DG79 / DG79B

industrial bistable (latching) power relay





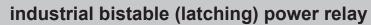
- Up to 120A /240VAC continuous rating
- Custom Termination options inc shunts
- Single Coil & Twin Coil Latching
- Utility / Prepayment meters
- Automotive / Electric Vehicle Battery
- IEC 62055-31UC3

Contacts

Contact number & arrangement	SPST-NO, SPST-NC (as delivered condition)		
Contact material	AgSnO ₂		
Max. switching voltage	250VAC / 30VDC		
Min. switching current / voltage	500mA/12VDC		
Max. continuous current	DG79: 100A / DG79B: 120A		
Short circuit carrying capacity	3000A (Utilization Category UC3)		
Max. switching power	DG79: 25000VA / DG79B: 30000VA		
Initial resistance	\leq 100mΩ, max. at 0.1A/6VDC (typically 0.25 to 0.5mΩ)		
Coil			
Rated voltage	548VDC		
Operating range of supply voltage	See coil table 1		
Rated power consumption Single coil	2.3W		
Twin coil	4.6W		
Insulation			
Insulation resistance	>1000MΩ at 500VDC, 50%RH		
Dielectric strength			
coil to contact	4000Vrms, 1min (50Hz)		
between open contacts	1800Vrms, 1min (50Hz)		
Creepage & Clearance	>8mm		
General Data			
Operating time (max.) mS	20		
Release time (max.) mS	20		
Electrical Life ops	1 x 10 ⁴		
Mechanical life ops	1 x 10 ⁶		
Dimensions L x W x H	52 x 43 x 22mm (see drawings for detail)		
Weight	approx. 80g (depending on options)		
Ambient temperature storage	-40 to 85°C		
operating	-40 to 85°C (Class F)		
Shock resistance	Functional: 100m/s² 11mS; Destructive: 1000m/s²		
Vibration resistance	10-55Hz: DA 1.5mm		
Humidity	98%RH, 40°C		



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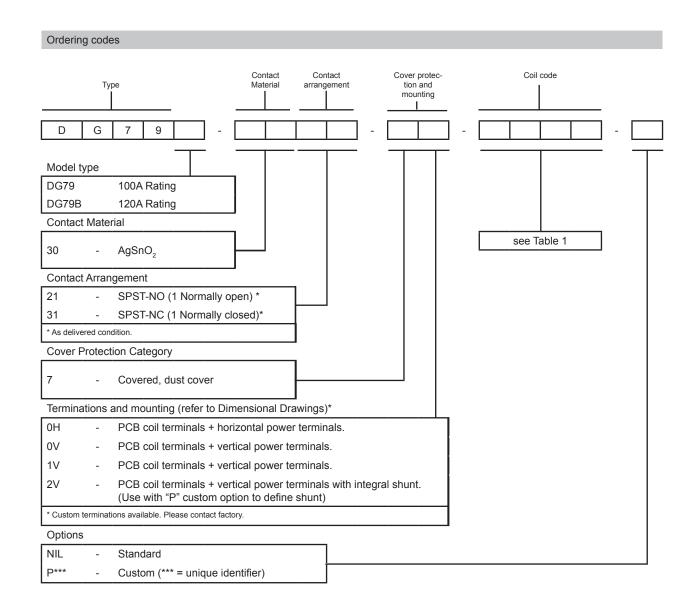
Coil Data Table 1

DC Coil

Coil Volta	age Code	Naminal Valtage	Coil Resistance (Ω) ±10%		Must operate	Operate pulse
Single Coil	Twin Coil*	Nominal Voltage (VDC)	Single Coil (2.3W)	Twin Coil* (4.6W)	voltage (VDC)	length (mS)
SL05	TL05	5	22	11 + 11	≥3.75	
SL09	TL09	9	35	18 + 18	≥ 6.75	
SL12	TL12	12	63	31 + 31	≥ 9.0	100
SL24	TL24	24	250	125 + 125	≥ 18.0	
SL48	TL48	48	1002	501 + 501	≥ 36.0	

^{*} NB: For twin coil, 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.



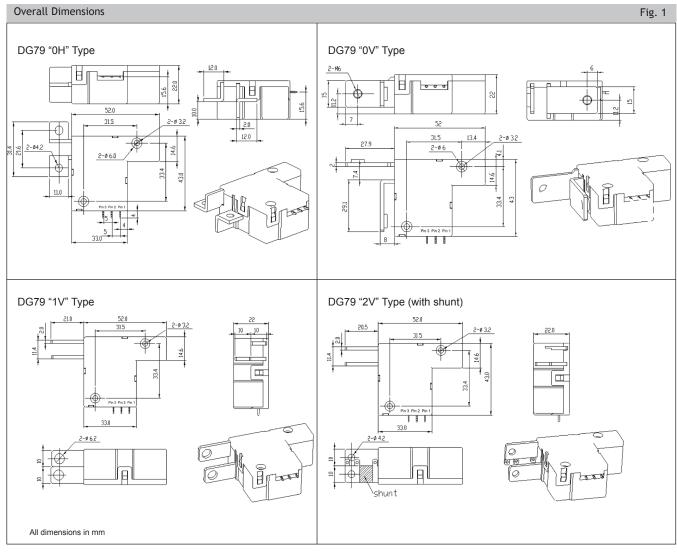


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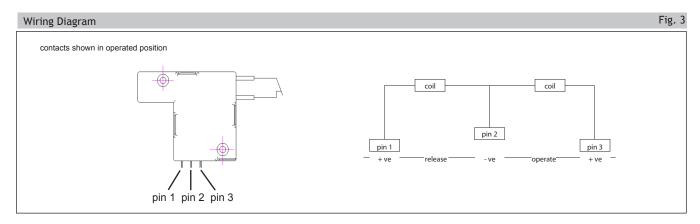
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Custom terminations available upon request



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

