

# DM44

pcb power relay

# DURAKOOL



- miniature pcb power relay
- Up to 16A /277VAC rating SPST-NO
- Industry standard style
- 105°C Ambient operating temperature
- RoHS Compliant
- TV-8, 1HP/240VAC



## Contacts

Contact number & arrangement	SPST-NO (1 N/O), SPDT (1 C/O)	
Contact material	AgSnO <sub>2</sub>	
Max. switching voltage	AC/DC	277VAC / 30VDC
Min. switching current / voltage	1mA/1VDC	
Rated load	AC1	16A, 277VAC
	DC1	16A, 30VDC
Initial resistance	≤ 50mΩ, max. at 1A/6VDC	

## Coil

Rated voltage	DC	3...48V
Must release voltage	DC	≥ 0.1Un
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	0.54W

## 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, excluding bounce)	mS	≤ 10ms
Release time (typical, excluding bounce)	mS	≤ 8ms
Electrical Life	ops	≥ 1 x 10 <sup>5</sup> , at 105°C (Note 1)
Maximum operating frequency	Electrical: 30 ops/min / Mechanical: 300 ops/min	
Mechanical life	ops	≥ 1 x 10 <sup>7</sup>
Dimensions	L x W x H	29.2 x 12.8 x 20.6mm
Weight	13g	
Ambient temperature	storage	-40 to 105°C
	operating	-30 to 105°C
Humidity	RH	45 - 85%
Shock resistance	Functional: 98.1m/s <sup>2</sup> ; Destructive: 981m/s <sup>2</sup>	
Vibration resistance	DA 1.5mm 10-55Hz	

Note 1: Electrical life at 105°C, 16A/230VAC Resistive, 5s ON / 5s OFF

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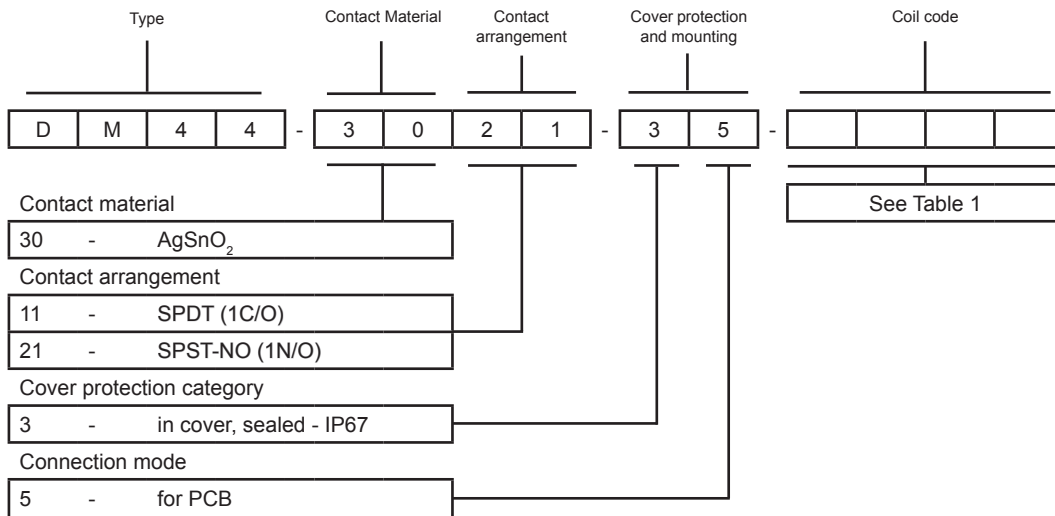
Coil Data (DC voltage)

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1003 <sup>1</sup>	3	17	2.25	0.3
1005	5	47	3.75	0.5
1006	6	68	4.50	0.6
1009	9	150	6.75	0.9
1012	12	270	9.00	1.2
1024	24	1100	18.00	2.4
1048	48	4400	36.00	4.8

<sup>1</sup>3VDC Coil not UL approved

Ordering codes



Dimensions

