



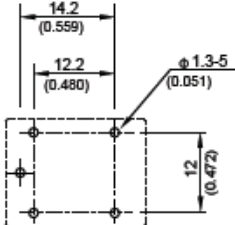
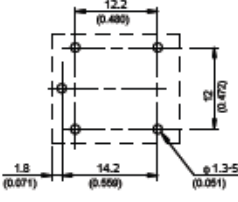
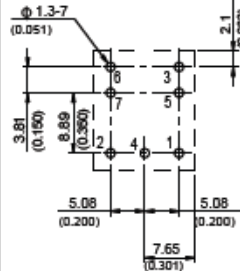
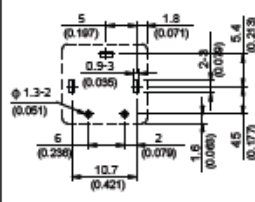






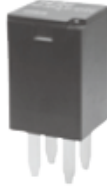







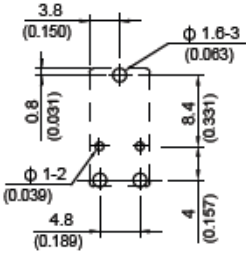
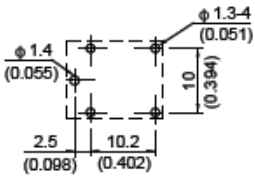
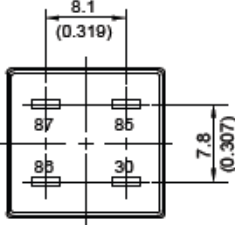
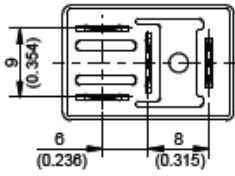
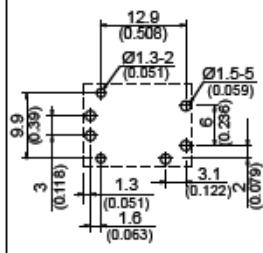
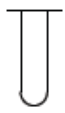








Relays Selection Chart





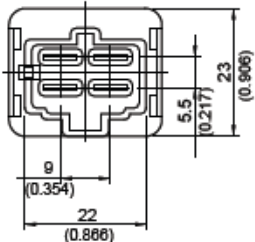
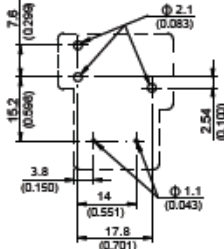
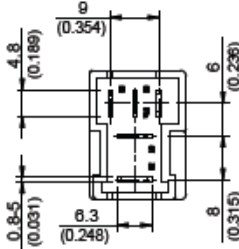
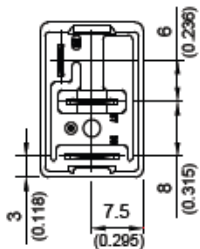


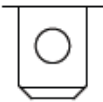

| Type | 812HM | 833HM | 861 | 102 | |
|--|---|---|---|---|-------------------|
| Photo |  |  |  |  | |
| Description | | | | | |
| Outline (L×W×H) mm No including terminals | 21 × 16 × 16.3 | 19 × 15.5 × 15 | 17.5 × 15 × 19.5 | 14.2 × 13.2 × 9.7 | |
| Contact configuration | 1A · 1C | 1A · 1B · 1C | SP DM-DB | 1A · 1C | |
| Max. Allowable Contact current (A) | 15A | 15A | 15A | 20A | |
| | | | | | 45 |
| | | | | | 40 |
| | | | | | 35 |
| | | | | | 30 |
| | | | | | 25 |
| | | | | | 20 |
| 15 | | | | | |
| 10 | | | | | |
| 5 | | | | | |
| 3 | | | | | |
| Contact rating Resistive load | 15A 14VDC | 15A 14VDC | 15A 14VDC SPDM : 10A×2 14VDC | NO : 20A 14VDC NC : 10A 14VDC | |
| Coil voltage | DC | 9 · 12 · 24V | 9 · 12 · 24V | 6 · 9 · 12 · 24V | 6 · 9 · 12 · 24V |
| | AC | ----- | ----- | ----- | ----- |
| Power consumption | DC | 0.64W | 0.45W | 1.1W | 0.64W |
| | AC | ----- | ----- | ----- | ----- |
| Life expectancy | Mechanical (Min.) | 1×10 ⁷ | 1×10 ⁷ | 1×10 ⁷ | 1×10 ⁷ |
| | Electrical (Min.) | 1×10 ⁵ | 3×10 ⁴ | 1×10 ⁵ | 1×10 ⁵ |
| Dielectric strength | Open contact | 500VAC | 500VAC | 500VAC | 500VAC |
| | Contact and coil | 500VAC | 500VAC | 500VAC | 500VAC |
| | Contact circuits | ----- | ----- | ----- | ----- |
| Terminal layout |  |  |  |  | |
| mm (inch) Bottom view (PCB layout) | | | | | |
| Terminal type |  |  |  |  | |
| Page no. | 209~211 | 212~214 | 215~218 | 219~221 | |

Relays Selection Chart











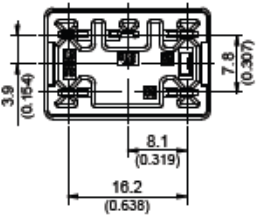
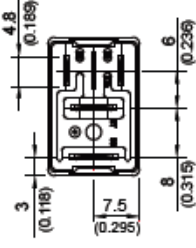
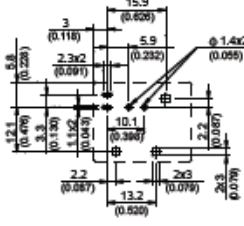
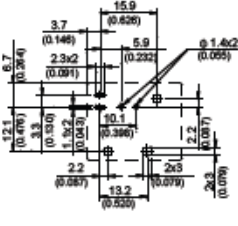
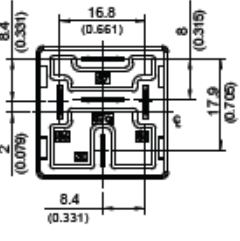

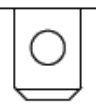

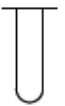

| 103 | 895 | 303 | 108 | 905 |
|---|---|---|---|---|
|  |  |  |  |  |
| 14.4 × 7.6 × 13.7 | 15.5 × 12 × 13.8 | 16 × 15 × 23.7 | 22.5 × 15 × 16 | 16.6 × 12.6 × 17 |
| 1A · 1C | 1A · 1C · 2A | 1A | 1A | 1A · 1C |
|  20A |  20A |  20A |  25A |  30A |
| NO : 20A 14VDC NC : 10A 14VDC | NO : 20A 14VDC NC : 10A 14VDC | 20A 14VDC 10A 28VDC | 25A 14VDC | NO : 30A 14VDC NC : 20A 14VDC |
| 6 · 9 · 12 · 24V | 5 · 9 · 12 · 24V | 12 · 24V | 12V | 12V |
| ---- | ---- | ---- | ---- | ---- |
| 0.64W | 0.64W · 1.0W · 0.8W | 0.96W | 0.8W | 0.72W |
| ---- | ---- | ---- | ---- | ---- |
| 1 × 10 ⁷ | 1 × 10 ⁷ | 1 × 10 ⁷ | 1 × 10 ⁶ | 1 × 10 ⁷ |
| 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ |
| 500VAC | 500VAC | 500VAC | 500VAC | 500VAC |
| 500VAC | 500VAC | 500VAC | 500VAC | 500VAC |
| ---- | ---- | ---- | ---- | ---- |
|  |  |  |  |  |
|  |  | 280  |  |  |
| 222~224 | 225~228 | 229~231 | 232~233 | 234~235 |



Relays Selection Chart




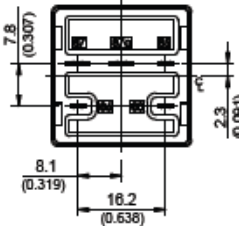
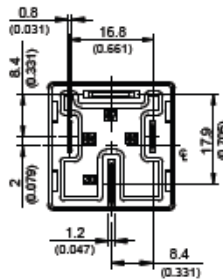
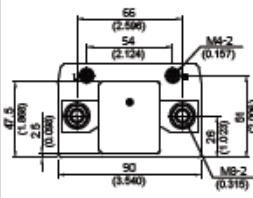


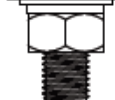
| Type | 804 | 832AM | 871 | 871A |
|--|---|---|--|---|
| Photo |  |  |  |  |
| Description | | | | |
| Outline (L×W×H) mm No including terminals | 27.7 × 23 × 29.3 | 32.2 × 27.5 × 20.4 | 23 × 15.5 × 25.4 | 22.5 × 15 × 25.4 |
| Contact configuration | 1A | 1A、1C | 1A、1C | 1A |
| Max. Allowable Contact current (A) | 30A | 30A | 35A | 35A |
| 45 | | | | |
| 40 | | | | |
| 35 | | | | |
| 30 | | | | |
| 25 | | | | |
| 20 | | | | |
| 15 | | | | |
| 10 | | | | |
| 5 | | | | |
| 3 | | | | |
| Contact rating Resistive load | 30A 12VDC 15A 24VDC | 1A : 30A 14VDC 1C : NO 20A/NC 10A 14VDC | NO : 35A 14VDC 15A 28VDC NC : 20A 14VDC 10A 28VDC | 35A 14VDC |
| Coil voltage | DC 12、24V AC ----- | 9、12、24V ----- | 6、12、24V ----- | 12V ----- |
| Power consumption | DC 1.4W AC ----- | 0.93W ----- | 1.2W ----- | 1.2W ----- |
| Life expectancy | | | | |
| Mechanical (Min.) | 5×10 ⁶ | 1×10 ⁷ | 1×10 ⁷ | 1×10 ⁶ |
| Electrical (Min.) | 1×10 ⁵ | 1×10 ⁵ | 1×10 ⁵ | 1×10 ⁵ |
| Dielectric strength | | | | |
| Open contact | 500VAC | 500VAC | 500VAC | 500VAC |
| Contact and coil | 500VAC | 500VAC | 500VAC | 500VAC |
| Contact circuits | ----- | ----- | ----- | ----- |
| Terminal layout | | | | |
| mm (inch) Bottom view (PCB layout) |  |  |  |  |
| Terminal type |  |  |  |  |
| Page no. | 236~238 | 239~241 | 242~245 | 246~247 |

Relays Selection Chart

| 301 | 611 | 822E OPEN | 822E Cover | 896 |
|---|---|---|---|---|
|  |  |  |  |  |
| 22.5 × 15 × 25 | 22.5 × 15 × 25.4 | 25 × 21 × 20 | 26.6 × 21.4 × 21.8 | 25.8 × 25.8 × 25 |
| 1A · 1C | 1A | 1A · 1B · 1C | 1A · 1B · 1C | 1A · 1B · 1C · 2A |
|  |  |  |  |  |
| NO : 35A 14VDC 15A 28VDC NC : 20A 14VDC 10A 28VDC | 35A 14VDC | 1A : 40A 14VDC 1B : 30A 14VDC 1C : NO 40A/NC 20A 14VDC | 1A : 40A 14VDC 1B : 30A 14VDC 1C : NO 40A/NC 20A 14VDC | 896H : 50A 14VDC 20A 28VDC 896 : 40A 14VDC |
| 6 · 12 · 24V | 12V | 6 · 9 · 12 · 24V | 6 · 9 · 12 · 24V | 12 · 24V |
| ----- | ----- | ----- | ----- | ----- |
| 1.2W | 1.2W | 1.6W · 1.2W | 1.6W · 1.2W | 1.6W |
| ----- | ----- | ----- | ----- | ----- |
| 1 × 10 ⁷ | 1 × 10 ⁶ | 1 × 10 ⁷ | 1 × 10 ⁷ | 1 × 10 ⁷ |
| 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ | 1 × 10 ⁵ |
| 500VAC | 500VAC | 500VAC | 500VAC | 500VAC |
| 500VAC | 500VAC | 500VAC | 500VAC | 500VAC |
| ----- | ----- | ----- | ----- | ----- |
|  |  |  |  |  |
| 280  |  |  |  |  |
| 248~250 | 251~252 | 253~257 | 253~257 | 258~263 |



Relays Selection Chart

| Type | 898 | 897 | 409 | |
|--|---|---|--|-------------------|
| Photo |  |  |  | |
| Description | | | | |
| Outline (L×W×H) mm No including terminals | 25.8 × 25.8 × 25 | 25.8 × 25.8 × 25 | 90 × 58 × 49.5 | |
| Contact configuration | 1A · 1B · 1C | 1A | 1A | |
| Max. Allowable Contact current (A) | 45 | 50A | 70A | |
| | 40 | | | |
| | 35 | | | |
| | 30 | | | |
| | 25 | | | |
| | 20 | | | |
| | 15 | | | |
| | 10 | | | |
| 5 | | | | |
| 3 | 200A | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Contact rating Resistive load | 898H: 50A 14VDC 20A 28VDC 898: 40A 14VDC | 70A 14VDC 25A 28VDC | 200A 24VDC | |
| Coil voltage | DC | 12 · 24V | 12 · 24V | 24V |
| | AC | ----- | ----- | ----- |
| Power consumption | DC | 1.6W | 1.6W | 4.8W |
| | AC | ----- | ----- | ----- |
| Life expectancy Mechanical (Min.) | | 1×10 ⁷ | 1×10 ⁷ | 1×10 ⁶ |
| | Electrical (Min.) | 1×10 ⁵ | 1×10 ⁵ | 5×10 ⁴ |
| Dielectric strength | Open contact | 500VAC | 500VAC | 1000VAC |
| | Contact and coil | 500VAC | 500VAC | 1000VAC |
| | Contact circuits | ----- | ----- | ----- |
| Terminal layout |  |  |  | |
| mm (inch) Bottom view (PCB layout) | | | | |
| Terminal type | 280  |  |  | |
| Page no. | 264~268 | 269~274 | 275~276 | |