



- Up to 120A / 250VAC Continuous rating
- · Custom termination options inc shunts
- Single coil & twin coil latching
- Utility / Prepayment meters
- Automotive / Electric vehicle battery

RoHS

• IEC 62055-31UC3

		Compliant		
Contacts	Ordering Code			
Contact arrangement	SPST-NO, SPST-NC (as delivered condition)			
Contact material	AgSnO ₂	DG79B-3021-70V-TL12-P001		
Max. switching voltage	250VAC / 20VDC			
Min. switching current / voltage	500mA/12VDC	Series Coil code:		
Max. continuous current	120A	See table 1		
Short circuit carrying capacity	3000A (Utilization Category UC3)	Model Type		
Max. switching power	DG79B: 30000VA	DG79B: 120A rating		
Initial resistance	≤100mΩ, max. at 0.1A/6VDC (typ. 0.25 to 0.5mΩ)			
Coil				
Rated voltage	548VDC	Contact material		
Operating range of supply voltage	See table 1	30: AgSnO ₂		
Rated power consumption single coi	2.3W			
Rated power consumption twin coi	4.6W	Contact arrangement		
Insulation (EN 60664-1)		21: SPST-NO (1NO)*		
Insulation resistance	>1000MΩ at 500VDC, 50%RH	31: SPST-NC (1NC)*		
Dielectric strength coil to contac	t 4000Vrms, 1min (50Hz)	* As delivered condition		
between open contact	s 2000Vrms, 1min (50Hz)			
Creepage & Clearanc	e >8mm	Environmental protection		
General Data		7: Covered, dust cover		
Operating time max	. 20ms			
Release time max	. 20ms	Mounting & terminations*		
Electrical life (resistive) ops	. 1 x 10 ⁴	0H: PCB coil terminals + horizontal power terminals.		
Mechanical life ops	. 5 x 10⁵	0V: PCB coil terminals + vertical power terminals.		
Environmental		1V: PCB coil terminals + vertical power terminals.		
Ambient temperature operating	-40 to 85°C (Class F)	2V: PCB coil terminals + vertical power terminals with integral		
storage	-40 to 85°C	shunt. (Use with 'P' custom option to define shunt).		
Humidity	95%RH, 40°C	* Custom terminations available. Please contact factory.		
Shock resistance functiona	98m/s² (10g)			
destructive 980m/s ² (100g)		Options		
Vibration resistance	DA 1.5mm 10-55Hz	Blank: Standard		
Dimensions L x W x H	52 x 43 x 22mm	P*** : Custom (*** = unique identifier)		
Weight approx	. 80g (depending on options)			

DG79B Series Industrial Bistable (Latching) Power Relay

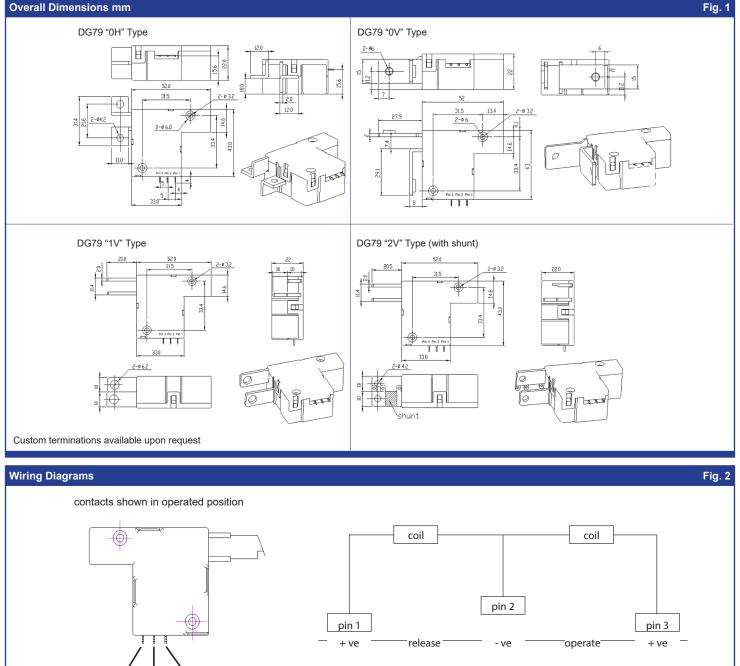
DC Coil Data Table '							
Coil volt	age code	Nominal voltage	Coil resistance (Ω) ±10%		Must operate	Recommended	
Single coil	Twin coil*	(VDC)	Single coil (2.3W)	Twin coil* (4.6W)	voltage (VDC)	operate pulse length	
SL05	TL05	5	11	5.5 + 5.5	≥ 3.75		
SL09	TL09	9	35	17.5 + 17.5	≥ 6.75		
SL12	TL12	12	63	31 + 31	≥ 9.0	50ms	
SL24	TL24	24	250	125 + 125	≥ 18.0		
SL48	TL48	48	1000	500 + 500	≥ 36.0]	

* NB: Latch & Reset coils must not be powered simultaneously.

Twin Coil type can be used as single coil type by ignoring centre connection (Pin 2 - see Wiring Diagram, Fig. 3).

Other coil voltages available to special order, subject to minimum order quantity.

Overall Dimensions mm



Notes:

1) All parameters, unless otherwise specified, are measured at an ambient temperature of 23°C.

pin 1 pin 2 pin 3