# DG78 Series Industrial Bistable (Latching) Power Relay

## **NOT FOR NEW DESIGN**

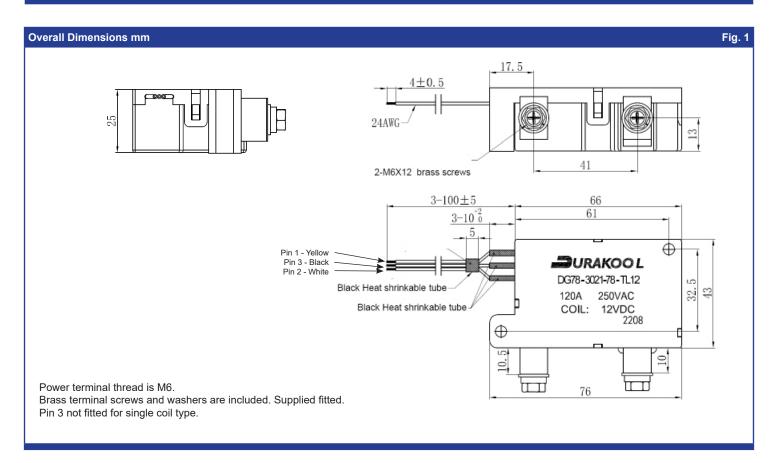


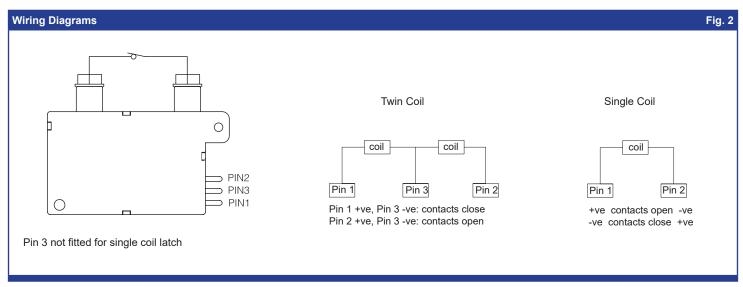
- Up to 120A / 250VAC Continuous rating
- Single coil & twin coil latching
- Utility meters
- Automotive / Electric vehicle battery

				RoHS Compliant	
Contacts			Ordering Code		
Contact arrangement		SPST			
Contact material		AgSnO <sub>2</sub>	D G 7 8 - 3 0 2 1 - 7 8 - 7	Γ L 1 2 -	
Max. switching voltage		250VAC / 30VDC			
Min. switching current / voltage		500mA/12VDC	<u>Series</u>	Coil code:	
Max. continuous current		120A		See table 1	
Max. switching current		120A	Contact material		
Max. switching power		30000VA	30: AgSnO <sub>2</sub>		
Initial resistance		≤ 10mΩ, max. at 0.1A/6VDC			
Coil			Contact arrangement		
Rated voltage		948VDC	21: SPST*		
Operating range of supply voltage		See table 1	* Delivered with contacts		
Rated power consumption	single coil	1.8W	in the closed position		
Rated power consumption	twin coil	3.6W			
Insulation (EN 60664-1)			Environmental protection		
Insulation resistance		>1000MΩ at 500VDC, 50%RH	7: Covered, dust cover		
Dielectric strength	coil to contact	4000Vrms, 1min (50Hz)			
between open contacts		1800Vrms, 1min (50Hz)	Mounting & terminations*		
Creepage & Clearance		8mm	8: PCB / wire coil terminals +		
General Data			+screw terminals for contacts		
Operating time	max.	30ms	* Terminals are highly customizable.		
Release time	max.	30ms	Please contact factory.		
Electrical life (resistive)	ops.	6 x 10 <sup>3</sup>			
Mechanical life	ops.	5 x 10⁵	<u>Options</u>	<u>Options</u>	
Environmental			Blank: Standard		
Ambient temperature operating		-40 to 70°C (Class F)	P***: Custom (*** = unique identifier)		
	storage	-40 to 70°C			
Humidity		98%RH, 40°C			
Shock resistance	functional	100m/s² 11ms			
	destructive	1000m/s <sup>2</sup>			
Vibration resistance		DA 1.5mm 10-55Hz			
Dimensions	LxWxH	76 x 43 x 25mm			
Weight	approx.	≤ 180g			



DC Coil Data Table 1									
Coil voltage code		Nominal voltage	Coil resistance (Ω) ±10%		Must operate	Recommended			
Single coil	Twin coil*	(VDC)	Single coil (1.8W)	Twin coil* (3.6W)	voltage (VDC)	operate pulse length			
SL09	TL09	9	45	22.5 + 22.5	≥ 6.75	100ms			
SL12	TL12	12	80	40 + 40	≥ 9				
SL24	TL24	24	320	160 + 160	≥ 18				
SL48	TL48	48	1280	640 + 640	≥ 36				
* NB: Latch & Reset coils must not be powered simultaneously.									





DG78 24 Oct 25CM

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

Specifications are subject to change without notice. E&OE