


Greenwich Electronics, Inc.

GP7 Series

- SPDT (16A) and DPDT (12A)
- Low package height
- High dielectric strength (5kV), 10mm creepage distance
- Class B insulation standard, Class F optional
- Industry standard footprint
- Approvals:  us (E197071)
- Applications: HVAC, industrial controls, general purpose



COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA) (± 10% at 20 ⁰ C)	Coil Resistance (Ω) (± 10% at 20 ⁰ C)
5	80	62
6	67	90
12	33	360
24	17	1440
48	8	5760 (± 15%)
60	8	7500 (± 15%)
110	4	25200 (± 15%)

Pick-up Voltage	≤70% nominal
Drop-out Voltage	≥10% nominal
Max. Coil Voltage	130% nominal
Coil Consumption	0.40W

CONTACT

Configuration	A: 1 form A (SPST-NO), 2A: 2 form A (DPST-NO) B: 1 form B (SPST-NC), 2B: 2 form B (DPST-NC) C: 1 form C (SPDT), 2C: 2 form C (DPDT)
Material	Silver (Ag) alloy
Rated Load	1 pole: 12A/16A@250VAC, 10A@24VDC 2 pole: 8A@250VAC/24VDC
Max. Carry Current	1 pole: 16A; 2 pole 8A
Max. Switching Voltage	440VAC
Max. Switching Current	1 pole: 16A; 2 pole: 8A
Max. Switching Power	1 pole: 4000VA/240W 2 pole: 2000VA/192W

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CHARACTERISTICS

Contact Resistance	Max. 50mΩ (1A@6VDC)
Operate Time	≤7ms
Release Time	≤3ms
Insulation Resistance	1000MΩ (@500VDC)
Dielectric Strength:	
Between coil and contacts	5000VAC - one minute
Between open contacts	1000VAC - one minute
Between contact sets	2500VAC - one minute
Vibration Resistance	10-150Hz, 1.5mm, double amplitude
Shock Resistance	
Functional	Approx. 10g
Destructive	Approx. 100g
Ambient Temperature	-40°C to 85°C
Relative Humidity	35% to 85%
Life Expectancy:	
Mechanical	1 x 10 ⁷
Electrical	1 x 10 ⁵ (at rated load)
Weight	Approx. 13.5 grams

ORDERING INFORMATION

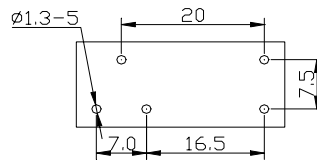
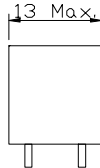
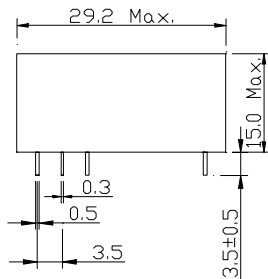
GP7 - 012 - 2C 5 8 S F
I II III IV V VI VII

I. Series	GP7
II. Coil Voltage (VDC)	005, 006, 012, 024, 048, 060, 110
III. Contact Configuration	A - 1 form A (SPST-NO), 2A - 2 form A (DPST-NO) B - 1 form B (SPST-NC), 2B - 2 form B (DPST-NC) C - 1 form C (SPDT), 2C - 2 form C (DPST)
IV. Pin Spacing	3 - 3.5mm (1 pole only), 5 - 5.0mm
V. Contact Rating	8 - 8A (2 pole only), 12 - 12A (1 pole only), 16 - 16A (1 pole only)
VI. Package Type	D - dust cover, S - Sealed
VII. Insulation	nil - Class B (130°C), F - Class F (155°C)

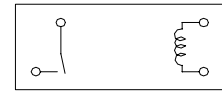
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GP7 Series Dimensions and Schematics (in mm)

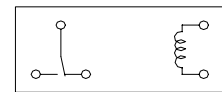
3.5mm, 1 pole, 12A



Terminal arrangement and wiring diagram

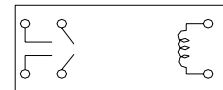
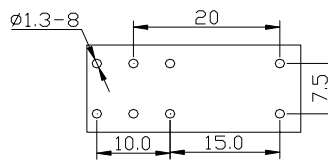
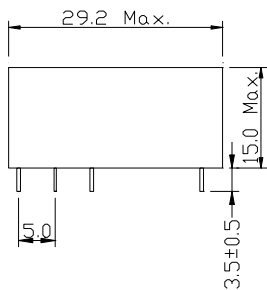


SPST-NO - 1 form A

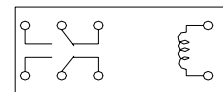


SPDT - 1 form C

5.0mm, 2 pole, 8A

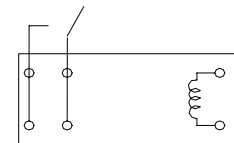
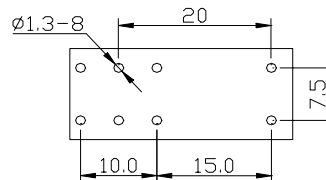
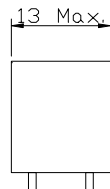
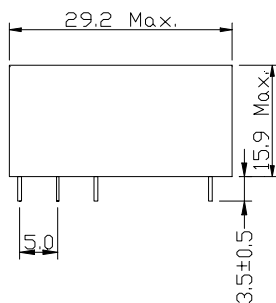


DPST-NO - 2 form A

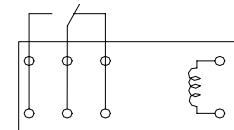


DPDT - 2 form C

5.0mm, 1 pole, 16A



SPST-NO - 1 form A



SPDT - 1 form C