

DG38L

pcb power relay

DURAKOOL



- Up to 45A switching capability
- 80VDC maximum switching voltage
- Improved DG38 with magnetic arc quench
- PCB & QC terminals
- RoHS Compliant

Contacts

Contact number & arrangement		SPST-NO (1 Form A), SPDT (1 Form C)		
Contact material		AgSnInO		
Max. switching voltage		28VDC / 277VAC (optionally 80VDC, SPST-NO only)		
Min. switching current / voltage		500mA/12VDC		
		SPST-NO	SPDT	
			NO Contact	NC Contact
Max. continuous current (240VAC/28VDC)		45A	30A	15A
Max. switching current		45A (20A @ 80VDC)	30A	15A
UL Rating	Motor	240VAC	3HP	2HP
		120VAC	1.5HP	0.75HP
LRA/FLA		240VAC	120A/45A	75A/30A
		120VAC	147A/33A	75A/30A
Initial resistance		50mΩ, max. at 0.1A/6VDC		
Coil				
Rated voltage	DC	5...110VDC		
Must release voltage		≥0.1Un		
Operating range of supply voltage		See coil table 1		
Rated power consumption	DC	0.9W		
Insulation				
Insulation resistance		50mΩ at 500VDC, 50%RH		
Dielectric strength		coil to contact / open contacts 1500Vrms, 1min. (Contact Gap ≥1.2mm for P674)		
General Data				
Operating time (max.)	ms	15		
Release time (max.)	ms	10		
Electrical Life	ops	1.5 x 10 ⁴		
Mechanical life	ops	1 x 10 ⁷		
Dimensions	L x W x H	32.2 x 27.5 x 28mm		
Weight		32g (approx)		
Ambient temperature	storage	-40 to 130°C		
	operating	-55 to 85°C		
Shock resistance		Functional: 10g 11mS; Destructive: 100g		
Vibration resistance		DA 1.5mm; 10-50Hz		

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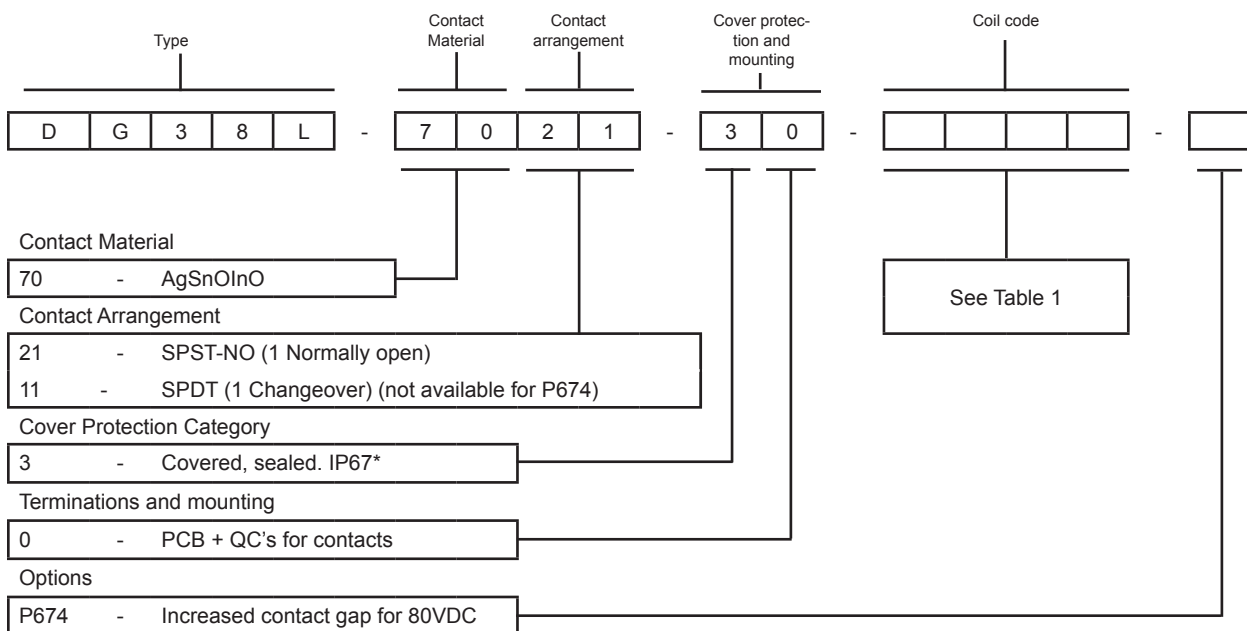


Coil Data

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1005	5	27	3.75	0.5
1006	6	40	4.50	0.6
1009	9	97	6.75	0.9
1012	12	155	9.00	1.2
1024	24	660	18.00	2.4
1048	48	2560 $\pm 15\%$	36.00	4.8

Ordering codes



* For optimum electrical life, sealed relays should be vented after board washing.

Overall Dimensions, Mounting Holes & Wiring Diagram

Fig. 1

