



- Up to 120A / 250VAC Continuous rating
- · Custom termination options inc shunts
- Single coil & twin coil latching
- Utility / Prepayment meters
- Automotive / Electric vehicle battery
- IEC 62055-31UC3

|                                   |                   |  |   | RoHS<br>Compliant     |  |
|-----------------------------------|-------------------|--|---|-----------------------|--|
| Contacts                          |                   |  | Ordering Code   |                       |  |
| Contact arrangement               |                   | SPST-NO, SPST-NC (as delivered condition)      |   |                       |  |
| Contact material                  |                   | AgSnO <sub>2</sub>                             | DG79 - 3 0 2 1 - 7 0  | V - T L 1 2 - P001    |  |
| Max. switching voltage            |                   | 250VAC / 20VDC                                 |   |                       |  |
| Min. switching current / voltage  |                   | 500mA/12VDC                                    | <u>Series</u>   | Coil code:            |  |
| Max. continuous current           |                   | 100A   |   | See table 1           |  |
| Short circuit carrying capacity   |                   | 3000A (Utilization Category UC3)               | Model Type  |                       |  |
| Max. switching power              |                   | DG79: 25000VA                                  | DG79: 100A 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 <sub>2</sub>  |                       |  |
| Rated power consumption           | single coil       | 2.3W   |   |                       |  |
| Rated power consumption           | twin coil         | 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 contact   | 4000Vrms, 1min (50Hz)                          | * As delivered condition  |                       |  |
| betw                              | een open contacts | 2000Vrms, 1min (50Hz)                          |   |                       |  |
| Cree                              | page & Clearance  | >8mm   | Environmental protection  |                       |  |
| General Data                      |                   |  | 7: Covered, dust cover  | <u>L</u>              |  |
| Operating time                    | max.              | 20ms   |   |                       |  |
| Release time                      | max.              | 20ms   | Mounting & terminations*  |                       |  |
| Electrical life (resistive)       | ops.              | 1 x 10 <sup>4</sup>                            | 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 opt                                 | ion to define shunt). |  |
| Humidity                          |                   | 95%RH, 40°C                                    | * Custom terminations available. Please contact factory.        |                       |  |
| Shock resistance                  | functional        | 98m/s² (10g)                                   |   |                       |  |
|                                   | destructive       | 980m/s² (100g)                                 | <u>Options</u>  |                       |  |
| 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)                     |   |                       |  |

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



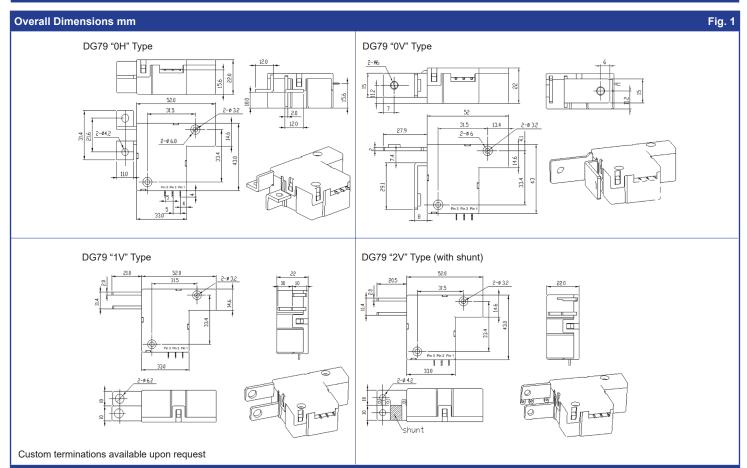


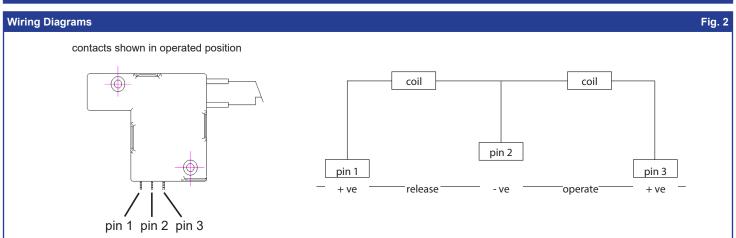
| DC Coil Data Table 1 |            |                 |                          |                   |               |                         |  |  |  |
|----------------------|------------|-----------------|--------------------------|-------------------|---------------|-------------------------|--|--|--|
| Coil voltage code    |            | Nominal voltage | Coil resistance (Ω) ±10% |                   | Must operate  | Recommended             |  |  |  |
| Single coil          | Twin coil* | (VDC)           | Single coil (2.3W)       | Twin coil* (4.6W) | voltage (VDC) | operate pulse<br>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        |                         |  |  |  |

<sup>\*</sup> 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.





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

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