

DURAKOOL

DG38L Series PCB & Industrial Power Relay



- Up to 45A switching capability
- 80VDC maximum switching voltage
- Improved DG38 with magnetic arc quench

UK C C TO ROHS

PCB & QC terminals

					CAC E	US Comp
Contacts					Ordering Code	E343443"
Contact arrangement		SPST-NO (1 Form A); SPDT (1 Form C)				
Contact material		AgSnOInO			D G 3 8 L - 7 0 2 1	- 3 0 - 1 0 1
Max. switching voltage		28VDC, 277VAC, (optionally 80VDC, SPST-NO only)				
Min. switching current / voltage		500mA / 12VDC			<u>Series</u>	Coil co
		ODOT NO	SPDT			See tab
		SPST-NO	NO Contact	NC Contact	Contact material	
Max. continuous current		45A	30A	15A	70: AgSnOlnO	
Max. switching current		45A (20A@80VDC)	30A	15A		
Rating (not UL)	Motor 240VAC	3HP	2HP	0.75HP	Contact arrangement	
	Motor 120VAC	1.5HP	1.5HP	0.375HP	11: SPDT (1 C/O) not for P674	
	LRA/FLA 240VAC	120A/45A	75A/30A	30A/10.5A	21: SPST-NO (1 NO)	
	LRA/FLA 120VAC	147A/33A	75A/30A	30A/10.5A		
UL test rating 30A/28VDC 10K ops				Environmental protection		
Initial resistance		50mΩ max. at 0.1A/6VDC			3: In cover, sealed - IP67*	
Coil					* For optimum electrical life, sea	aled relays
Nominal voltage	nal voltage 5110VDC				should be vented after board v	washing.
Must release voltage		≥ 0.1U				
Operating range		See table 1			Mounting & terminations	
Rated power consumption		0.9W			0: PCB + QC Terminals for contacts	
Insulation						
nsulation resistance		50mΩ at 500VDC, 50	0%RH			
Dielectric strength	coil to contact	1500Vrms, 1min			<u>Options</u>	
open contacts		1500Vrms, 1min (Contact Gap ≥1.2mm for P674)			P674: Increased contact gap fo	r 80VDC
General Data						
Operating time	max.	15ms				
Release time	max.	10ms				
Electrical life	ops.	1.0 x 10 ⁵ (24VDC/45A)				
dechanical life (no load) ops. 1 x 10 ⁷						
Environmental						
Ambient temperature operating		-55 to +85°C				
	storage	-40 to +130°C				
Shock resistance functional destructive		I 10g 11ms				
		100g				
Vibration resistance		DA 1.5mm 10-55Hz				
Dimensions L x W x H		32.2 x 27.5 x 28mm			* UL For DC loads only.	
Weight	approx.	32g				

DG38L 011322FW

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



Coil Data Table 1								
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10% at 23°C	Must operate voltage max. at 23°C (VDC)	Must release voltage min. at 23°C (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 ±15%	36.00	4.8				





