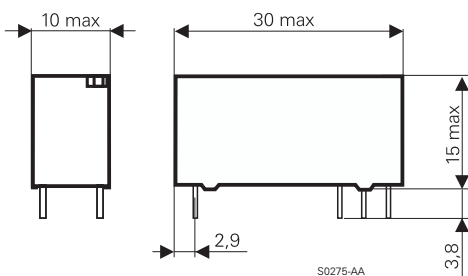
## Other data

Flammability class UL	V-0
Ambient temperature	-40...+85 °C
Mechanical life	approx. 20x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 20 s <sup>-1</sup>
Operate- / release time	6 / 2.5 ms
Protection category	IP67
Relay weight	11 g
Packaging unit	20 / 1000 pcs.

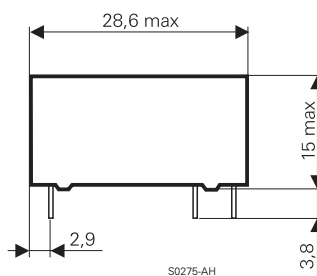
## Dimensions

Dimensions in mm

1 C/O contact, 3.2 mm



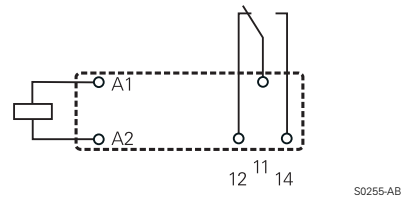
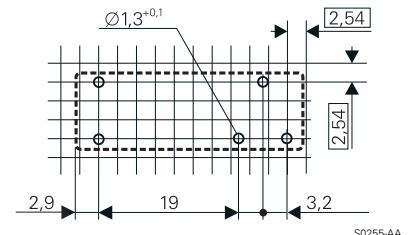
1 N/O contact, 5 mm



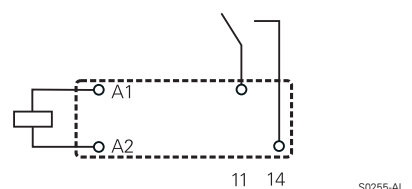
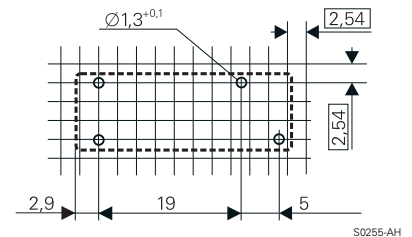
## PCB layout / terminal assignment

View on solder pins  
Dimensions in mm

1 C/O contact, 3.2 mm



1 N/O contact, 5 mm



## Ordering key

V 2 3 0 6 1 - 1 - A

Type

Version

**A** 1 N/O contact

**B** 1 C/O contact

Version

**1** standard, washable

Coil

Coil code: please refer to coil versions table

Contact version

**A** standard

Contact material

**3** AgSnO<sub>2</sub>

**5** AgNi 0,15, gold flashed

**4** AgCdO

**6** AgCdO, gold plated

Contact configuration

**01** 1 C/O contact

**02** 1 N/O contact

Other types on request