ROHS









Up to 40A / 240VAC Continuous rating

AUK ( C EI

- 110VDC Maximum switching voltage
- · Industry standard style
- Cost effective

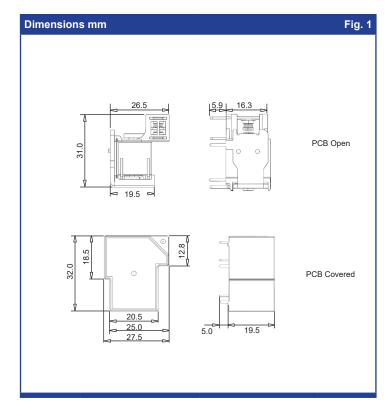
		CAC C SO US Compliant			
Contacts	Ordering Code				
Contact arrangement	SPST-NO (1NO); SPST-NC (1NC); SPDT (1C/O)				
Contact material	AgSnO₂; AgSnOlnO	D G 3 4 - 3 0 2 1 - 3 5 - 1 0 1 2			
Max. switching voltage AC/DC	250VAC, 110VDC				
Min. switching current / voltage	500mA / 12VDC	Series Coil code:			
Max. continuous current	SPST-NO: 40A / SPDT: 40A (NO), 30A (NC)	See tables			
Max. switching current	SPST-NO: 40A / SPDT: 40A (NO), 30A (NC)	Contact material 1 & 2			
Max. switching power	7200VA / 1100W	30: AgSnO₂ (40A/30A)			
Initial resistance	≤100mΩ max. at 0.1A/6VDC	70: AgSnOlnO			
Coil					
Nominal voltage	3110VDC; 12220VAC	Contact arrangement			
Must release voltage	$DC \ge 0.1U_n : AC \ge 0.3U_n$	11: SPDT (1 C/O)			
Operating range	See tables 1 & 2	21: SPST-NO (1NO)			
Rated power consumption	0.93W (DC), 1.2VA (AC)	31: SPST-NC (1NC)			
Insulation					
Insulation resistance	>100MΩ at 500VDC, 50%RH	Environmental protection			
Dielectric strength coil to contact	4000Vrms, 1min (50Hz)	1: No cover (open frame) PCB only**			
between open contacts	1500Vrms, 1min (50Hz)	3: In cover, sealed - IP67			
creepage / clearance - coil to contac	t ≥ 3mm	7: Covered, dust cover			
General Data					
Operating time typ.	15ms	Mounting & terminations			
Release time typ.	10ms	5: PCB only			
Electrical life ops.	1 x 10 <sup>5</sup> (1s on / 1s off, 20A 250VAC/30VDC)	6: Chassis mounting**, QC terminals for contacts and coil.			
Mechanical life (no load) ops.	1 x 10 <sup>6</sup> (300 ops per minute)	** Not available with no cover (Option 1 above)			
Environmental					
Ambient temperature operating	-40 to +125°C				
storage	-40 to +155°C				
Shock resistance functional	20g 11ms				
destructive	100g				
Vibration resistance	DA 1.5mm 10-55Hz				
Drop resistance	1M height drop on to concrete (sealed type only)				
Dimensions L x W x H	various - see dimensional drawings. (Figs 1 & 4)				
Weight approx.	≤ 36g				

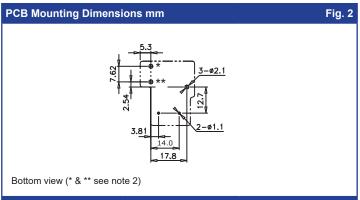
Specifications are subject to change without notice. E&OE.

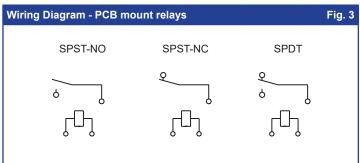


DC Coil Data						Table 1	
Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Nominal operating power	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)	
1003	3	10		2.25	0.30		
1005	5	28		3.75	0.50		
1006	6	40		4.50	0.60		
1009	9	90		6.75	0.90		
1012	12	160	0.93W	9.00	1.20	130% of nominal	
1018	18	360		13.50	1.80		
1024	24	640		18.00	2.40		
1048	48	2,560		36.00	4.80		
1110	110	13,445		82.50	11.00		
UL Class F Coil insulation standard. (Others to special order)							

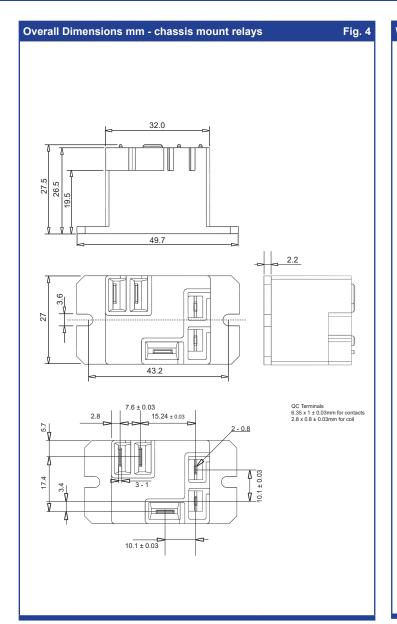
AC Coil Data						Table 2
Coil code	Nominal voltage (VAC)	Coil resistance Ω ±10%	Nominal operating power	Must operate voltage max. (VAC)	Must release voltage min. (VAC)	Max. allowable voltage (VAC)
5012	12	27	1.2VA	9.00	3.60	
5024	24	120		18.00	7.20	
5110	110	2,360		82.50	33.00	130% of nominal
5120	120	3,040		90.00	36.00	
5220	220	13,490		165.00	66.00	
UL Class F Coil insulation standard. (Others to special order)						

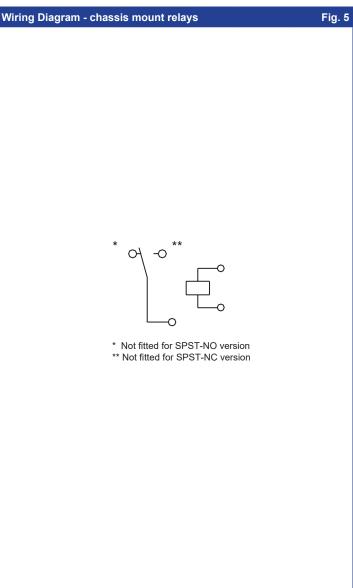






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## Notes

- 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 the SPST-NC version.
- 3) At an ambient temperature of 85°C, the maximum allowable coil voltage should be reduced to 72%.