

Greenwich Electronics, Inc.

AR6 Series

- Heavy duty (20A) PCB relay
- 15A continuous rating at 105°C
- Silver alloy contacts
- Applications: automotive, industrial machinery, motor controls, general purpose



COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA) (± 10% at 20°C)	Coil Resistance (Ω) (± 10% at 20°C)
6	133	45
12	67	180
24	33	720

Pick-up Voltage	≤55% nominal
Drop-out Voltage	≥10% nominal
Max. Coil Voltage	130% nominal
Coil Consumption	Approx. 0.8W

Contact

Configuration	A: 1 form A (SPST-NO), C: 1 form C (SPDT)
Material	Silver (Ag) alloy
Rated Load	NO: 20A@16VDC NC: 16A@250VAC / 30VDC, 8A@250VAC / 30VDC
Initial Voltage Drop	≤250mV @25A
Max. Carry Current	NO: 25A
Max. Switching Voltage	75VDC
Max. Switching Current	NO: 20A
Max. Switching Power	500W, 4000VA

CHARACTERISTICS

Contact Resistance	Max. 50mΩ (0.1A/6V)
Operate Time	≤10ms
Release Time	≤5ms
Insulation Resistance	≥250MΩ (@500VDC)

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Dielectric Strength:

- Between coil and contacts 500VAC - 50Hz / one minute
- Between open contacts 500VAC - 50Hz / one minute

Vibration Resistance

10-50Hz, double amplitude 1.5mm

Shock Resistance

10g

Ambient Temperature

- Operate -40°C to 105°C
- Storage -40°C to 155°C

Relative Humidity

20% - 85%

Life Expectancy:

- Mechanical 1×10^7
- Electrical 1×10^5 (at rated load)

Weight

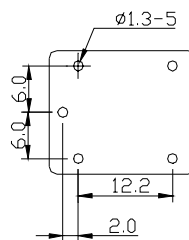
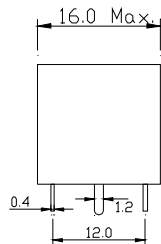
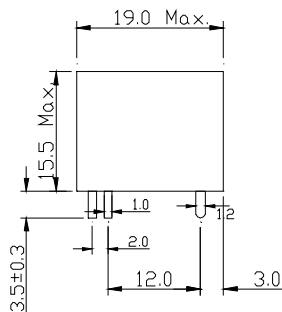
Approx. 10 grams

ORDERING INFORMATION

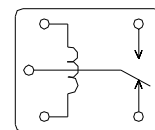
AR6 - 012 - C S
I II III IV

- | | | |
|------|-----------------------|--|
| I. | Series | AR6 |
| II. | Coil Voltage (VDC) | 006, 012, 024 |
| III. | Contact configuration | A - 1 form A (SPST-NO), C - 1 form C (SPDT) |
| IV. | Package Type | nil - dust cover, S - Sealed |

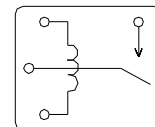
AR6 Series Dimensions and Schematics (in mm)



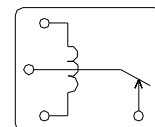
Terminal arrangement and wiring diagram



SPDT - 1 form C



SPST-NO - 1 form A



SPST-NC - 1 form B