GLOBAL Components & Controls

# G73

## ■ *Features*

- Class B standard ; Class F version available
- Switching capacity 20A, 14VDC ; 15A, 120VAC
- Most popular industry footprint and package
- Choice of contact materials
- Automotive versions "M" available


## ■ *Coil Data*

| Nominal Voltage (VDC) | | Coil Resistance (W ± 10%) | Pick-Up Voltage (VDC) | Drop-Out Voltage (VDC) |
|---|---|---|---|---|
| STD | 5 | 70 | 3.5 | 0.5 |
| | 6 | 100 | 4.2 | 0.6 |
| | 9 | 225 | 6.3 | 0.9 |
| | 12 | 400 | 8.4 | 1.2 |
| | 24 | 1600 | 16.8 | 2.4 |
| | 48 | 6400 | 33.6 | 4.8 |
| Code M | 6 | 45 | 3.2 | 0.6 |
| | 12 | 180 | 6.3 | 1.2 |
| | 24 | 720 | 12.6 | 2.4 |

## ■ *Contact Data*

| | | |
|---|---|---|
| Contact Arrangement | | 1 Form A (1A); 1 Form C (1C) |
| Contact Code/Material | | Nil:AgNiO ; A:Agni$O_{1.5}$ ; C: AgCdO; S:Ag$SnOI_2O_3$ |
| Contact Rating/Code | | C=10A, 28VDC/120VAC ; A=20A, 14VDC |
| Max. Switching Voltage | | 30VDC, 250VAC |
| Max. Switch Current | | Code C= 15A ; Code A= 20A |
| Max. Continuous Current | | 15A |
| Minimum Load (reference) | | Code C=0.5A, 12VDC ; Code A: 10mA, 5VDC |
| Initial Resistance | | 100mOhm @ 100mA, 5VDC |
| Life | Mechanical | 1 x $10^6$ operations @ rated load |
| | Electrical | 1 x $10^5$ operations @ rated load |

## ■ *How to order*

G73 M C S - DC12 C

- Basic Model
- Version: Blank = Standard; M = Automotive type
- Contact Form: A = 1 Form A; C = 1 Form C
- Enclosure: D = Dust Cover; S = Sealed
- Coil Voltage(VDC): 3,5,6*,9,12*,24*,48
- Contact Material: Blank= AgNi10; A=AgNi0.15; C=AgCdO; S=AgSnOI O

Note: Code M contacts only available in AgNiO & Agni$O_{1.5}$ and coil voltages marked with *.

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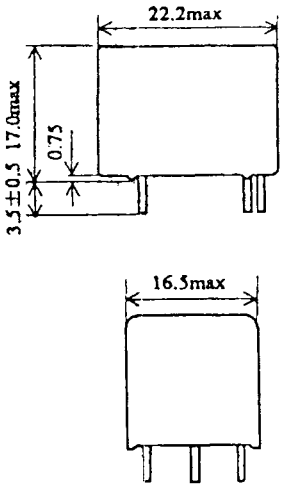
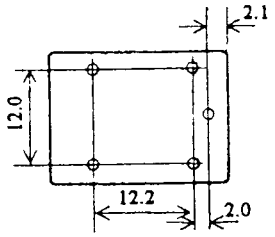
## ■ *Characteristics*

| | |
|---|---|
| Operate Time | 10ms, max. |
| Release Time | 5 ms, max. |
| Dielectric Strength | 1500Vrms ( 1 minute, coil to contacts )<br>1000Vrms ( 1 minute contact to contact ) |
| Insulation Resistance | 100mOhm @ 500VDC |
| Shock Resistance | 10g, operative ; 100g, non-destructive |
| Vibration Resistance | DA 1.5mm, 10-55Hz |
| Drop Test | 1 meter drop on concrete in final enclosure ( 6 axii ) |
| Power Consumption | 360mW (Code C) ; 800mW (Code A) |
| Ambient Temperature | Standard: -40 C to +85 C operating; -40 C to +130 C storage (Class B)<br>Code A Type: -40 C to +105 C operating; -40 C to +155 storage (Class F) |
| Weight | 12g, approx. |

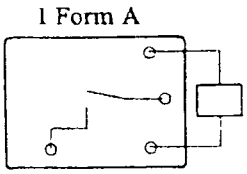
## ■ *Dimensions, PCB, and Wiring Diagrams*

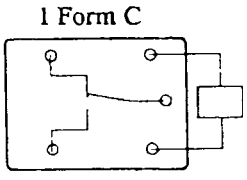



*PCB Opening*




*Wiring Diagram*




Notes:

1. All values, unless otherwise specified, are measured at ambient temperature of 20°C.
2. Specifications subject to change without prior notice.

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