

RoHS Compliant



- Up to 90A 250VAC continuous rating
- PCB mounting
- Twin coil latching
- UC2 for utility meters & power conditioning
- Automotive / small electric vehicle battery
- Highly customisable terminals

Contracto			Compliant		
Contacts	ODOT Bistelle (shinesed in NO. 1.1.)	Ordering Code			
Contact arrangement	SPST Bistable (shipped in NC state)				
Contact material	AgSnO ₂	D G 7 6 C - 5 0 3 1 - 3 0 V - S L 1 2 -			
Rated current AC1	90A / 250VAC				
Max. switching voltage	250VAC	Series	Coil code:		
Min. switched load	500mA / 12VDC		See table 1		
Initial contact resistance	≤ 100mΩ at 0.1A/6VDC	Contact material			
Short circuit current UC2	2700A for 10ms (IEC62055-31)	50: AgSnO ₂			
Max. operating frequency rated load	360 cycles/hour				
Coil		Contact arrangement			
Operating range DC	6 48VDC See Table 1	31: SPST-NC *			
Rated power consumption DC	Twin:3W; Single: 1.5W	* As shipped			
Operate / Release time	≤ 30ms to fully stable*				
* In order for the contacts to be stable the coil voltage should reach the rated voltage. The pulse width should be 5 times the operating time to ensure proper change of state.		Mounting & terminations			
Insulation		30V: Straight weld terminals for power terminals			
Insulation resistance	>100 MΩ at 500VDC	35V: PCB mounting, coil & power terminals			
Dielectric strength coil to contact	4000V _{rms} (50/60Hz, 1min, <1mA leakage)				
open contacts	3500V _{rms} (50/60Hz, 1min, <1mA leakage)	Reserved for custom modifications			
Contact Gap	≥ 1.25mm	P*** Unique identifier - 3 digits assigned			
Creepage & Clearance distance (coil to contact)	≥ 8mm	P001: UL V0 flammability rating			
General Data					
Electrical life at full rated load cycles	1 x 10 ⁴				
Mechanical life cycles	> 1 x 10 ⁶				
Environmental					
Ambient temperature operating	-40 to +85°C				
storage	0 to +40°C (RH = 20% ~ 80%)				
Solder temperature	260°C ±5°C / 10s ±1s				
Relative humidity operating	5% ~ 98% RH @ 40°C				
Mechanical shock endurance	98m/s²(10g)				
Vibration resistance	10 ~ 55Hz, 1.5mm double amplitude				
Dimensions L x W x H	38 x 16.5 x 30mm				
Weight approx.	45g varies according to options				

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

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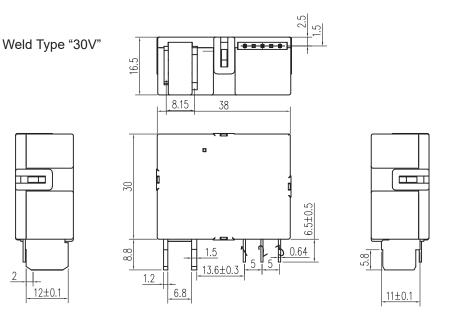
DG76C Series Bistable (Latching) Power Relay

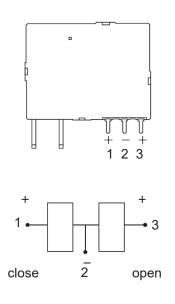
Coil Data						Table '
Coil code		Nominal voltage	Coil resistance (Ω) ±10%		Must operate	Operate pulse
Single coil	Twin coil *	(VDC)		voltage (VDC)	length	
SL05	TL05	5	16	8.0 + 8.0	≥ 3.5	≥ 50ms
SL06	TL06	6	24	12.0 + 12.0	≥ 4.2	
SL09	TL09	9	54	27.0 + 27.0	≥ 6.3	
SL12	TL12	12	96	48.0 + 48.0	≥ 8.4	
SL24	TL24	24	384	192.0 + 192.0	≥ 16.8	
SL48	TL48	48	1536	768.0 + 768.0	≥ 33.6	

*NB. Twin coil types: Latch & Reset coils must not be powered simultaneously. Do not energize the coil for longer than 1 minute to avoid possible damage to the coil.

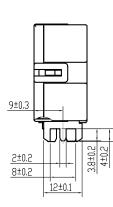
Dimensions

Fig. 1

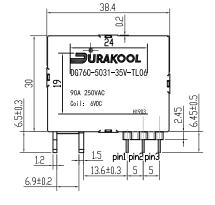


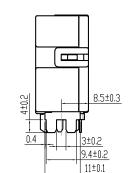


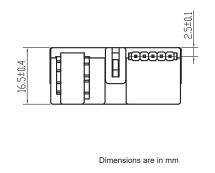
PCB Type "35V"



DG76C 100622JHM







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