GLOBAL Components & Controls

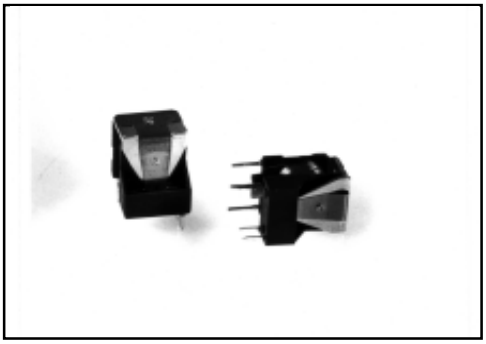
# G17

## ■ *Features*

- Sub-miniature, PCB mounting
- Switching capacity up to 20A
- Six different contact arrangements
- Available in open, dust cover and sealed versions
- Suitable for automotive and other power switching applications

## ■ *Typical Automotive Applications*

- Air Conditioning
- Fuel pump control
- Door locking
- Flashers or turning signals
- Anti-lock braking system
- Interval wiper control
- Power window
- Alarm system
- Automatic mirror adjustment



## ■ *Contact Data*

| Arrangement | | 1 Form A | 1 Form B | 1 Form C(NO) | 1 Form C (NC) | 1 Form U | 1 Form V | 1 Form W(NO) | 1 Form W (NC) |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Switching Currents | Make | 60A | 12A | 60A | 12A | 2x40A | 2x8A | 2x30A | 2x5A |
| | Break | 20A | 10A | 20A | 10A | 2x20A | 2x7A | 2x15A | 2x5A |
| Material | | AgNi | | | | | | | |
| Max. Switching Voltage | | 75VDC, see Power Load Curve | | | | | | | |
| Max. Continuous Current | | 15A | 10A | 15A | 10A | 2x10A | 2x7A | 2x7A | 2x5A |
| Max. Switching Power | | 200W, see Power Load Curve; 500VA | | | | | | | |
| Min. Load | | 0.5A, 12VDC | | | | | | | |
| Initial Resistance | | 100mΩ at 1A, 5VDC | | | | | | | |
| Service Life | Mechanical | $10^7$ operations at operating frequency of 300 ops./min. | | | | | | | |
| | Electrical | $2x10^5$ operations, see Notes 5 | | | | | | | |

## ■ *Characteristics*

| | |
|---|---|
| Operate Time | 3 ms, approx. |
| Release Time | 1.5 ms, approx. |
| Insulation Resistance | 100MΩ, min. at 500VDC, 50% RH |
| Dielectric Strength | 500Vrms , 1 min. |
| Shock Resistance | 10g, 11ms, functional |
| Vibration Resistance | DA 1.5mm, 10-55 Hz, functional |
| Drop Resistance | 1 M drop on concrete in final enclosure |
| Power Consumption | 1.1W, approx. |
| Ambient Temperature | -40°C to +85°C operating, see Ambient Temperature Curve; -40°C to +155°C storage |
| Weight | Open: 8g; Covered: 12g, approx. |

## ■ *Coil Data*

| Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ω) ± 10% | Nominal Current (mA) | Must Operate Voltage Max(V) | | Allowable Voltage Max. | Must Release Voltage Min.(V) | |
|---|---|---|---|---|---|---|---|---|
| | | | | A,B,C,U,V | W | | B,V, | A,C,U,W |
| 006 | 6 | 28 | 215 | 3.75 | 4.5 | 8 | 0.35 | 0.7 |
| 012 | 12 | 130 | 93 | 7.5 | 9 | 16 | 0.7 | 1.4 |
| 024 | 24 | 520 | 46 | 15 | 18 | 31 | 1.4 | 2.8 |

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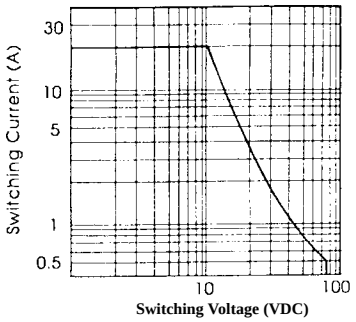
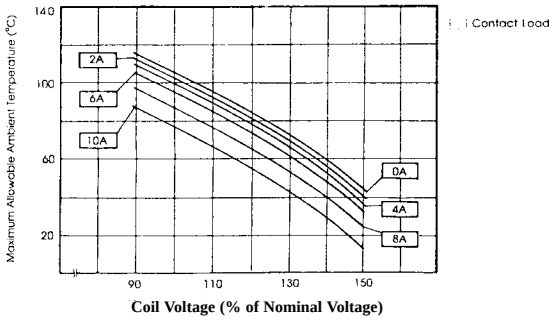
## ■ *Useful Curves*



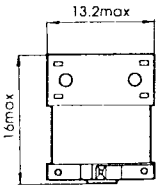

**Max. Allowable Ambient Temperature**

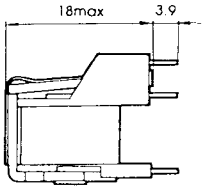



## ■ *Dimensions*

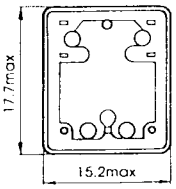
### Overall Dimensions

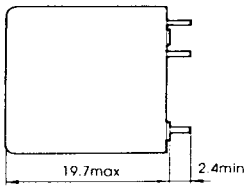
**Open**



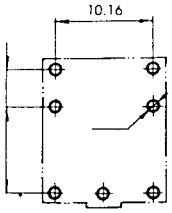

**Covered**



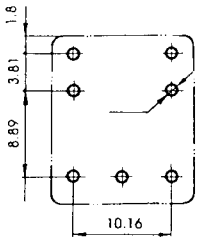




### PCB Openings

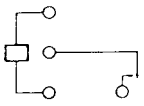
**Open**

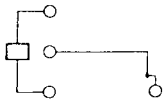



**Sealed**




### Wiring Diagrams


1 Form A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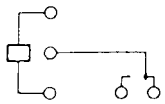
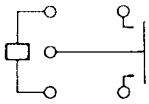
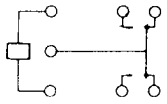

1 Form C


1 Form U


1 Form V


1 Form W

## ■ *How to order*

G17 W S S – DC12

- Model
- Contact Form: A, B, C, U, V, W
- Nil = Open; S = Sealed; D = Dust Cover
- Contact Material: Nil = AgNi; A = FG–Ag; C = AgMeOl; S= AgMeO2
- Coils: 6, 12, 24

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