

DG56A

automotive relays

DURAKOOL



- General purpose automotive or industrial relays.
- Ideal for DC motor control or lights.
- Heated windows, sunroof motors, vehicle alarms
- Sn plated, copper terminals for high continuous DC current capacity.
- Industry standard Mini-ISO terminals.
- PCB versions available.
- RoHS Compliant.

Contacts

Contact number & arrangement	SPST-NO (1 Form A), SPDT (1 Form C), SPST-NC (1 Form B), SPST-DM (1 Form U)			
Contact material	AgSnO ₂			
Max. switching voltage	DC	75VDC - current dependent. Contact factory for voltages above 24VDC		
Contact rating (resistive)		SPST-NO	SPST-NC	SPDT
		40A (14VDC), 20A (24VDC)	30A (14VDC), 20A (24VDC)	40A / 30A (14VDC), 20A / 15A (24VDC)
Max. switching current (inrush) - make		120A	45A	120A / 45A
Rated power		630W		
Min. switching current		100mA/6VDC		
Initial contact resistance		≤30mΩ, max. at 0.1A/6VDC (IEC 61810-7 / 4.12)		

Coil

Rated voltage	DC	6, 12, 24
Operating range of supply voltage		See coil table 1
Rated power consumption		1.6W (1.8W with resistor)

Insulation

Insulation resistance		100MΩ at 500VDC, 50%RH, 25°C (IEC61810-5 / Item 7)
Dielectric strength	coil to contact	750Vrms / 1 min (IEC 60255-5 Item 6)
	contact to contact	500Vrms / 1 min (IEC 60255-5 Item 6)

General Data

Operating time		≤7msec
Release time		≤5msec
Electrical Life	ops	1 x 10 ⁶ (IEC61810-7 / Item 4.30)
Mechanical life	ops	1 x 10 ⁷ (IEC61810-7 / Item 4.31)
Dimensions	L x W x H	26.5 x 26.5 x 24.5mm (excluding terminals) - see drawings for more information
Weight		31 - 36g approx. depending on style and mounting
Ambient temperature	operating	-40 to 125°C (Derate above 85°C - consult factory)
	storage	-40 to 155°C
Shock resistance	Destructive	196m/s ² (20g)
	Functional	98m/s ² (10g)
Vibration resistance		1.5mm, 10 to 40Hz
Cover protection category		IP54 Dust cover, IP67 Fully sealed (optional)

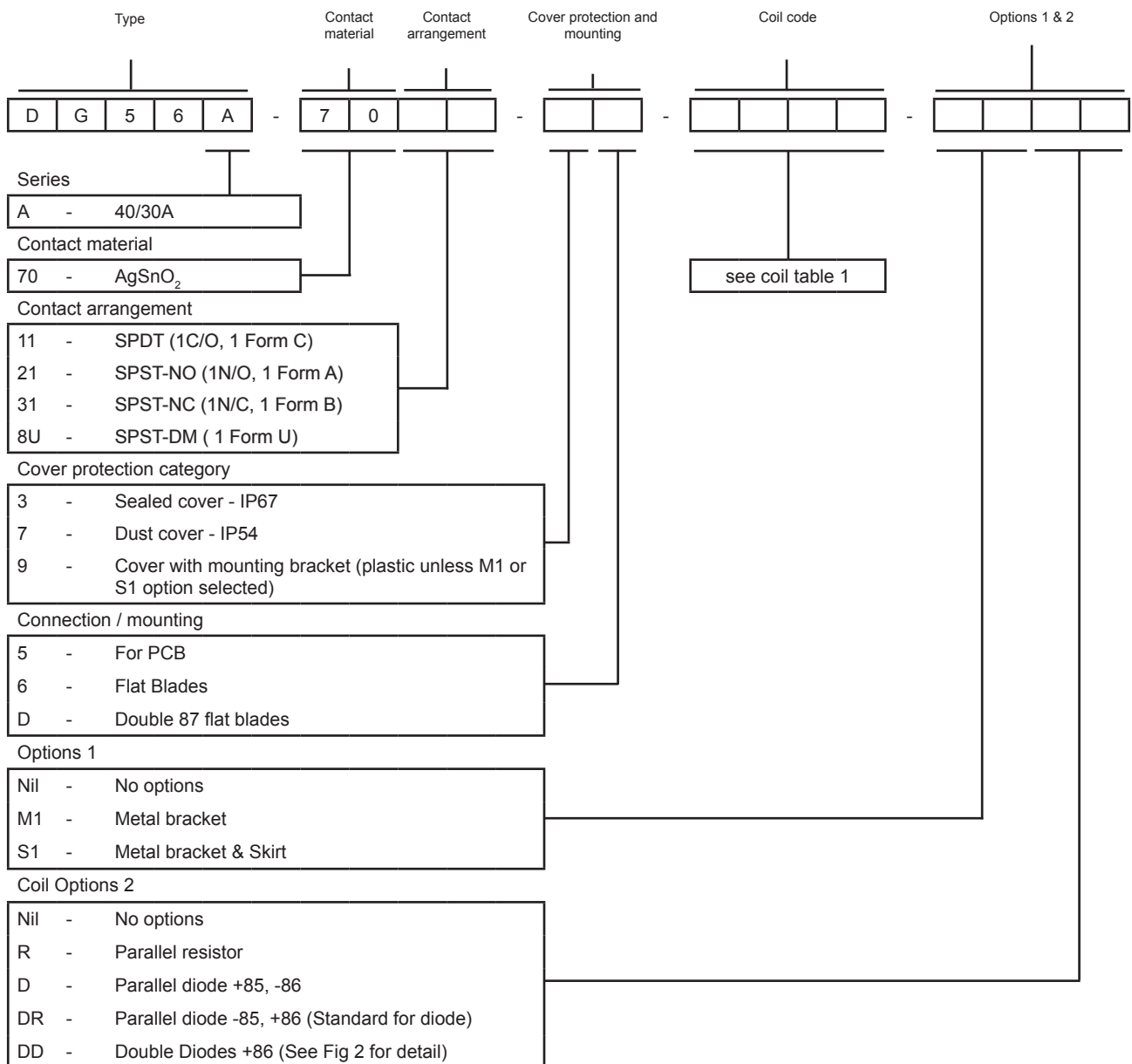
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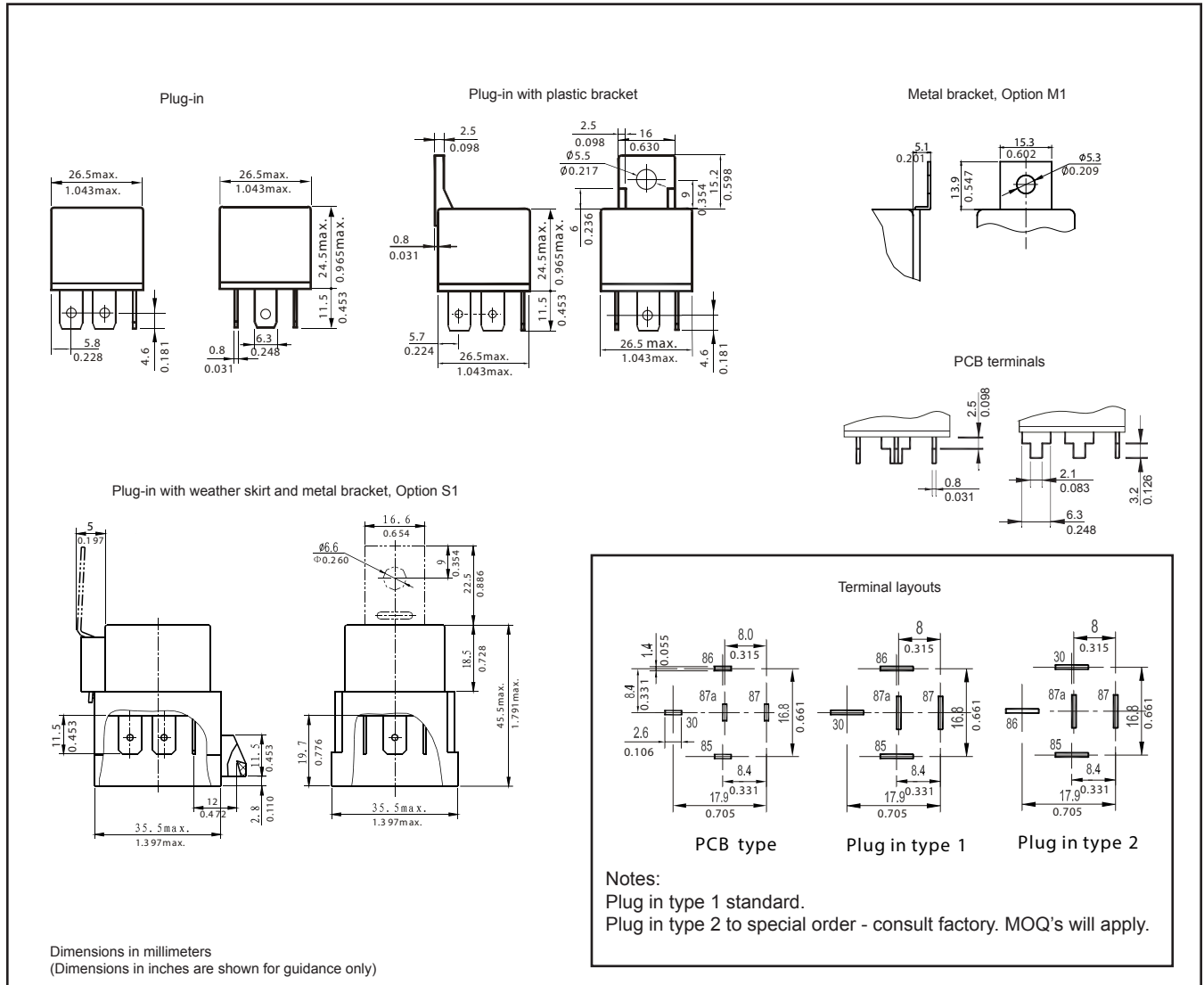
Coil Data							Table 1
Coil voltage code	Nominal voltage (VDC)	Coil resistance ($\Omega \pm 10\%$)	Must operate voltage max. (VDC)	Maximum Allowable voltage (VDC)		Must release voltage min. (VDC)	Parallel Resistor ($\Omega \pm 5\%$ (when fitted))
				23 °C	85 °C		
1006	6	22.5	3.9	10.1	7.6	0.6	180
1012	12	90	7.8	20.2	15.6	1.2	680
1024	24	360	15.6	40.5	31.5	2.4	2700

Ordering codes



Overall Dimensions

Fig. 1



Connection diagrams

Fig. 2

