

DX85V

pcb power relay

DURAKOOL



- miniature pcb power relay
- Up to 20A @ 28VDC or 230VAC
- industry standard style
- Cost effective
- RoHS Compliant

Contacts

Contact number & arrangement	SPST-NO (1 N/O)
Contact material	AgNi 90/10, AgSnO ₂
Max. switching voltage	AC/DC 440VAC / 125VDC
Max. switching power	5000VA
Min. switching current / voltage	100mA/12VDC
Rated load	AC1 20A, 250VAC DC1 20A, 30VDC
Initial resistance	100mΩ, max. at 0.1A/6VDC

Coil

Rated voltage	DC 5...110V
Must release voltage	DC $\geq 0.1U_n$
Operating range of supply voltage	See coil table 1
Rated power consumption	DC 400mW

Insulation

Insulation resistance	$\leq 1000M\Omega$ at 500VDC, 50%RH
Dielectric strength	
coil to contact	5000Vrms, 1min
contact to contact	1000Vrms, 1min

General Data

Operating time (typical)	mS $\leq 15ms$
Release time (typical)	mS $\leq 8ms$
Electrical Life	ops $\geq 1 \times 10^5$
Mechanical life	ops $\geq 1 \times 10^7$
Dimensions	L x W x H 41 x 12.7 x 15.7mm
Weight	16g
Ambient temperature	storage -40 to 125°C operating -40 to 125°C
Shock resistance	Functional: 100m/s ² ; Destructive: 1000m/s ²
Vibration resistance	DA 1.5mm 10-55Hz

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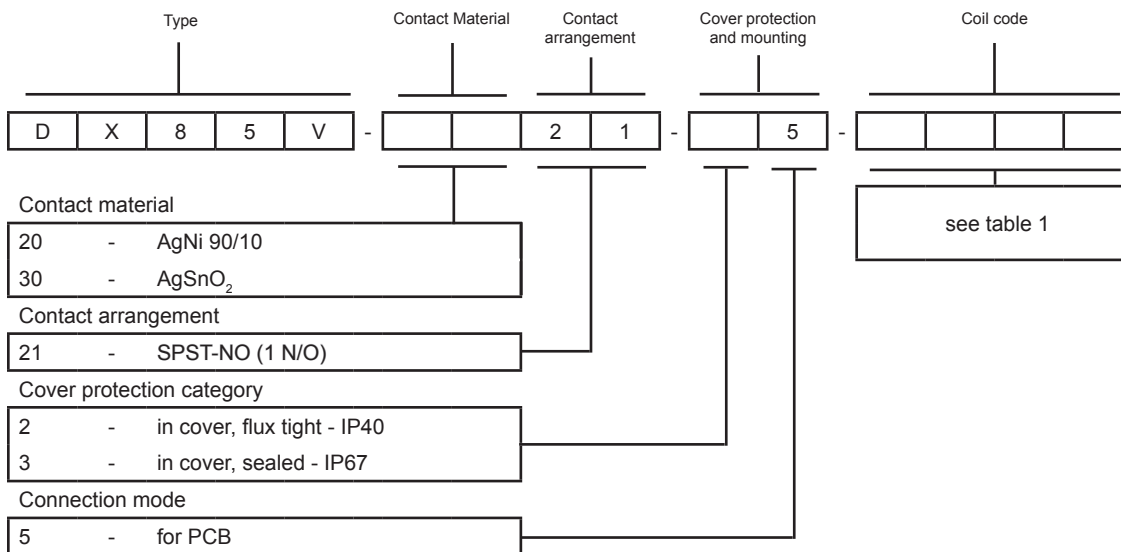
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Coil Data (DC voltage 400mW)

Table 1

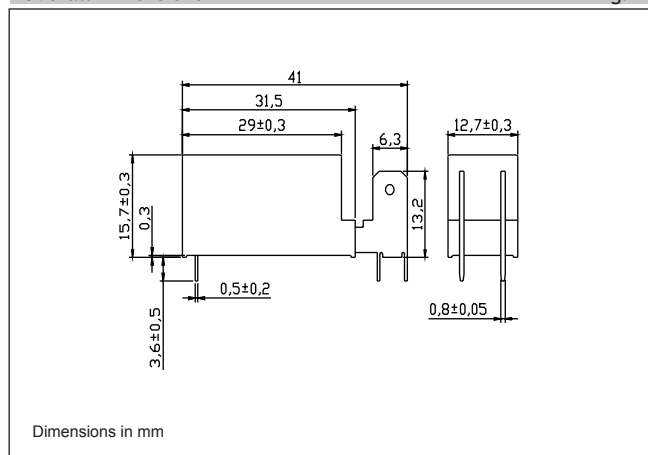
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1005	5	62	3.5	0.5
1006	6	90	4.2	0.6
1009	9	202	6.3	0.9
1012	12	360	8.4	1.2
1018	18	810	12.6	1.8
1024	24	1440	16.8	2.4
1048	48	5760 $\pm 15\%$	33.6	4.8
1060	60	7500 $\pm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

Ordering codes



Overall Dimensions

Fig. 1



PCB Mounting Dimensions

Fig. 2

