

NAIS**HIGHLY RELIABLE
MINIATURE
DIP RELAYS****DR-SDS relay**

UL File No.: E48393
CSA File No.: LR45064-2

- High breakdown (1500 V) and surge (1500 V) voltage between contacts and coil
- High sensitivity
- High contact pressure

Specifications**Contacts**

Arrangement	1 Form C
Contact material	PdNi Au layer
Initial contact resistance, (max.) (Measured by voltage drop 6 V DC 1 A)	100 mΩ
Rating (resistive)	
Max. switching power	33 VA, 20 W
Max. switching voltage	110 V AC / 30 V DC
Max. switching current	0.3 AC / 1 A DC
Min. switching capacity	10 mV / 0.1 mA
Electrical life (6 V / 100 mA)	10 ⁸
(24 V / 1 A)	10 ⁷
(0.3 A / 110 V AC)	10 ⁶
Mechanical life	10 ⁹

Coil

Nominal/minimum monostable	5 – 24 V DC	65 ... 130 mW
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Characteristics

Max. operating speed	100 cpm (mechanical)
Operate time	approx. 2 ms
Release time (w/o diode)	approx. 0.6 ms
Contact bounce	1 ms
Initial breakdown voltage	
Between open contacts	750 Vrms
Between contacts and coil	1500 Vrms
Between live parts and ground	1000 Vrms
Initial insulation resistance	min. 1000 MΩ at 500 V DC
Surge voltage between contacts and coil (1.2/50μs)	1500
Ambient temperature	-40 °C to +70 °C
Shock resistance	more than 100 g
Vibration resistance	40 g, 10 to 200 Hz
Unit weight	approx. 6 g

Note: All specifications are based on the condition 25°C, 50% R.H. unless otherwise noted.

TYPICAL APPLICATIONS

- Telecommunications equipment
- Machine tools
- Industrial robots
- Optical instruments
- Business machines
- Optical instruments
- Medical equipment
- Detectors
- Alarm devices

ORDERING INFORMATION

Ex. DR — 0 — 24V — SDS

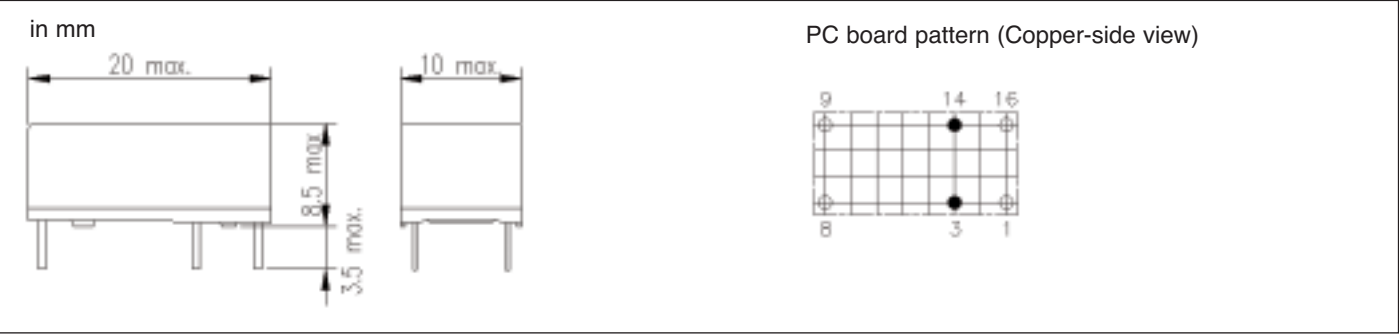
Operating function	Coil voltage*
Nil: Single side stable	5, 12, 24

* other coil voltages on request

TYPES AND COIL DATA

Single side stable	Pick-up voltage, V DC (max.)	Drop-out voltage V DC (min.)	Maximum allowable voltage, V DC	Coil resistance Ω (± 15%)	Nominal operating power, mW
DR-5V	3.75	0.5	16.5	320	78
DR-12V	9	1.2	30	1140	126
DR-24V	18	4.8	60	4370	131

DIMENSIONS



Matsushita Electric Works

NAIS

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