



- Industry Standard micro-ISO plug-in relay
- Up to 120A 12VDC inrush capability
- PCB Mounting option
- 40A Continuous current rating
- · Cost effective

		ROHS Compliant	1		
Contacts		Ordering Code			
Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)				
Contact material	AgNi0.15; AgNi90/10; AgSnOInO	D G 8 2 - 2 0 1 1 - 7 6 - 1 0 1 2 - H	B D		
Max. switching voltage DC	16VDC (current dependent - see Fig 3)				
Rated load (max. continuous current) DC1	40A/12VDC (NO); 30A/12VDC (NC)	Series Coil code:			
Max. switching current <sup>3</sup> make	90A (120A:AgSnOInO) (NO); 45A (NC)	See table 1			
break	40A (NO); 30A (NC)	Contact material			
Minimum load	AgNi0.15: 0.1A/12VDC, AgSnOInO: 0.5A/12VDC	20: AgNi 90/10			
Initial resistance	50mΩ, max. at 0.1A/6VDC	70: AgSnOlnO			
Coil		80: AgNi 0.15			
Nominal voltage DC	624V				
Must release voltage	≥0.1Un	Contact arrangement			
Operating range of supply voltage	See table 1	11: SPDT (1 C/O, 1 Form C)			
Power consumption (approx.) DC	1.2W (SPST-NO)/1.5W (SPDT);1.8W with resistor	21: SPST-NO (1 N/O, 1 Form A)			
Insulation					
Insulation resistance	100MΩ at 500VDC, 50%RH	Environmental protection			
Dielectric strength coil to contact	500Vrms, 1min	3: In cover, sealed IP67			
open contacts	500Vrms, 1min	7: In cover, dust cover IP54			
General Data					
Operating time typ.	9ms	Mounting & terminations			
Release time typ.	7ms	5: For PCB			
Electrical life <sup>2</sup> ops.	2 x 10 <sup>5</sup>	6: Flat blades			
Mechanical life ops.	1 x 10 <sup>7</sup>				
Environmental		Coil options			
Environmental protection	IP54, IP67 optional	Blank: UL Class F coil insulation			
Ambient temperature operating	-40 to 125°C (Derate above 85°C - consult factory)	H: UL Class H insulation for higher ambient			
storage	-40 to +155°C	temperatures consult factory			
Shock resistance functional	20g, 11ms				
destructive	100g	Parallel component options			
Vibration resistance	DA 1.27mm 10-40Hz / 40-70Hz:5g	Blank: No option			
	DA 0.5mm 100-500Hz: 10g	R: Resistor (see table 1 for values)			
Dimensions L x W x H	23.5 x 15.7 x 26.0 mm (excluding terminals)	D: Diode (+85/+86)			
Weight approx.	Plug-in: 21g / PCB: 19g	DR: Diode reversed (-85/+86) - standard			
		BD: Bidirectional diode			

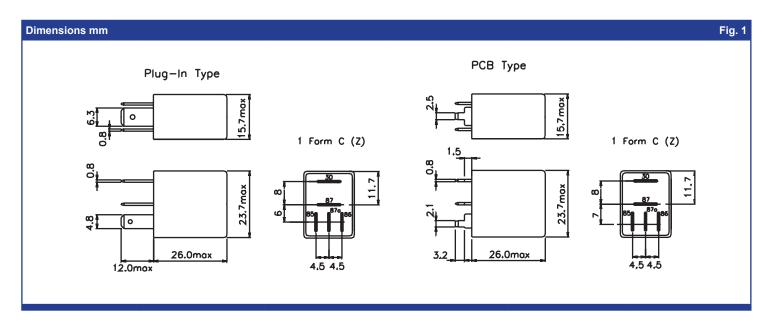
Specifications are subject to change without notice. E&OE.

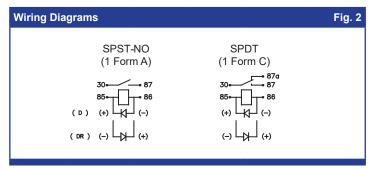


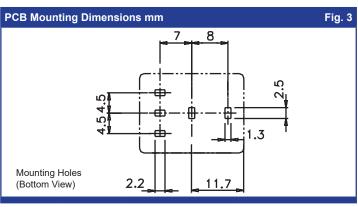


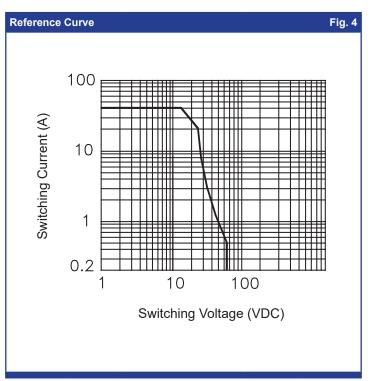


Coil Data								Table 1		
Coil code	Nominal voltage (VDC)	Coil Resistance (Ω) ±10%		Must operate	Allowable voltage (VDC)*		Must release	Parallel		
		1 Form A	1 Form C	voltage max. (VDC)	1 Form A	1 Form C	voltage min. (VDC)	Resistor (optional) ( $\Omega$ )		
1006	6	32	25	3.6	10.4	9.2	0.6	170		
1012	12	123	97	7.2	20.4	18.1	1.2	680		
1024	24	483	384	14.4	40.4	36.0	2.4	2720		
* At ambient temperature of 85°C, maximum allowable voltage should be reduced by 28%										









## 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 40A, 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.

Specifications are subject to change without notice. E&OE