



- General purpose automotive or industrial relays
- High resistance to inrush current
- For pcb mounting
- US and European pin configurations
- Open, dust cover and sealed options
- 30 to 45A continuous current capacity
- RoHS Compliant

## Contacts

Contact number & arrangement	SPST-NO (1NO), SPST-NC (1NC), SPDT (1 C/O)
Contact material	AgNi, AgNi0.15, AgSnOInO, AgCdO
Max. switching voltage	30VDC - current dependent - see curve Fig 2
Max. continuous current	SPST-NO: 45A / 12VDC, SPST-NO: 30A / 12VDC SPDT: 45A (NO) / 30 (NC) / 12VDC
Max. inrush current	SPST-NO: 100A (180A AgSnOInO), SPST-NC:30A SPDT: 100A (180A AgSnOInO) NO / 30A NC
Rated current	SPST-NO: 45A, SPST-NC: 30A, SPDT: 45A (NO), 30A (NC)
Max. breaking capacity	SPST-NO: 60A, SPST-NC: 30A, SPDT: 60A (NO), 30A (NC)
Min. breaking capacity	1W
Min. switching current	10mA 12VDC (contact material dependent)
Resistance	< 100mΩ at 0.1A / 6VDC

## Coil

Rated voltage	6, 12 & 24VDC
Must release voltage	≥ 0.01U <sub>n</sub>
Operating range of supply voltage	See Table 1
Rated power consumption	1.5W

## Insulation

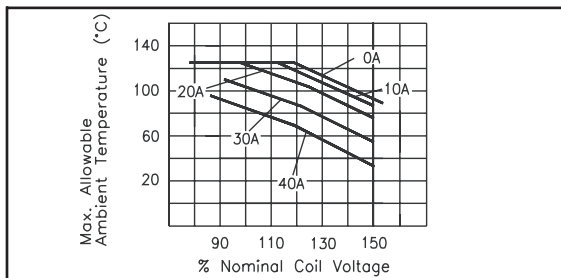
Dielectric strength coil - contact	500Vrms / 1min
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## General data

Operating time (typical value)	≤5msec
Release Time	≤3msec
Electrical Life resistive	> 2 x10 <sup>5</sup>
Mechanical life	> 10 <sup>7</sup>
Dimensions (L x W x H)	various - see dimensional drawings
Weight	18g open, approx 23g covered
Ambient Temperature storage	-40... + 155°C
operating	-40... + 125°C - see also Fig 1
Cover protection category	IP00, IP40, IP67 depending on version
Shock resistance	20g, 11ms
Vibration resistance	DA 1.5mm, 20-200Hz

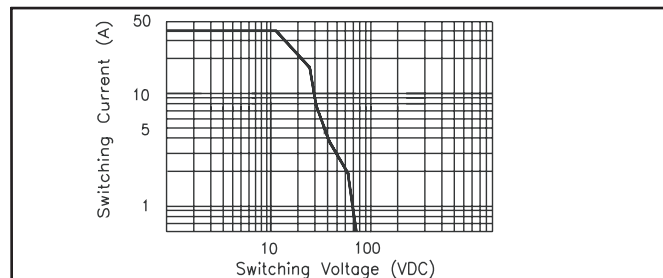
Maximum allowable ambient temperature

Fig. 1



Max. DC resistive load breaking capacity

Fig. 2



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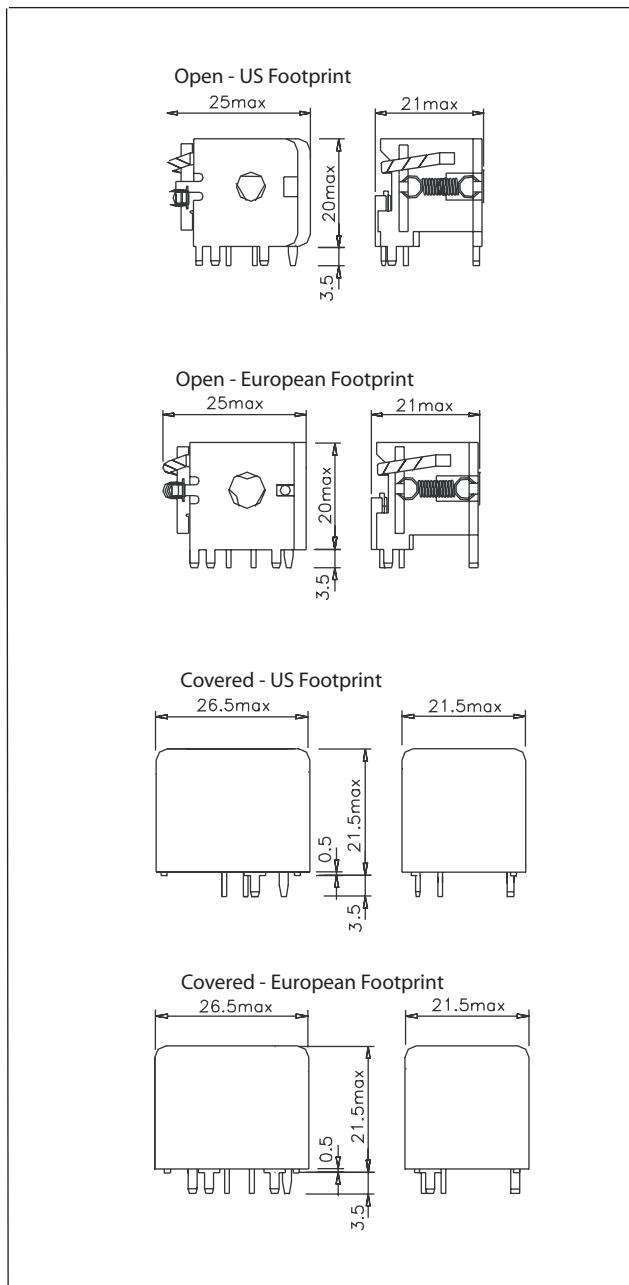
Coil Data - DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance ± 10% at 20°C Ω	Must Operate Voltage Max VDC	Must Release Voltage Min VDC
1006	6	19	3.3	0.6
1012	12	90	6.8	1.2
1024	24	362	13.9	2.4

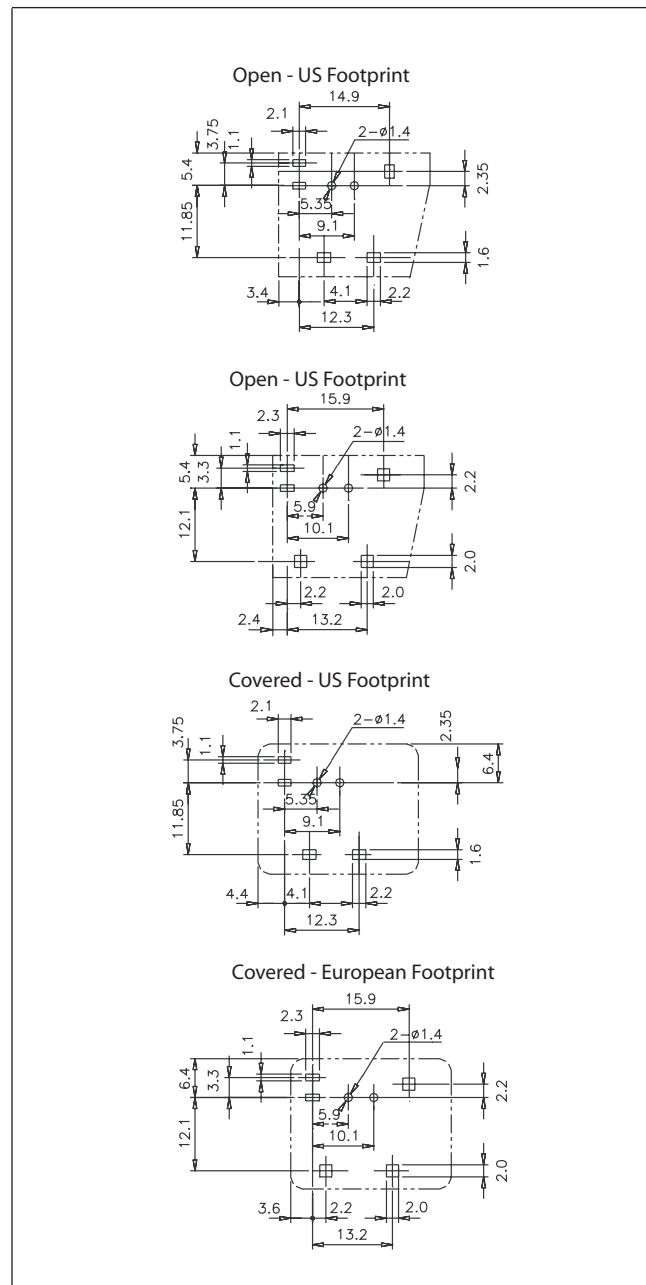
Overall dimensions

Fig. 3



PCB mounting dimensions

Fig. 4



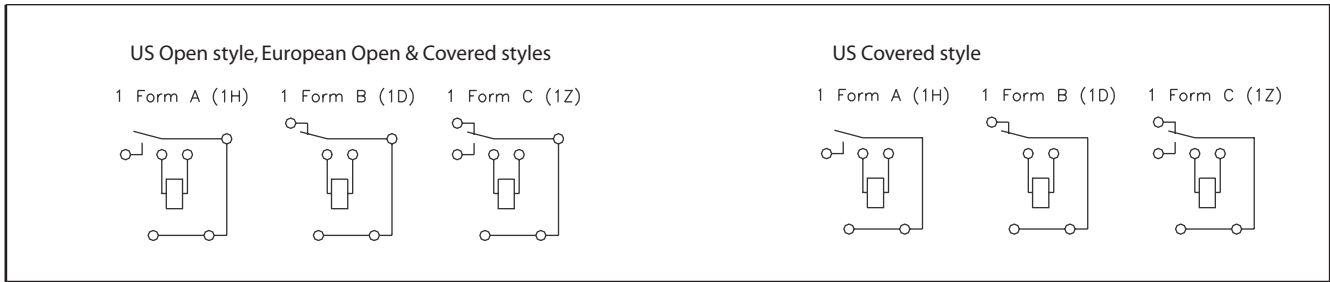
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## Wiring diagrams

Fig. 5



## Ordering codes

