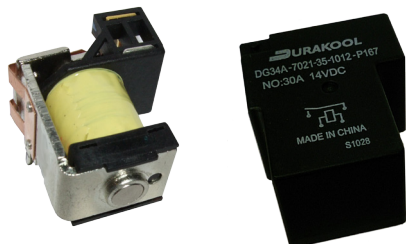


DG34A

automotive pcb power relay

DURAKOOL



- Up to 30A /24VDC continuous rating
- 75VDC maximum switching voltage
- Optional version for starter solenoids
- Cost effective
- RoHS Compliant

Contacts

| | | |
|--|---|---|
| Contact number & arrangement | SPST-NO (1 Normally Open); SPDT (1 Changeover) | |
| Contact material | AgNi0.15; AgNi 90/10; AgCdO; AgSnOInO | |
| Max. switching voltage | DC | 75V |
| Min. switching current / voltage | 100mA/12VDC (AgNi 90/10, AgNi0.15); 500mA/12VDC (AgCdO, AgSnOInO) | |
| Max. continuous current | A | SPST-NO: 30A / SPDT: 30A (NO), 15A (NC) |
| Max. switching current ³ (AgSnOInO) | make | SPST-NO: 60A / SPDT: 60A (NO), 30A (NC) |
| | break | SPST-NO: 30A / SPDT: 30A (NO), 15A (NC) |
| Initial resistance | 100mΩ, max. at 0.1A/6VDC | |
| Coil | | |
| Rated voltage | DC | 6, 12, 24V |
| Must release voltage | ≥0.1Un | |
| Operating range of supply voltage | See coil table 1 | |
| Rated power consumption | DC | 1.5W |
| Insulation | | |
| Insulation resistance | 100MΩ at 500VDC, 50%RH | |
| Dielectric strength | | |
| | coil to contact | 500Vrms, 1min |
| General Data | | |
| Operating time (typical) | ms | 9 |
| Release time (typical) | ms | 7 |
| Electrical Life ⁵ | ops | 2 x 10 ⁵ |
| Mechanical life | ops | 1 x 10 ⁷ |
| Dimensions | L x W x H | 31.7 x 26.9 (max) x 19.1mm |
| Weight | 20g (open frame); 26g (covered) | |
| Ambient temperature | storage | -40 to 155°C |
| | operating | -40 to 125°C |
| Shock resistance | Functional: 20g 11ms; Destructive: 100g | |
| Drop resistance | 1M height drop on to concrete (sealed type only) | |
| Vibration resistance | 10-40Hz: DA 1.27mm; 40-70Hz: 5g; 70-100Hz: DA 0.5mm; 100-500Hz: 10g | |

DG34A

automotive pcb power relay

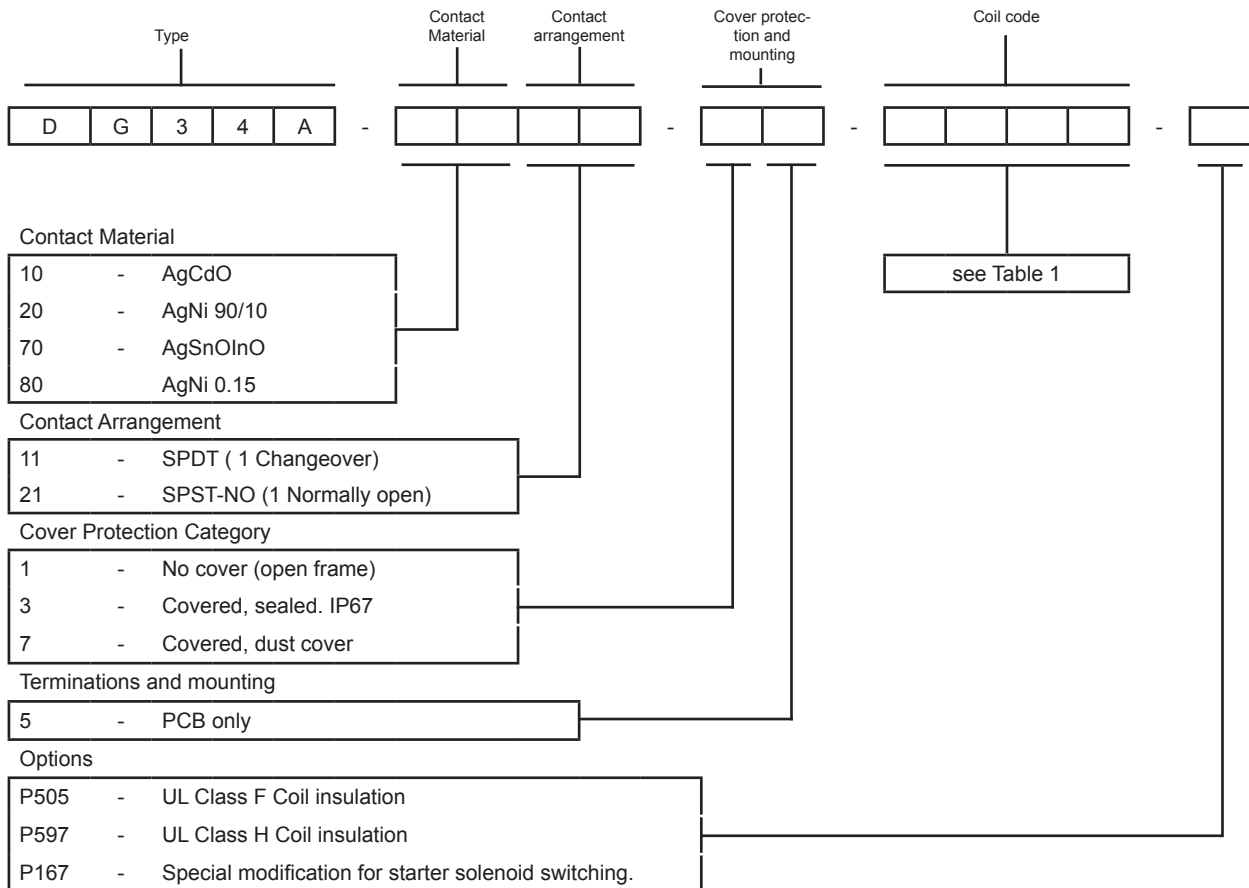


Coil Data

Table 1

| Coil Voltage Code | Nominal Voltage (VDC) | Coil Resistance (Ω) $\pm 10\%$ | Must operate voltage max. (VDC) | Max. allowable voltage (VDC) | Must release voltage min. (VDC) |
|-------------------|-----------------------|---|---------------------------------|------------------------------|---------------------------------|
| 1006 | 6 | 27 | 3.6 | 11.7 | 0.6 |
| 1012 | 12 | 97 | 7.2 | 22.2 | 1.2 |
| 1024 | 24 | 380 | 14.4 | 43.9 | 2.4 |

Ordering codes



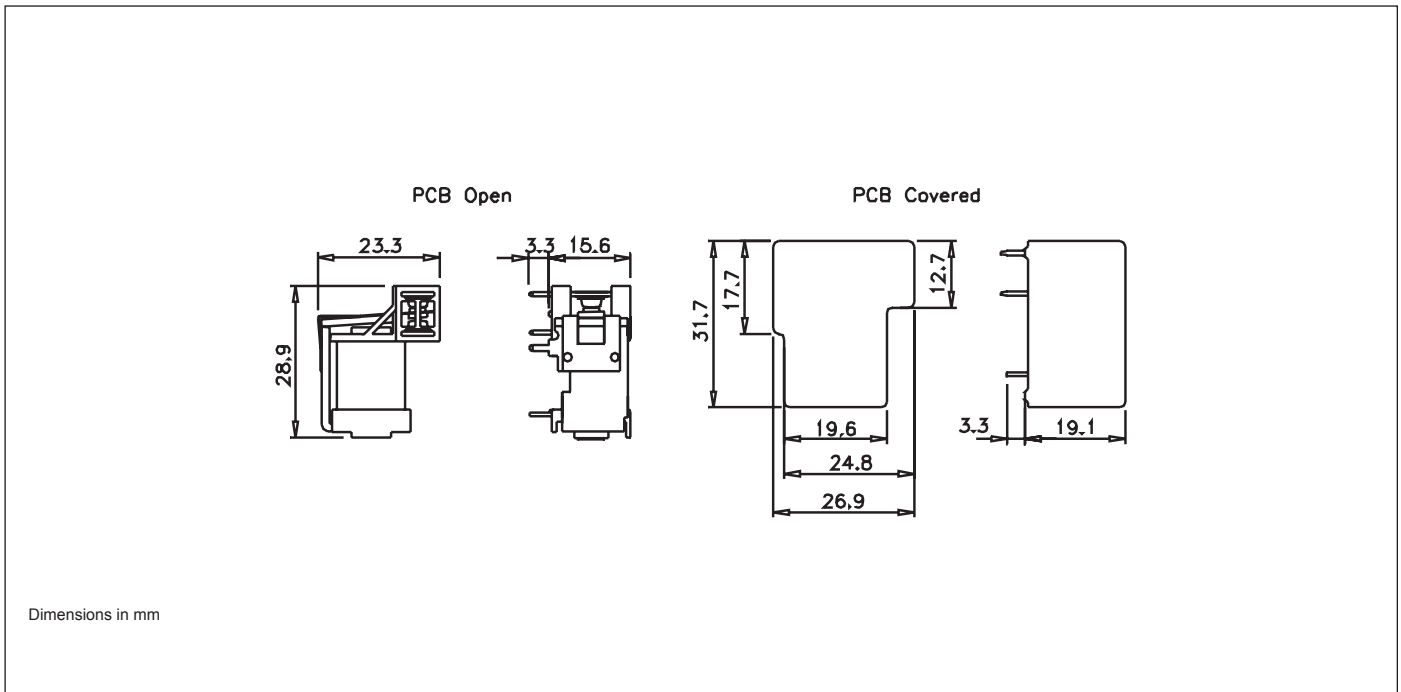
DG34A

automotive pcb power relay



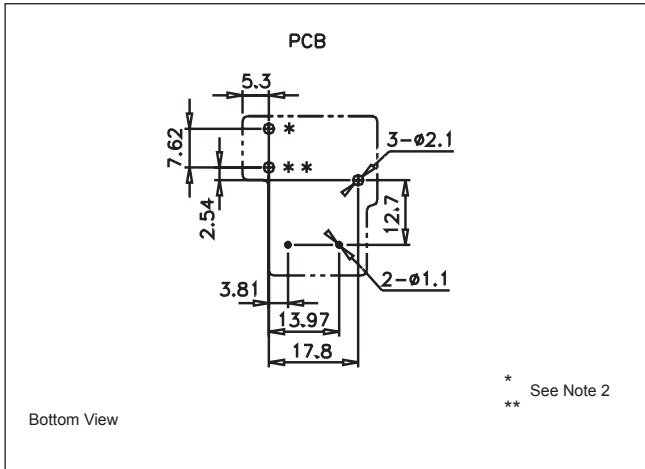
Overall Dimensions

Fig. 1



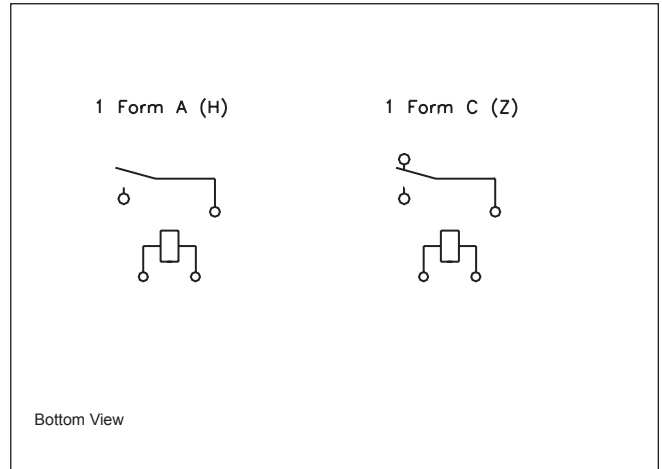
PCB Mounting Dimensions

Fig. 2



Wiring Diagrams

Fig. 3



Notes:

- 1) All parameters, unless otherwise specified, are measured at an ambient temperature of 23°C.
- 2) PCB Mounting Holes - the "*" hole is not needed for the SPST-NO version and the hole "**" is not needed for a SPST-NC version (contact factory - special order only).
- 3) Maximum make current refers to inrush current for Lamp Load.
- 4) At an ambient temperature of 85°C, the maximum allowable coil voltage should be reduced to 72%.
- 5) Electrical life obtained at resistive or inductive load at 30A/15VDC with suitable arc suppression attached and with an operating frequency of 1 op/sec.

