



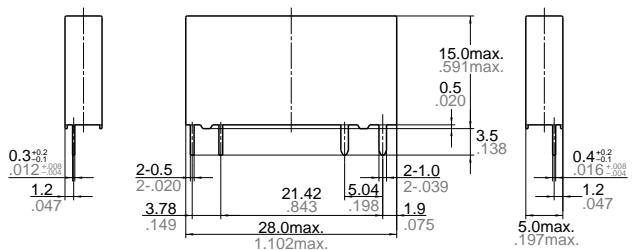
**TYPES AND COIL DATA (at 20°C 68°F)**

| Part No. | Contact arrangement          | Nominal voltage, V DC | Pick-up voltage, (Initial) V DC (max.) | Drop-out voltage, (Initial) V DC (min.) | Nominal operating current, mA (±10%) | Nominal operating power, mW | Coil resistance, Ω (±10%) | Max. allowable voltage, V DC |
|----------|------------------------------|-----------------------|--|---|--------------------------------------|-----------------------------|---------------------------|------------------------------|
| APE1004H | 1 Form A (without Au-plated) | 4.5                   | 2.97                                   | 0.225                                   | 38                                   | 170                         | 119                       | 5.4                          |
| APE10006 |                              | 6                     | 3.96                                   | 0.3                                     | 28                                   |                             | 212                       | 7.2                          |
| APE10012 |                              | 12                    | 7.92                                   | 0.6                                     | 14                                   |                             | 847                       | 14.4                         |
| APE10018 |                              | 18                    | 11.88                                  | 0.9                                     | 9                                    |                             | 1,906                     | 21.6                         |
| APE10024 |                              | 24                    | 15.84                                  | 1.2                                     | 7                                    |                             | 3,388                     | 28.8                         |
| APE10048 |                              | 48                    | 31.68                                  | 2.4                                     | 5                                    |                             | 217                       | 10,618                       |
| APE1014H | 1 Form A (with Au-plated)    | 4.5                   | 2.97                                   | 0.225                                   | 38                                   | 170                         | 119                       | 5.4                          |
| APE10106 |                              | 6                     | 3.96                                   | 0.3                                     | 28                                   |                             | 212                       | 7.2                          |
| APE10112 |                              | 12                    | 7.92                                   | 0.6                                     | 14                                   |                             | 847                       | 14.4                         |
| APE10118 |                              | 18                    | 11.88                                  | 0.9                                     | 9                                    |                             | 1,906                     | 21.6                         |
| APE10124 |                              | 24                    | 15.84                                  | 1.2                                     | 7                                    |                             | 3,388                     | 28.8                         |
| APE10148 |                              | 48                    | 31.68                                  | 2.4                                     | 5                                    |                             | 217                       | 10,618                       |
| APE3004H | 1 Form C (without Au-plated) | 4.5                   | 2.97                                   | 0.225                                   | 38                                   | 170                         | 119                       | 5.4                          |
| APE30006 |                              | 6                     | 3.96                                   | 0.3                                     | 28                                   |                             | 212                       | 7.2                          |
| APE30012 |                              | 12                    | 7.92                                   | 0.6                                     | 14                                   |                             | 847                       | 14.4                         |
| APE30018 |                              | 18                    | 11.88                                  | 0.9                                     | 9                                    |                             | 1,906                     | 21.6                         |
| APE30024 |                              | 24                    | 15.84                                  | 1.2                                     | 7                                    |                             | 3,388                     | 28.8                         |
| APE30048 |                              | 48                    | 31.68                                  | 2.4                                     | 5                                    |                             | 217                       | 10,618                       |
| APE3014H | 1 Form C (with Au-plated)    | 4.5                   | 2.97                                   | 0.225                                   | 38                                   | 170                         | 119                       | 5.4                          |
| APE30106 |                              | 6                     | 3.96                                   | 0.3                                     | 28                                   |                             | 212                       | 7.2                          |
| APE30112 |                              | 12                    | 7.92                                   | 0.6                                     | 14                                   |                             | 847                       | 14.4                         |
| APE30118 |                              | 18                    | 11.88                                  | 0.9                                     | 9                                    |                             | 1,906                     | 21.6                         |
| APE30124 |                              | 24                    | 15.84                                  | 1.2                                     | 7                                    |                             | 3,388                     | 28.8                         |
| APE30148 |                              | 48                    | 31.68                                  | 2.4                                     | 5                                    |                             | 217                       | 10,618                       |

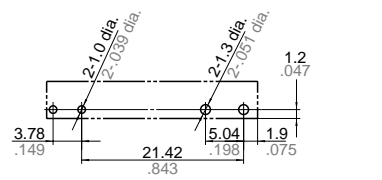
**DIMENSIONS**

mm inch

**1. 1 Form A type**



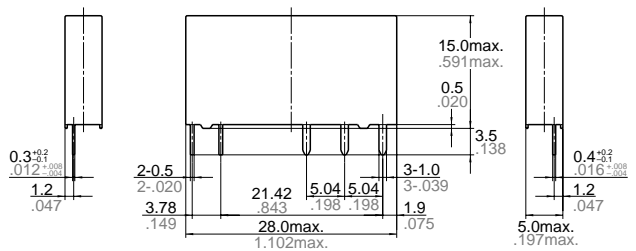
PC board pattern (Bottom view)



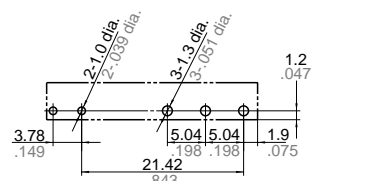
Schematic (Bottom view)



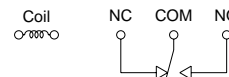
**2. 1 Form C type**



PC board pattern (Bottom view)

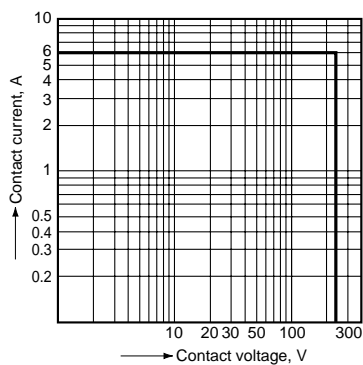


Schematic (Bottom view)



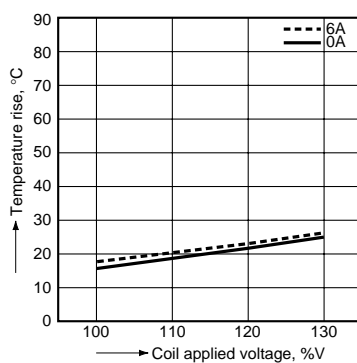
## REFERENCE DATA

### 1. Max. switching capacity



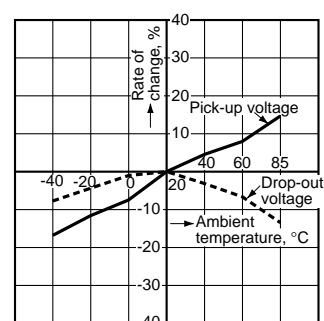
### 2. Coil temperature rise

Sample: APE30012  
 Measured portion: Inside the coil  
 Ambient temperature: 28°C 82°F



### 3. Ambient temperature characteristics

Sample: APE30012  
 No. of samples: n = 6



## NOTES

### Rating

| Standard | File No.          | Rating   |
|----------|-------------------|--|
| UL       | E43149            | 6 A 277 V AC   |
| VDE      | 122402ÜG          | 6 A 250 V AC<br>( $\cos\phi = 1$ )<br>1 A 250 V AC<br>( $\cos\phi = 0.4$ ) |
| SEV      | CH-99.1 10483.2A1 | 6 A 250 V AC<br>( $\cos\phi = 1$ )   |

**For Cautions for Use, see Relay Technical Information (Page 48 to 76).**