

DX85 inrush pcb power relay

DURAKOOL



- miniature pcb power relay
- 16A @ 28VDC or 230VAC
- up to 80A inrush (20ms)
- AgSnO₂ Contacts
- lamp & capacitive loads
- RoHS Compliant



Contacts

Contact number & arrangement	SPST-NO (1 N/O) (1 form A)	
Contact material	AgSnO ₂	
Max. switching voltage	AC/DC	440VAC / 125VDC
Max. switching power	AC1	4000VA
Min. switching current / voltage	10mA/12VDC	
Rated load	AC1	16A, 250VAC (600ops/hr)
	AC3	750W (single phase motor)
	DC1	16A, 30VDC
Max. inrush current	80A (20ms) Consult factory for other loads	
Initial resistance	≤ 100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	5...110V
Must release voltage	DC	≥ 0.1Un
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	400mW

Insulation

Insulation resistance	≤ 1000MΩ at 500VDC, 50%RH	
Dielectric strength	coil to contact	5000Vrms, 1min
	contact to contact	1000Vrms, 1min

General Data

Operating time (typical)	mS	≤ 15ms
Release time (typical)	mS	≤ 8ms
Electrical Life	ops	≥ 1 x 10 ⁵ (16A 250VAC, AC1 / DC1 @ 600 ops/hr)
Mechanical life	ops	≥ 1 x 10 ⁷
Dimensions	L x W x H	29 x 12.7 x 15.7mm
Weight	13.5g	
Ambient temperature	storage	-40 to 85°C
	operating	-40 to 85°C
Shock resistance	Functional: 100m/s ² ; Destructive: 1000m/s ²	
Vibration resistance	DA 1.5mm 10-55Hz	

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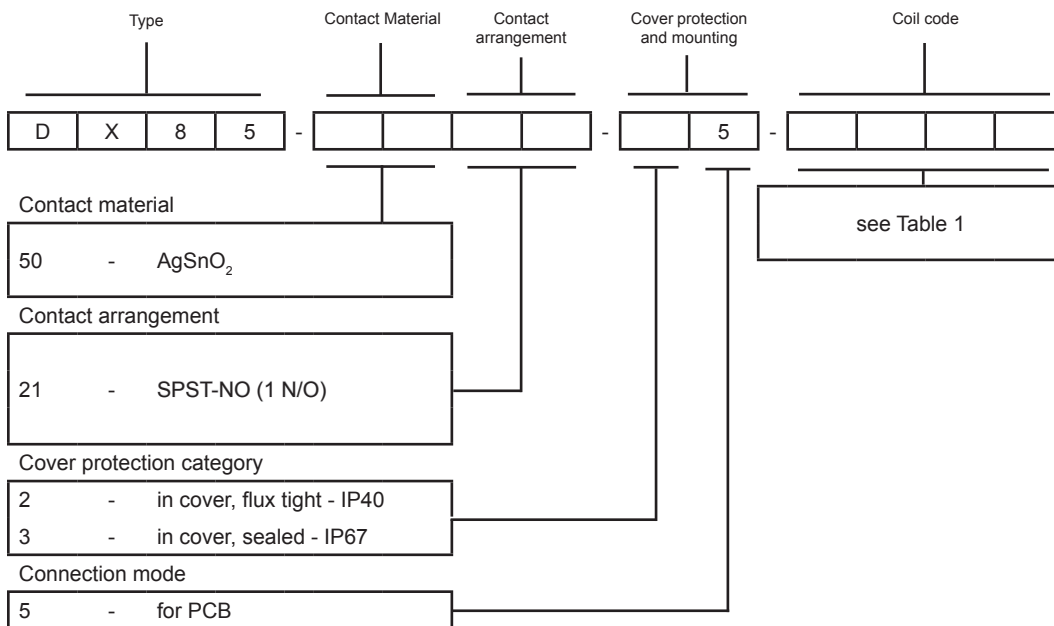


Coil Data (DC voltage 400mW)

Table 1

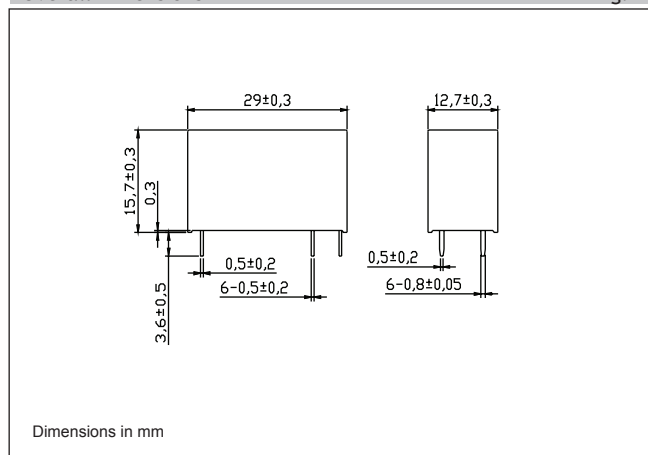
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1005	5	62	3.5	0.5
1006	6	90	4.2	0.6
1009	9	202	6.3	0.9
1012	12	360	8.4	1.2
1018	18	810	12.6	1.8
1024	24	1440	16.8	2.4
1048	48	5760 $\pm 15\%$	33.6	4.8
1060	60	7500 $\pm 15\%$	42.0	6.0
1110	110	25200 $\pm 15\%$	77.0	11.0

Ordering codes



Overall Dimensions

Fig. 1



PCB Mounting Dimensions

Fig. 2

