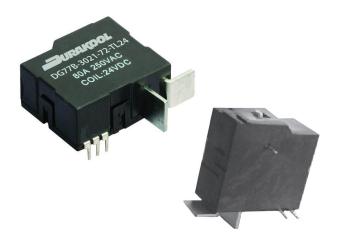
## DG77B Series Industrial Bistable (Latching) Power Relay



## **NOT FOR NEW DESIGN**

- Up to 80A / 250VAC Continuous rating
- Single coil & twin coil latching
- Utility meters
- Automotive / Electric vehicle battery

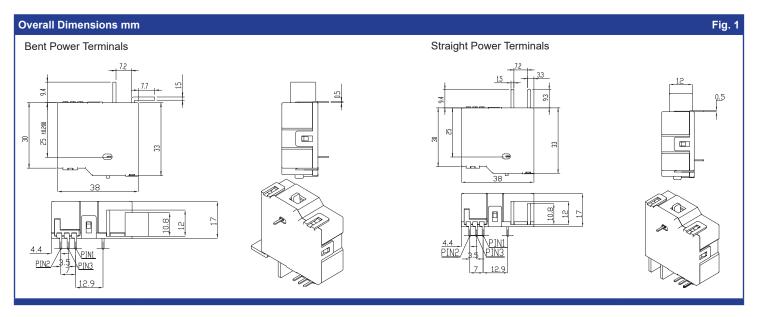
			RoHS Compliant
Contacts			Ordering Code
Contact arrangement		SPST-NO (1 NO)	
Contact material		AgSnO <sub>2</sub>	D G 7 7 B - 3 0 2 1 - 7 2 - T L 2 4 -
Max. switching voltage		250VAC / 20VDC	
Min. switching current / voltage		500mA/12VDC	Series Coil code:
Max. continuous current		80A	See table 1
Max. switching current		80A	Contact rating
Max. switching power		80A: 20000VA / 2240W	B: 80A
Initial resistance		≤ 100mΩ, max. at 0.1A/6VDC	
Coil			
Rated voltage		948VDC	Contact material
Operating range of supply voltage		See table 1	30: AgSnO <sub>2</sub>
Rated power consumption	single coil	80A: 1.5W	
Rated power consumption	twin coil	80A: 3W	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 conta		4000Vrms, 1min (50Hz)	* As delivered condition
between open contacts		1500Vrms, 1min (50Hz)	
С	reepage & Clearance	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 <sup>4</sup>	1: PCB coil terminals + weld terminals for contacts
Mechanical life	ops.	1 x 10 <sup>6</sup>	Straight power terminals
Environmental			2: PCB coil terminals + weld terminals for contacts
Ambient temperature	operating	-40 to 70°C (Class F)	Bent power terminals
	storage	-40 to 70°C	* Terminals are highly customizable.
Humidity		98%RH, 40°C	Please contact factory.
Shock resistance	functional	100m/s <sup>2</sup> 11ms	
	destructive	1000m/s <sup>2</sup>	<u>Options</u>
Vibration resistance		DA 1.5mm 10-55Hz	Blank: Standard
Dimensions L x W x H		38.6 x 33 x 17mm	P***: Custom (*** = unique identifier)
Weight	approx.	≤ 45g	

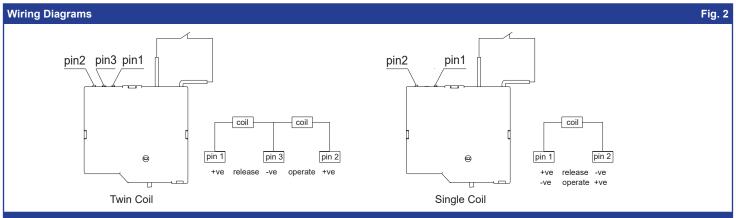
Specifications are subject to change without notice. E&OE.

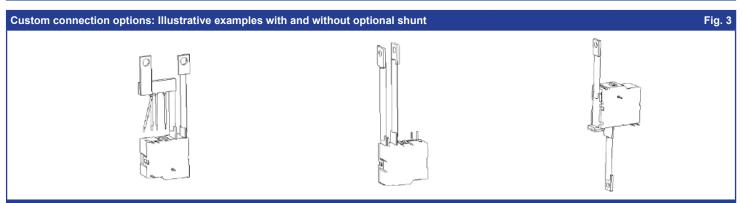




DC Coil Data Table 1										
Coil voltage code		Nominal voltage	Coil resistance (Ω) ±10%		Must operate	Recommended				
Single coil	Twin coil*	(VDC)	Single coil (1.5W)	Twin coil* (3.0W)	voltage (VDC)	operate pulse length				
SL09	TL09	9	54	27.0 to 27.0	≥ 6.75	50ms				
SL12	TL12	12	96	48.0 + 48.0	≥ 9					
SL24	TL24	24	384	192 + 192	≥ 18					
SL48	TL48	48	1536	768 + 768	≥ 36					
* NB: Latch & Reset coils must not be powered simultaneously.										







DG77B 24 Oct 25CM

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

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