



- · Reduced height micro plug-in relay
- Up to 40A 12VDC inrush capability
- Cost effective

			RoHS Compliant
Contacts		Ordering Code	
Contact arrangement	SPST-NO (1 Form A)		
Contact material	Ag alloy	D G 9 0 - 7 0 2 1 - 3 6	6 - 1 0 1 2
Max. switching voltage	DC 16VDC		
Min. switching current / voltage	1mA/1VDC (AgNi0.15)	Series	Coil code:
Rated load [C1 20A/12VDC		See table 1
Max. switching current m	ke 40A / 10 minutes	Contact material	
br	ak 15A	20: AgNi	
Voltage drop	0.2V/20A	70: AgSnOInO	
Coil			
Rated voltage	OC 12V	Contact arrangement	
Must release voltage	≥0.8VDC	21: SPST-NO (1 N/O, 1 Form A)	
Operating range	See Table 1		
Rated power consumption	1.2W	Environmental protection	
Insulation		3: In cover, sealed - IP67	
Insulation resistance	100MΩ at 500VDC, 50%RH	7: In cover, dust cover - IP54	
Dielectric strength coil to con	act 500Vrms, 1min		
contact to con	act 500Vrms, 1min	Mounting & terminations	
General Data		6: Flat blades	
Operating time	yp. 9ms		
Release time	yp. 7ms		
Electrical life	os. 1 x 10 ⁵		
Mechanical life	os. 1 x 10 ⁷		
Environmental			
Ambient temperature opera	ng -40 to +120°C		
stor	ge -40 to +155°C		
Shock resistance function	nal 20g, 11ms		
destruc	ive 100g		
Vibration resistance	DA 1.27mm 10-40Hz / 40-70Hz:5g		
	DA 0.5mm 100-500Hz: 10g		
Dimensions L x W	H 22.5 x 15.2 x 15.7mm (excluding terminals)		
Weight app	ox. 14g		

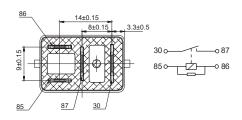


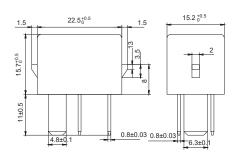
Coil Data Table 1						
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage Max. (VDC)	Allowable voltage (VDC)*	Must release voltage min. (VDC)	
1012	12	120	7.5	20.4	0.8	

^{*} At ambient temperature of 85°C, maximum allowable voltage should be reduced by 28%.

Overall Dimensions and Connection Diagram mm

Fig. 1





Notes

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Electrical life obtained at resistive or inductive load at 20A, 15VDC with suitable arc suppression circuit attached and with operating frequency of 1 op/sec.
- 3: Maximum make current refers to lamp load inrush current.